

Vision Sciences Society

14th Annual Meeting, May 16-21, 2014
TradeWinds Island Resorts, St. Pete Beach, Florida

Program

Contents

Board, Committee, Founders & Staff . . . 2	Member-Initiated Symposia 28
President's Welcome 3	Abstract Numbering System 30
Meeting Schedule 4	Saturday Morning Talks 31
Schedule-at-a-Glance 6	Saturday Afternoon Talks. 37
Poster Schedule 8	Saturday Afternoon Posters 38
Welcome Reception 9	Sunday Morning Talks 43
Talk Schedule. 10	Sunday Morning Posters 44
Keynote Address. 11	Sunday Afternoon Talks 49
Davida Teller Award 12	Sunday Afternoon Posters 51
Save the Date 12	Monday Morning Talks 54
Elsevier/VSS	Monday Morning Posters. 55
Young Investigator Award 13	Tuesday Morning Talks 60
Elsevier/ <i>Vision Research</i>	Tuesday Morning Posters. 61
Travel Awards 14	Tuesday Afternoon Talks 67
VSS Public Lecture. 15	Tuesday Afternoon Posters. 69
Student and Postdoc Workshops. . . . 16	Wednesday Morning Talks 74
Satellite Events 18	Wednesday Morning Posters. 75
The Best Student Poster Awards 19	Topic Index 78
Attendee Resources 20	Author Index 81
Club Vision Dance Party 22	Poster Board Plans. 94
12th Annual Dinner and Demo Night. 23	TradeWinds Property Plan 96
Exhibitors 26	Advertisements 97

Program and Abstracts cover designs by
Mihaela Mitrovic, University of Vienna

T-shirt design by
Lukasz Grzeczowski, École polytechnique fédérale de Lausanne

Board, Committee, Founders & Staff

Board of Directors (Year denotes end of term)



Frans Verstraten
(2015) President
The University of
Sydney, Australia



Miguel Eckstein
(2014) Treasurer
University of Califor-
nia, Santa Barbara



Mary Hayhoe
(2016) President Elect
University of Texas,
Austin



Karl Gegenfurtner
(2014) Past President
Justus-Liebig Univer-
sität Giessen, Germany



Preeti Verghese
(2017) Treasurer Elect
Smith-Kettlewell Eye
Research Institute



Norma Graham
(2017) Columbia Uni-
versity



Julio Martinez
(2015) McGill Univer-
sity, Canada



Anthony Norcia
(2016) Stanford
University



Frank Tong
(2016) Vanderbilt
University

Founders

Ken Nakayama
Harvard University

Tom Sanocki
University of South
Florida

Executive Director

Shauney Wilson

Abstract Review Committee

David Alais
George Alvarez
Barton Anderson
Benjamin Backus
Irving Biederman
James Bisley
Geoff Boynton
Eli Brenner
Angela Brown
David Burr
Patrick Cavanagh
Leonardo Chelazzi
Marvin Chun
Christos
Constantinidis
Jody Culham
Steve Dakin
Karen Dobkins

Brad Duchaine
James Elder
Steve Engel
Jim Enns
Marc Ernst
Mark Greenlee
Julie Harris
Sheng He
John Henderson
Alex Huk
Anya Hurlbert
Alan Johnston
Phil Kellman
Daniel Kersten
Fred Kingdom
Rich Krauzlis
Bart Krekelberg
Margaret Livingstone

Zhong-Lin Lu
Laurence Maloney
Ennio Mingolla
Cathleen Moore
Shin'ya Nishida
Aude Oliva
Alice O'Toole
Christopher Pack
Jenny Read
Ruth Rosenholtz
Bruno Rossion
Dov Sagi
Jeff Schall
Brian Scholl
Aaron Seitz
David Sheinberg
Daniel Simons
Pawan Sinha

Josh Solomon
George Sperling
Jim Tanaka
Mike Tarr
Jan Theeuwes
Bosco Tjan
Rufin VanRullen
Rufin Vogels
Rüdiger
von der Heydt
William Warren
Takeo Watanabe
Michael Webster
Andrew Welchman
David Whitney
Yaffa Yeshurun
Cong Yu
Qasim Zaidi

Staff

Joan Carole
Shawna Lampkin
Jeff Wilson
Shelley Gallegos
Vince Gallegos
Linda Hacker
Cheryl Hoidal
Carol Jones
Julie Smith
Renee Smith
Rochelle Smith

President's Welcome

Welcome to our 14th Vision Sciences Society Annual Meeting

and welcome to the TradeWinds, our venue on St. Pete's Beach for at least 3 years. We, the members of the VSS board of directors, are excited about this new location and its surroundings. I hope you are as well.

One of the best parts of coming to VSS is the interaction: at the poster boards, after each talk, during breaks, and especially after the regular sessions end. At our new venue there are many places to meet. I'm convinced that this new location and its surroundings will spark discussions, creativity and establish new friendships.

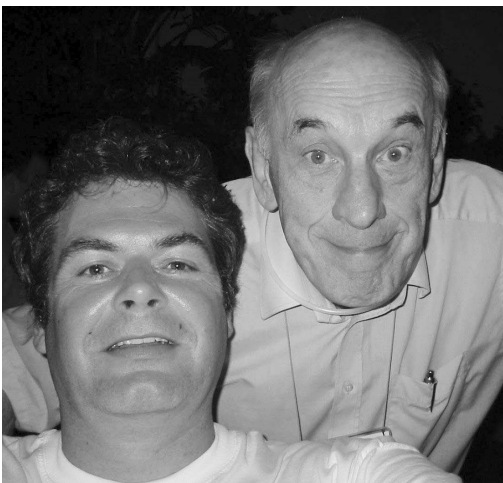
Of course, organizing a big conference at a new venue will have some imperfections, even with our rock-star organizers Shauney and Shawna. With their team they have again done a wonderful job, but the past has taught us that fine-tuning takes time. The first days will doubtless have its issues, especially since the lecture rooms are a bit smaller than in Naples, and we now have, for the first time since VSS's inception, over 2,000 attendees! If you feel that we can improve the conference, even if it is only a small detail, let us know. The conference is our conference, and together we make it a wonderful experience.

I also invite you all to come to our award sessions. This year's recipients are Molly Potter (Davida Teller Award) and Dujie Tadin (Elsevier/VSS Young Investigator Award). Moreover, our keynote speaker, Srinivasan, will blow your mind and I can promise you that it will fuel many discussions. Don't miss it!

So, I hope that our meeting will be a lively one and full of interaction; not only for the young, but also for the young at heart. This year one of our oldest members, but one with an exceptional young heart, passed away. Ian Howard was the best example of a leading scientist who knew how to make sure that scientists interact. Those who have been at his parties know what I mean. I feel sad that he will not be here in person, but happy that he will be present in our heart and discussions.

Enjoy!

Frans Verstraten
President, Vision Sciences Society 2014



Meeting Schedule

Wednesday, May 14

9:00 am - 5:00 pm Mathematical and Computational Models in Vision (MODVIS) (VSS Satellite) Horizons

Thursday, May 15

9:00 am - 5:00 pm Mathematical and Computational Models in Vision (MODVIS) (VSS Satellite) Horizons

4:00 - 7:00 pm Registration Open Grand Palm Colonnade

Friday, May 16

8:00 - 11:45 am Cambridge Research Systems Royal Tern

Technical Short Courses on Light Measurement and Display Characterisation (VSS Satellite)

9:00 - 11:45 am Hands-on Multi-user Interactive Snowy Egret

Virtual Reality (VSS Satellite)

9:00 - 11:45 am Mathematical and Computational Models in Vision (MODVIS) (VSS Satellite) Horizons

9:00 am - 7:00 pm Registration Open Grand Palm Colonnade

12:00 - 2:00 pm Symposium Sessions 1 Talk Room 1-2 and Pavilion

2:00 - 2:30 pm Coffee Break Grand Palm Colonnade, Garden Courtyard, and Pavilion

2:30 - 4:30 pm Symposium Sessions 2 Talk Room 1-2 and Pavilion

4:30 - 5:00 pm Coffee Break Grand Palm Colonnade, Garden Courtyard, and Pavilion

5:00 - 7:00 pm Symposium Sessions 3 Talk Room 1-2 and Pavilion

7:00 - 9:30 pm Opening Night Reception Beachside Sun Decks

Saturday, May 17

7:30 am - 6:45 pm Registration Open Grand Palm Colonnade

7:45 - 8:15 am Coffee & Continental Breakfast Grand Palm Colonnade and Garden Courtyard

8:15 - 9:45 am Talk Session Talk Room 1 & Talk Room 2

8:30 am - 12:30 pm Poster Session Jacaranda Hall, Banyan Breezeway, and Pavilion

8:30 am - 6:45 pm Exhibits Open Banyan Breezeway

9:45 - 10:30 am Coffee Break Grand Palm Colonnade, Garden Courtyard, and Pavilion

10:45 am - 12:30 pm Talk Session Talk Room 1 & Talk Room 2

11:00 am - 12:30 pm VSS Public Lecture The Dali Museum (off site)

12:30 - 2:30 pm Lunch Break

12:45 - 2:00 pm Individual Differences Satellite Horizons

Workshop (VSS Satellite)

1:00 - 2:00 pm VSS Workshop on Grantsmanship Snowy Egret

and Funding Agencies

2:30 - 4:15 pm Talk Session Talk Room 1 & Talk Room 2

2:45 - 6:45 pm Poster Session Jacaranda Hall, Banyan Breezeway, and Pavilion

4:15 - 5:00 pm Coffee Break Grand Palm Colonnade, Garden Courtyard, and Pavilion

5:15 - 6:45 pm Talk Session Talk Room 1 & Talk Room 2

7:15 - 8:15 pm Keynote Address - Mandyam V. Srinivasan, Ph.D. Talk Room 1-2

8:15 pm Cambridge Research Systems Snowy Egret

'25 Years in Vision Science' Party (VSS Satellite)

Sunday, May 18

7:30 am - 6:45 pm Registration Open Grand Palm Colonnade

7:45 - 8:15 am Coffee & Continental Breakfast Grand Palm Colonnade and Garden Courtyard

8:15 - 9:45 am Talk Session Talk Room 1 & Talk Room 2

8:30 am - 12:30 pm Poster Session Jacaranda Hall, Banyan Breezeway, and Pavilion

8:30 am – 6:45 pm	Exhibits Open	Banyan Breezeway
9:45 – 10:30 am	Coffee Break	Grand Palm Colonnade, Garden Courtyard, and Pavilion
10:45 am - 12:30 pm	Talk Session	Talk Room 1 & Talk Room 2
12:30 - 2:30 pm	Lunch Break	
1:00 - 2:00 pm	VSS Workshop for PhD Students and Postdocs: PNAS: How do I judge to which journal I should send my paper?	Snowy Egret
1:00 - 2:00 pm	VSS Workshop for PhD Students and Postdocs: How to Transition from Postdoc to Professor?	Royal Tern
2:30 – 4:15 pm	Talk Session	Talk Room 1 & Talk Room 2
2:45 – 6:45 pm	Poster Session	Jacaranda Hall & Banyan Breezeway
4:15 – 5:00 pm	Coffee Break	Grand Palm Colonnade and Garden Courtyard
5:15 – 7:15 pm	Talk Session	Talk Room 1 & Talk Room 2
8:00 - 10:00 pm	10th Annual Best Illusion of the Year Contest (VSS Satellite)	Pavilion

Monday, May 19

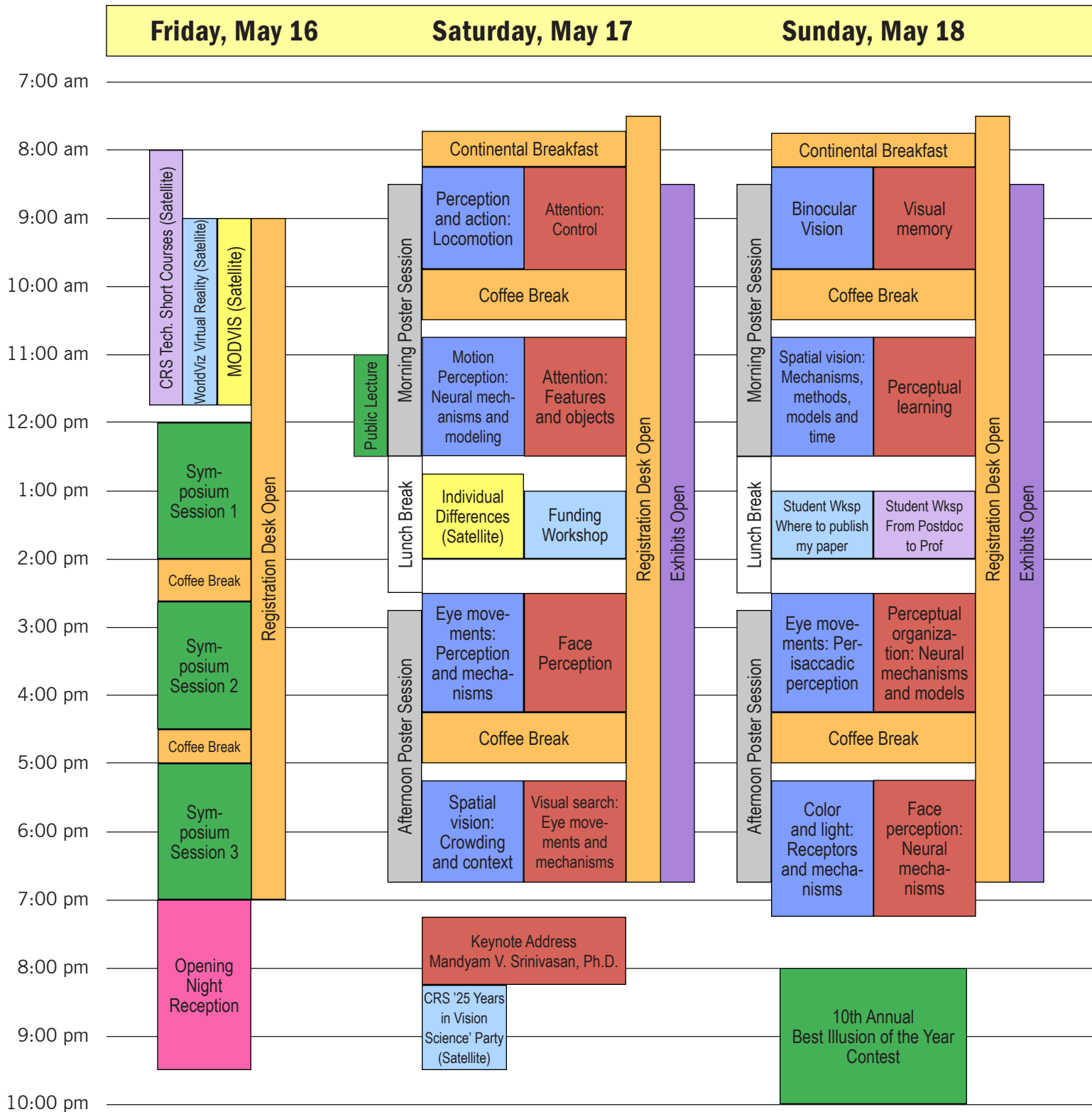
7:45 am - 1:30 pm	Registration Open	Grand Palm Colonnade
7:45 – 8:15 am	Coffee & Continental Breakfast	Grand Palm Colonnade and Garden Courtyard
8:15 – 9:45 am	Talk Session	Talk Room 1 & Talk Room 2
8:30 am – 12:30 pm	Poster Session	Jacaranda Hall, Banyan Breezeway, and Pavilion
8:30 am – 12:30 pm	Exhibits Open	Banyan Breezeway
9:45 – 10:30 am	Coffee Break	Grand Palm Colonnade, Garden Courtyard, and Pavilion
10:45 am - 12:15 pm	Talk Session	Talk Room 1 & Talk Room 2
12:30 - 1:30 pm	VSS Awards Session: Davida Teller & YIA Lectures	Talk Room 2
1:30 - 6:00 pm	Afternoon Off	
6:00 - 8:00 pm	Demo Night Beach BBQ	Beachside Sun Decks
7:00 - 10:00 pm	Demo Night Demos	Talk Room 1-2 and Royal Tern, Snowy Egret, Compass, and Spotted Curlew

Tuesday, May 20

7:45 am – 6:45 pm	Registration Open	Grand Palm Colonnade
7:45 – 8:15 am	Coffee & Continental Breakfast	Grand Palm Colonnade & Garden Courtyard
8:15 – 9:45 am	Talk Session	Talk Room 1 & Talk Room 2
8:30 am – 12:30 pm	Poster Session	Jacaranda Hall, Banyan Breezeway, and Pavilion
9:45 – 10:30 am	Coffee Break	Grand Palm Colonnade, Garden Courtyard, and Pavilion
10:45 am - 12:30 pm	Talk Session	Talk Room 1 & Talk Room 2
12:30 - 1:45 pm	Lunch Break	
12:30 - 1:45 pm	VSS Committees Lunch	Royal Tern
1:45 - 2:30 pm	Business Meeting	Talk Room 2
2:30 – 4:15 pm	Talk Session	Talk Room 1 & Talk Room 2
2:45 - 6:45 pm	Poster Session	Jacaranda Hall, Banyan Breezeway, and Pavilion
4:15 – 5:00 pm	Coffee Break	Grand Palm Colonnade, Garden Courtyard, and Pavilion
5:15 – 7:15 pm	Talk Session	Talk Room 1 & Talk Room 2
10:00 pm – 2:00 am	Club Vision Dance Party	Talk Room 2

Wednesday, May 21

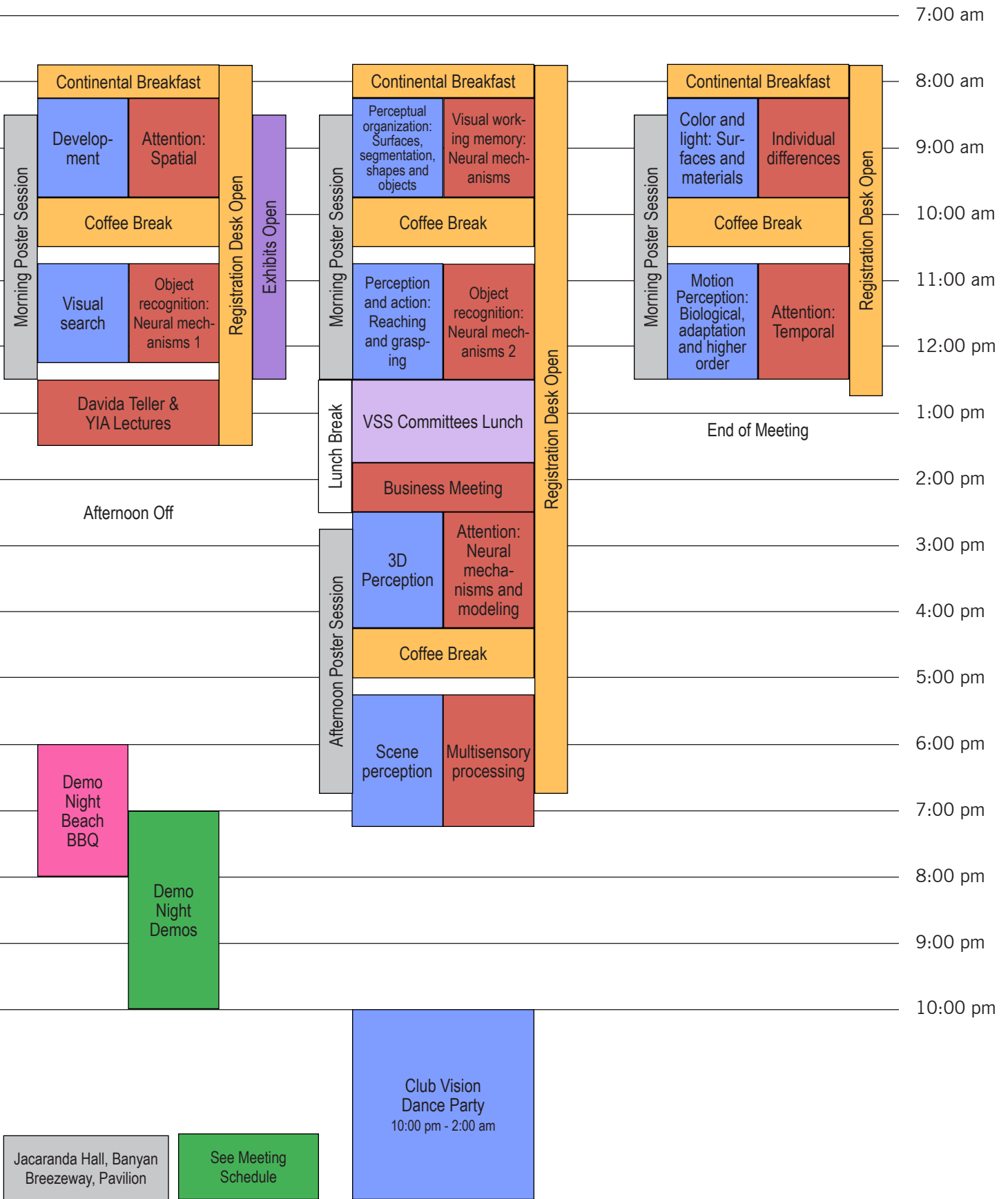
7:45 am – 12:45 pm	Registration Open	Grand Palm Colonnade
7:45 – 8:15 am	Coffee & Continental Breakfast	Grand Palm Colonnade and Garden Courtyard
8:15 – 9:45 am	Talk Session	Talk Room 1 & Talk Room 2
8:30 am – 12:30 pm	Poster Session	Jacaranda Hall and Banyan Breezeway
9:45 – 10:30 am	Coffee Break	Grand Palm Colonnade and Garden Courtyard
10:45 am – 12:30 pm	Talk Session	Talk Room 1 & Talk Room 2
12:30 pm	Meeting Ends	



Color Key:



Monday, May 19 **Tuesday, May 20** **Wednesday, May 21**



Jacaranda Hall, Banyan Breezeway, Pavilion

See Meeting Schedule

Club Vision Dance Party
10:00 pm - 2:00 am

Poster Schedule

Poster Setup and Takedown

All poster sessions are held in the Jacaranda Hall, Banyan Breezeway, Pavilion. The last three digits of your poster number indicate the number of your poster board.

Posters should be put up at the beginning of a session and taken down at the end. Authors of even numbered posters are expected to be present at their posters during the entire "Even Author Presents" time; and authors of odd numbered posters during the entire "Odd Author Presents" time. Authors may be present longer if desired.

Please be courteous and take down your poster promptly at the end of the session so that the board is empty when the next presenter arrives to put up his or her poster.

Push pins are available for your use and are located at the Meeting Registration Desk in the Grand Palm Colonnade.

Saturday Morning, May 17

Setup: 8:00 - 8:30 am

Session: 8:30 am - 12:30 pm

Even Authors Present: 9:15 - 10:15 am

Odd Authors Present: 10:15 - 11:15 am

Room: Jacaranda Hall

- Visual memory: Objects, features and individual differences
- Perceptual organisation: Neural mechanisms and models
- Perceptual organisation: Contours and surfaces

Room: Banyan Breezeway

- Color and light: Lightness and brightness
- Eye movements: Cognition
- Eye movements: Fixational

Room: Pavilion

- Face perception: Neural mechanisms
- 3D Perception: Space
- Visual memory: Mechanisms and models
- Object recognition: Reading
- Object recognition: Categories

Take down: 12:30 - 1:00 pm

Saturday Afternoon, May 17

Setup: 2:00 - 2:45 pm

Session: 2:45 - 6:45 pm

Even Authors Present: 3:45 - 4:45 pm

Odd Authors Present: 4:45 - 5:45 pm

Room: Jacaranda Hall

- Development: Lifespan
- Perceptual organization: Segmentation, shapes and objects

Room: Banyan Breezeway

- Motion Perception: Depth, higher order, illusions
- Motion Perception: Neural mechanisms

Room: Pavilion

- Perception and action: Neural mechanisms
- Attention: Capture
- Attention: Endogenous and exogenous
- Attention: Temporal
- Attention: Tracking
- Scene perception: Spatial and temporal factors

Take down: 6:45 - 7:00 pm

Sunday Morning, May 18

Setup: 8:00 - 8:30 am

Session: 8:30 am - 12:30 pm

Even Authors Present: 9:15 - 10:15 am

Odd Authors Present: 10:15 - 11:15 am

Room: Jacaranda Hall

- Perception and action: Reaching and grasping
- Multisensory processing: Visuo-auditory interactions

Room: Banyan Breezeway

- Color and light: Surfaces and materials
- Motion Perception: Models
- Motion Perception: Local motion and optic flow
- Eye movements: Pursuit

Room: Pavilion

- Attention: Reward and arousal
- Attention: Neural mechanisms and modeling
- Attention: Divided
- Attention: Individual differences
- Face perception: Identity
- Face perception: Whole and parts

Take down: 12:30 - 1:00 pm

Sunday Afternoon, May 18

Setup: 2:00 - 2:45 pm

Session: 2:45 - 6:45 pm

Even Authors Present: 3:45 - 4:45 pm

Odd Authors Present: 4:45 - 5:45 pm

Room: Jacaranda Hall

- Attention: Inattention blindness
- Attention: Neural mechanisms
- Attention: Memory, awareness and eye movements
- Spatial vision: Natural image statistics

Room: Banyan Breezeway

- Perceptual Learning: Plasticity and adaptation
- Development: Autism
- Development: Amblyopia

Take down: 6:45 - 7:00 pm

Monday Morning, May 19

Setup: 8:00 - 8:30 am

Session: 8:30 am – 12:30 pm

Even Authors Present: 9:15 – 10:15 am

Odd Authors Present: 10:15 – 11:15 am

Room: Jacaranda Hall

3D Perception: Shape from X

Eye movements: Saccade mechanisms and metrics

Eye movements: Natural tasks and environments

Room: Banyon Breezeway

Spatial vision: Crowding and eccentricity

Color and light: Adaptation and constancy

Perceptual organization: Grouping

Room: Pavilion

Face perception: Experience, learning and expertise 1

Perception and action: Decisions, interception

Visual memory: Encoding and retrieval

Scene perception: Categorization and memory

Scene perception: Summary statistics

Take down: 12:30 – 1:00 pm

Tuesday Morning, May 20

Setup: 8:00 - 8:30 am

Session: 8:30 am – 12:30 pm

Even Authors Present: 9:15 – 10:15 am

Odd Authors Present: 10:15 – 11:15 am

Room: Jacaranda Hall

Visual search: Attention

Visual Search: Models and theories

Perceptual learning: Methods and mechanisms

Room: Banyon Breezeway

Binocular Vision: Summation, interaction and disparity

Color and light: Neural mechanisms

Color and light: Cognition

Motion perception: Biological

Room: Pavilion

Attention: Spatial selection

Attention: Features

Attention: Objects

Visual search: Context and memory

Scene perception: Neural mechanisms

Multisensory processing: Neural mechanisms, somatosensory, vestibular

Take down: 12:30 – 1:00 pm

Tuesday Afternoon, May 20

Setup: 2:00 – 2:45 pm

Session: 2:45 – 6:45 pm

Even Authors Present: 3:45 – 4:45 pm

Odd Authors Present: 4:45 – 5:45 pm

Room: Jacaranda Hall

Temporal processing

Perceptual learning: Specificity and transfer

Room: Banyon Breezeway

Spatial vision: Models

Visual search: Eye movements

Eye movements: Perception and neural mechanisms

Eye movements: Perisaccadic perception

Room: Pavilion

Binocular Vision: Rivalry, competition and suppression

Face perception: Experience, learning and expertise 2

Face perception: Social cognition

Object recognition: Features and parts

Object recognition: Mechanisms and models

Take down: 6:45– 7:00 pm

Wednesday Morning, May 21

Setup: 8:00 - 8:30 am

Session: 8:30 am – 12:30 pm

Even Authors Present: 9:15 – 10:15 am

Odd Authors Present: 10:15 – 11:15 am

Room: Jacaranda Hall

Perception and action: Locomotion, wayfinding, space

Object recognition: General

Visual memory: Capacity and resolution

Room: Banyon Breezeway

Face perception: Emotions

Spatial vision: Neural mechanisms

Spatial vision: Texture

Face perception: Disorders, individual differences

Take down: 12:30 – 1:00 pm

Welcome Reception

Friday, May 16, 7:00 - 9:30 pm

Save Friday evening for the most spectacular VSS Welcome Reception ever! To celebrate our first year in St. Pete Beach, we are planning a very special opening night event. The reception will take place on the beach and beachside sundecks from 7:00 – 9:30 pm and will feature live music and an amazing Italian dinner. To top it off, at 9:00 pm, the City of St. Pete Beach will welcome VSS with a fabulous surprise that you won't want to miss. Don't forget your drink tickets*, which can be found in the back of your badge!

So, prepare to sink your toes into the sand and enjoy this fantastic event! Please remember to wear your badge.

*Drink tickets are good for both the reception and demo night.

Talk Schedule

Saturday, May 17

Time	Talk Room 1	Talk Room 2
8:15 – 9:45 am	Perception and action: Locomotion	Attention: Control
10:45 am – 12:30 pm	Motion Perception: Neural mechanisms and modeling	Attention: Features and objects
2:30 – 4:15 pm	Eye movements: Perception and mechanisms	Face Perception
5:15 – 6:45 pm	Spatial vision: Crowding and context	Visual search: Eye movements and mechanisms

Sunday, May 18

Time	Talk Room 1	Talk Room 2
8:15 – 9:45 am	Binocular Vision	Visual memory
10:45 am – 12:30 pm	Spatial vision: Mechanisms, methods, models and time	Perceptual learning
2:30 – 4:15 pm	Eye movements: Perisaccadic perception	Perceptual organization: Neural mechanisms and models
5:15 – 7:15 pm	Color and light: Receptors and mechanisms	Face perception: Neural mechanisms

Monday, May 19

Time	Talk Room 1	Talk Room 2
8:15 – 9:45 am	Development	Attention: Spatial
10:45 am – 12:15 pm	Visual search	Object recognition: Neural mechanisms 1

Tuesday, May 20

Time	Talk Room 1	Talk Room 2
8:15 – 9:45 am	Perceptual organization: Surfaces, segmentation, shapes and objects	Visual working memory: Neural mechanisms
10:45 am – 12:30 pm	Perception and action: Reaching and grasping	Object recognition: Neural mechanisms 2
2:30 – 4:15 pm	3D Perception	Attention: Neural mechanisms and modeling
5:15 – 7:15 pm	Scene perception	Multisensory processing

Wednesday, May 21

Time	Talk Room 1	Talk Room 2
8:15 – 9:45 am	Color and light: Surfaces and materials	Individual differences
10:45 am – 12:30 pm	Motion Perception: Biological, adaptation and higher order	Attention: Temporal

Speaker Information

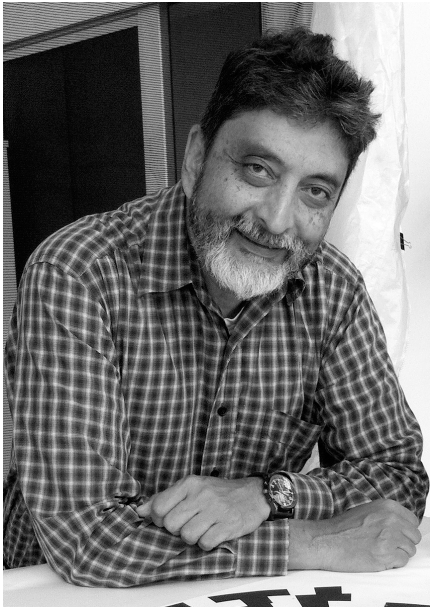
Please arrive at the Ballroom no less than 30 minutes before the start of your session. Presenters are welcome to test their presentations between talk sessions. Please give priority to presenters whose talk is scheduled for the subsequent session.

The meeting rooms are equipped with a data/video projector and a projection screen. Presentations can be made from your Mac or PC laptop. A technician will be present in each room to handle any technical problems that may arise.

Keynote Address

Mandyam V. Srinivasan, Ph.D.

Queensland Brain Institute and School of Information Technology and Electrical Engineering University of Queensland



Srinivasan's research focuses on the principles of visual processing, perception and cognition in simple natural systems, and on the application of these principles to machine vision and robotics. He holds an undergraduate degree in Electrical Engineering from Bangalore University, a Master's degree in Electronics from the Indian Institute of Science, a Ph.D. in Engineering and Applied Science from Yale University, a D.Sc. in Neuroethology from the Australian National University, and an Honorary Doctorate from the University of Zurich. Srinivasan is presently Professor of Visual Neuroscience at the Queensland Brain Institute and the School of Information Technology and Electrical Engineering of the University of Queensland. Among his awards are Fellowships of the Australian Academy of Science, of the Royal Society of London, and of the Academy of Sciences for the Developing World, the 2006 Australia Prime Minister's Science Prize, the 2008 U.K. Rank Prize for Optoelectronics, the 2009 Distinguished Alumni Award of the Indian Institute of Science, and the Membership of the Order of Australia (AM) in 2012.

More Than a Honey Machine: Vision and Navigation in Honeybees and Applications to Robotics

Saturday, May 17, 7:15 pm, Talk Room 1-2

Flying insects are remarkably adept at seeing and perceiving the world and navigating effectively in it, despite possessing a brain that weighs less than a milligram and carries fewer than 0.01% as many neurons as ours does. Although most insects lack stereo vision, they use a number of ingenious strategies for perceiving their world in three dimensions and navigating successfully in it.

The talk will describe how honeybees use their vision to stabilize and control their flight, and navigate to food sources. Bees and birds negotiate narrow gaps safely by balancing the apparent speeds of the images in the two eyes. Flight speed is regulated by holding constant the average image velocity as seen by both eyes. Visual cues based on motion are also used to compensate for crosswinds, and to avoid collisions with other flying insects. Bees landing on a surface hold constant the magnitude of the optic flow that they experience as they approach the surface, thus automatically ensuring that flight speed decreases to zero at touchdown. Foraging bees gauge distance flown by integrating optic flow: they possess a visually-driven 'odometer' that is robust to variations in wind, body weight, energy expenditure, and the properties of the visual environment. Mid-air collisions are avoided by sensing cues derived from visual parallax, and using appropriate flight control maneuvers.

Some of the insect-based strategies described above are being used to design, implement and test biologically-inspired algorithms for the guidance of autonomous terrestrial and aerial vehicles. Application to manoeuvres such as attitude stabilization, terrain following, obstacle avoidance, automated landing, and the execution of extreme aerobatic manoeuvres will be described.

This research was supported by ARC Centre of Excellence in Vision Science Grant CE0561903, ARC Discovery Grant DP0559306, and by a Queensland Smart State Premier's Fellowship



Keynote Address is sponsored by Cambridge Research Systems
Visit www.crstltd.com to listen again.

Davida Teller Award

Mary C. Potter

Department of Brain and Cognitive Sciences, MIT



Dr. Mary Potter, better known as Molly Potter, a professor of Psychology at the Massachusetts Institute of Technology, is the winner of the Davida Teller Award 2014. Potter is known for her fierce intellect, her deeply original experiments, and her fundamental discoveries about human cognition.

A few highlights:
Already in 1975, Potter

discovered that subjects can report conceptual information about a pictured object faster than they can name it, showing that it is not necessary to access the verbal label to understand the meaning of an object. Later she discovered that complex visual scenes can be perceived and understood much faster than anyone had previously recognized. She showed that subjects can identify the gist of a scene from an astonishingly brief presentation. Here Potter made innovative use of rapid serial visual presentation (RSVP).

Detecting picture meaning in extreme conditions

Monday, May 19, 12:30 pm, Talk Room 2

What is the shortest presentation duration at which a named scene or object can be recognized above chance, when the scene is presented among other pictures in a short RSVP sequence? In a recent study (Potter, Wyble, Haggmann, & McCourt, 2014) presentation durations were blocked and dropped slowly from 80 ms to 53, 27, and 13 ms. Although d' declined as duration shortened, it remained above chance even at 13 ms, whether the name was given just before or just after the sequence, and whether there were 6 or 12 pictures per sequence. A forced choice between two pictures at the end of each sequence was reliably above chance only if the participant had correctly said yes. New replications varied the method but gave similar results: 1) using grayscale sequences; 2) randomizing all the nontarget pictures across all trials, for each subject; 3) randomizing durations instead of blocking them; and 4) using a different set of pictures with superordinate or basic object names for targets. Whether these results indicate feedforward processing (as we suggest) or are accounted for in some other way, they represent a challenge to models of visual attention and perception.



Save the Date...

VSS 2015
May 15-20, 2015

TradeWinds Island Resorts
St. Pete Beach, Florida



Young Investigator Award

Duje Tadin

Associate Professor, Department of Brain and Cognitive Sciences, Center for Visual Science, Department of Ophthalmology, University Of Rochester



Trained at Vanderbilt, Duje Tadin was awarded the PhD. in Psychology in 2004 under the supervision of Joe Lappin. After 3 years of post-doctoral work in Randolph Blake's lab, he took up a position at the University of Rochester, where he is currently an associate professor.

Duje's broad research goal is to elucidate neural mechanisms

that lead to human visual experience. He seeks converging experimental evidence from a range of methods, including human psychophysics, computational modeling, transcranial magnetic stimulation (TMS), neuroimaging, research on special populations, collaborations on primate neurophysiology, and adaptive optics to control retinal images.

Duje is probably best known for his elegant and illuminating research on spatial mechanisms of visual motion perception—work that has had a lasting impact on the field. He developed a new method to quantify motion perception using brief, ecologically relevant time scales, and then used it to discover a functionally important phenomenon of spatial suppression: larger motion patterns are paradoxically more difficult to see. Duje's results revealed joint influences of spatial integration and segmentation mechanisms, showing that the balance between these two competing mechanisms is not fixed but varies with visibility, with spatial summation giving way to spatial suppression as visibility increases.

He has also made significant contributions to several high-profile papers dealing with binocular rivalry, rapid visual adaptation, multi-sensory interactions, and visual function in individuals with low-vision and children with autism.

Suppressive neural mechanisms: from perception to intelligence

Monday, May 19, 12:30 pm, Talk Room 2

Perception operates on an immense amount of incoming information that greatly exceeds brain's processing capacity. Because of this fundamental limitation, our perceptual efficiency is constrained by the ability to suppress irrelevant information. Here, I will present a series of studies investigating suppressive mechanisms in visual motion processing, namely perceptual suppression of large, background-like motions. We find that these suppressive mechanisms are adaptive, operating only when the sensory input is sufficiently strong to guarantee visibility. Utilizing a range of methods, we link these behavioral results with inhibitory center-surround receptive fields, such as those in cortical area MT.

What are functional roles of spatial suppression? Spatial suppression is weaker in old age and schizophrenia—as evident by paradoxically better-than-normal performance in some conditions. Moreover, these subjects also exhibit deficits in figure-ground segregation, suggesting a functional connection. In recent studies, we report direct experimental evidence for a functional link between spatial suppression and figure-ground segregation.

Finally, I will argue that the ability to suppress information is a fundamental neural process that applies not only to perception but also to cognition in general. Supporting this argument, we find that individual differences in spatial suppression of motion signals strongly predict individual variations in WAIS IQ scores ($r = 0.71$).

Elsevier/ *Vision Research* Travel Awards



VSS congratulates this year's recipients of the 2014 Elsevier/ *Vision Research* Travel Awards.

Carrie Bailey

Victoria University of Wellington, New Zealand
Advisor: Steven Prime

Antoine Barbot

Department of Psychology,
New York University
Advisor: Marisa Carrasco

Ben de Haas

University College London
Advisor: Geraint Rees

Chaz Firestone

Yale University
Advisors: Frank Keil and Brian Scholl

Sebastian Frank

Dartmouth College
Advisor: Peter Tse

Sara Garcia

UCL Institute of Ophthalmology
Advisors: Dr. Marko Nardini and Prof. Gary Rubin

Liu Liu

McGill University & Montreal Neurological Institute
Advisor: Christopher Pack

Delphine Massendari

Aix-Marseille Université, CNRS, UMR 7290, Laboratoire de
psychologie cognitive, France
Advisor: Françoise Vitu

Kimberly Meier

University of British Columbia
Advisor: Deborah Giaschi

David Alex Mély

Brown Institute for Brain Science, Brown University
Advisor: Thomas Serre

Stefania Moro

Centre for Vision Research, York University
Advisor: Jennifer Steeves

Zoe Oliver

Bangor University, UK
Advisor: Charles Leek

Stefanie Peykarjou

Heidelberg University and Université Catholique de Louvain, Belgium
Advisors: Sabina Pauen and Bruno Rossion

Mahalakshmi Ramamurthy

Human Vision Lab, Department of Brain Sciences, UMass Boston
Advisor: Erik Blaser

Mehdi Senoussi

CerCo, CNRS UMR 5549 and Université Paul Sabatier, Toulouse, France
Advisors: Leila Reddy and Rufin VanRullen

Manuel Spitschan

University of Pennsylvania
Advisors: David H. Brainard and Geoffrey K. Aguirre

Edgar Walker

Baylor College of Medicine, Department of Neuroscience
Advisors: Andreas Tolias and Wei Ji Ma

Emily Ward

Yale University
Advisors: Marvin Chun and Brian Scholl

Jonathan R. Williford

Department of Neuroscience, Johns Hopkins University, School of Medicine
Advisor: Rudiger von der Heydt

Qing Yu

Department of Psychological and Brain Sciences, Dartmouth College
Advisor: Won Mok Shim

VSS Public Lecture

Thomas V. Papathomas

Rutgers University



Thomas V. Papathomas, a Professor and Dean at Rutgers, the State University of New Jersey, studies how humans perceive objects, faces and scenes. He has authored over 100 scientific publications, has designed award-winning 3-D illusions and has exhibited in art/science shows and science museums.

Vision Research: Artists Doing Science - Scientists Doing Art

Saturday, May 17, 11:00 am - 12:30 pm
The Dali Museum, St. Petersburg, Florida

It has often been said that artists are years ahead of vision scientists in making progress toward understanding how the visual brain works. This talk will illustrate how artists have been able to use their intuitive grasp of visual perception fundamentals to open new horizons in research. At the same time, the talk will highlight how visual scientists have used their research-based knowledge of visual brain function to provide a deep understanding of the art experience and, occasionally, venture into making art.

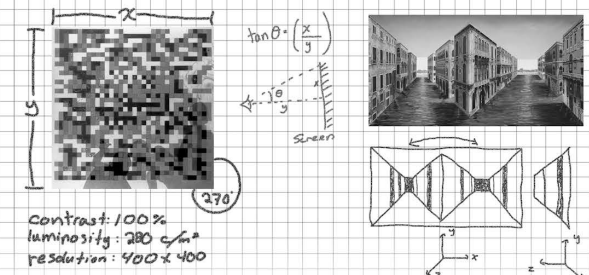
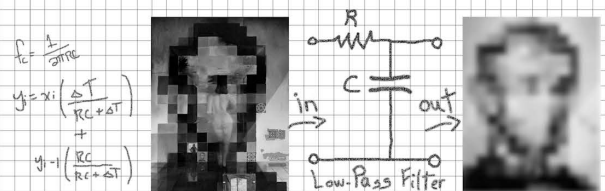
VSS PUBLIC LECTURE AT THE DALÍ MUSEUM

SATURDAY, MAY 17, 11:00 A.M. - 12:30 P.M.

Vision Research:

Artists doing *Science*
Scientists doing **Art**

Speaker: **Dr. Thomas Papathomas**
Rutgers University



THE DALÍ MUSEUM, ONE DALÍ BLVD, ST. PETERSBURG, FL 33701
FREE ADMISSION - LIMITED SEATING

Student and Postdoc Workshops

VSS Workshop for PhD Students and Postdocs: PNAS: How do I judge to which journal I should send my paper

Sunday, May 18, 1:00 - 2:00 pm, Room TBA

Moderator: Frans Verstraten

Introduction: Sandra Aamodt

Discussants: Heinrich Bülthoff, Nancy Kanwisher, & Concetta Morrone

PNAS... Post Nature And Science. We all think we do excellent research and great results deserve a great outlet. How many of us have wandered the whole route from all the top ranked journals, only to end up in an average journal? Wouldn't it be good if we could only judge the journal to go for immediately? It saves the disappointment of not being sent out for review, rejection, and the energy needed to once more having to rewrite the manuscript. Moreover, what is wrong with an average journal for your output? We will discuss some of the ways to convince the editors of high profile journals to at least send your manuscript out for review. We will hear some good and bad experiences and hope to conclude with some realistic advice...



Sandra Aamodt

Sandra is a coauthor of *Welcome to Your Child's Brain: How the Mind Grows from Conception to College* and *Welcome to Your Brain: Why You Lose Your Car Keys But Never Forget How to Drive and Other Puzzles of Everyday Life*, which was named science book of the year in 2009 by the American Association for the Advancement of Science. A former editor in chief of *Nature*

Neuroscience, she has read over 5000 neuroscience papers in her career. Before joining the journal, she received a Ph.D. in neuroscience from the University of Rochester and did postdoctoral research at Yale University.



Heinrich Bülthoff

Heinrich is director at the Max Planck Institute for Biological Cybernetics in Tübingen. He is head of the Department Human Perception, Cognition and Action in which a group of about 70 researchers investigate psychophysical and computational aspects of higher level visual processes in object and face recognition, sensory-motor integration, human robot interaction, spatial

cognition, and perception and action in virtual environments. He is Honorary Professor at the Eberhard-Karls-Universität (Tübingen) and Korea University (Seoul). He is co-founder of the journal *ACM Transactions on Applied Perception (ACM TAP)* and on the editorial boards of several open access journals. He has not published in *Nature Journals* for more than ten years..



Nancy Kanwisher

Nancy is the Walter A. Rosenblith Professor of Cognitive Neuroscience in the Department of Brain and Cognitive Sciences at the M.I.T. She is interested in the functional organization of the brain as a window into the architecture of the human mind. Her work and that of her students have been published in some of the best journals. She has, however, her ideas about this... She is also a

member of the National Academy of Sciences (USA).



Concetta Morrone

Concetta is Professor of Physiology at University of Pisa. Over the years her research has spanned most active areas of vision research, including spatial vision, development, plasticity, attention, color, motion, robotics, vision during eye movements and more recently multisensory perception and action. Concetta has published some 160 publications in excellent inter-

national peer-review journals, including *Nature* and her sister journals, *Neuron*, *Current Biology* and several *Trends in Journals*. She has been editor of many journals and was one of the founding editors of the *Journal of Vision*, and currently she is Chief Editor and founder of the journal "*Multisensory Research*" (the continuation of "*Spatial Vision*").



Frans Verstraten

Frans is the MacCaughey Chair of Psychology at the University of Sydney. So far he has never made it into *Nature* or *Science* and if Bayes was right, he probably never will. His task is to facilitate the discussion. He has served on several editorial boards and is currently one of the editors-in-chief of *Perception* and *i-Perception*.

***No registration is required to attend these sessions. Seating is on a first come; first served basis.**

VSS Workshop for PhD Students and Postdocs: How to Transition from Postdoc to Professor?

Sunday, May 18, 1:00 - 2:00 pm, Room TBA

Moderator: Frank Tong

Discussants: Julie Golomb, Sam Ling, Joo-Hyun Song, and Jeremy Wilmer

You're really excited by all of the research you're doing in the lab.... Ahh, the freedom to explore, discover, and focus just on doing good science. But at the back of your mind, you find yourself thinking, "When should I strike out on my own and apply for faculty positions, so I can start my own lab?"

So, when is the right time? What should your CV look like, so your application will attract the attention of the search committee? How will you craft your research statement to convey the importance of your work? Once you are invited to interview, how will you prepare for the big day, what should you expect in your individual meetings, what kinds of questions might people ask? Most important, how will you structure and stylize your job talk to excite everyone in the department about your research program?

We will hear the advice and learning experiences of assistant professors who recently made the transition from postdoc to faculty member. Much of this seminar will focus on how to put your best face forward when applying for faculty positions, from CV to negotiating the details of the position. We will have an open discussion of what qualities departments often look for in top candidates. We will also hear about the joys and challenges of starting a new lab, teaching courses for the first time, finding the right people for the lab family, and what life is like as a new faculty member.



Julie Golomb

Julie is an Assistant Professor in the Department of Psychology and Center for Cognitive and Brain Sciences at the Ohio State University. Her research focuses on how objects and their spatial locations are perceived and coded in the brain, and how these representations are influenced by eye movements, shifts of attention, and other top-down factors. Julie received her PhD from Yale

University in 2009 and did a postdoc at MIT before starting her faculty position in 2012. She was recently selected as a 2014 Sloan Research Fellow in Neuroscience.



Sam Ling

Sam is an Assistant Professor of Psychology at Boston University. His research focuses on neural mechanisms of visual perception (e.g., orientation perception, contrast sensitivity, binocular rivalry) and the top-down effects of attention on visual processing. He received his PhD from New York University in 2007 and pursued postdoctoral research at Vanderbilt University

before beginning his current faculty position in 2014.



Joo-Hyun Song

Joo-Hyun is an Assistant Professor in the Department of Cognitive, Linguistic & Psychological Sciences at Brown University. She investigates the mechanisms involved in integrating higher-order cognitive processes, such as attention, decision making and visually guided actions, through a combination of methodologies including behavioral investigations, online action tracking,

fMRI, EEG, and neurophysiological experiments. She received her PhD from Harvard University (2006) and pursued postdoctoral research at the Smith-Kettlewell Eye Research Institute (2006-2010) before beginning her current faculty position in 2010.



Jeremy Wilmer

Jeremy is an Assistant Professor of Psychology at Wellesley College. He investigates clinical and non-clinical human variation in cognitive and perceptual abilities to gain insights into their genetic and environmental influences, functional organization, and practical correlates. His experiences include several years of running a lab at an undergraduate-only, single-sex

liberal arts college. He received his PhD in 2006, pursued postdoctoral research at University of Pennsylvania and SUNY College of Optometry, before beginning his current faculty position in 2009.



Frank Tong

Frank Tong is a Professor of Psychology at Vanderbilt University. He is interested in understanding the fundamental mechanisms underlying visual perception, attention, object processing, and visual working memory. He has received multiple awards for his research advances, in particular for his work on fMRI decoding of visual and mental states. He particularly enjoys

working with students and postdocs as they carve their path towards scientific discovery and independence, and currently serves as a VSS board member.

Satellite Events

Mathematical and Computational Models in Vision (MODVIS)

Wednesday, May 14 - Friday, May 16, Horizons
Wednesday & Thursday 9:00 am - 5:00 pm
Friday 9:00 - 11:45 am

Organizers: Jeff Mulligan, NASA Ames Research Center
Zyg Pizlo, Purdue University Qasim Zaidi, SUNY College of Optometry

Abstract submission for the third VSS satellite workshop on Computational and Mathematical Models in Vision (MODVIS) is now open.

Submissions will be considered on a first-come first-served basis, until the program is full or the early registration deadline of April 1st has passed, whichever comes first. The revised submission system is simple and transparent. Registration rates are the same as last year: \$80 regular, \$40 student on or before April 1st, and \$100/\$50 after.

MODVIS 2014 will be held immediately prior to the VSS meeting in St. Pete Beach, May 14-16. More information can be found on the workshop's website: <http://www.conf.purdue.edu/modvis/>

Cambridge Research Systems Technical Short Courses on Light Measurement and Display Characterisation

Friday, May 16, 8:00 - 11:45 am, Royal Tern

Organizers: Caterina Ripamonti, Tom Robson and Jakob Thomassen, Cambridge Research Systems

Cambridge Research Systems are pleased to announce the availability of two new short courses devoted to practical aspects of vision research. The "Measuring Light and Managing Colour" and "Display Devices and their Characterisation for Vision Research" courses include a mixture of lecture material, demonstrations created with MATLAB and Psychtoolbox, and an opportunity to use a variety of test equipment. The courses will be led by Caterina Ripamonti, Tom Robson and Jakob Thomassen.

The courses will be offered for the first time in 2014 as an official VSS 2014 Satellite event; they are free and open to all VSS attendees. Registration is not compulsory but highly recommended, as spaces are limited.

To register, please email enquiries@crsltd.com and indicate which courses you would like to attend (you can register for both events).

The short courses will take place on Friday 16th May 2014, at the VSS conference venue: the TradeWinds Island Resorts, St. Pete Beach, Florida. The courses will start at 8am and finish at 12 noon. Drinks and snacks will be provided.

To find out more, please visit: <http://www.crsltd.com/technical-short-courses/>

Interactive Virtual Reality with Oculus Rift and Laptop

Friday, May 16, 9:00 - 11:45 am, Snowy Egret

Organizers: Matthias Pusch and Charlotte Li, WorldViz

In our first satellite event participants will interactively learn how to design and deploy a 3D consumer headset (i.e. Oculus Rift) and laptop-based multi-user interactive environment. The participants will be enabled to seeing each other in a virtual environment represented as avatars, and tossing each other virtual objects (balls). You will learn how to record data, and control key parameters such as visual elements, interaction methods, object speed, etc. using simple scripting.

The application will be created using the Vizard VR Toolkit. Vizard is a powerful Virtual Reality platform to help you create a new breed of visual simulations. With Vizard, users can build applications that provide the best experiences across virtual reality immersive technologies such as displays and sensors.

To register for this event, please fill out the form following below link. Seats will be assigned on a first-come first-serve basis. <http://www.worldviz.com/newsletter/vision-sciences-society-2014-satellite-event>.

Please come to the event prepared with an ethernet plug or dongle on your laptop - Windows operating system is required.

Individual Differences in Vision Brown Bag Lunch, v. 2.0

Saturday, May, 17, 12:45 - 2:00 pm, Horizons

Organizer: Jeremy Wilmer

Back this year: A whirlwind tour of the breadth of individual differences related work currently being conducted by VSS members. Bring your lunch. Identify colleagues with common interests and relevant expertise. Featuring "micro-talks" (2 slides, 2 minutes) from a wide range of content areas.

Cambridge Research Systems '25 Years in Vision Science' Party

Saturday, May, 17, 8:15 pm, Snowy Egret

Hosted by Cambridge Research Systems

Cambridge Research Systems has been in business since 1989. We would like to host a drinks reception for our customers to jointly celebrate our 25th Anniversary and the launch of our new Display++ stimulus display system.

The 10th Annual Best Illusion of the Year Contest

Sunday, May, 18, 8:00 - 10:00 pm, Pavilion
(Doors open at 7:30 pm)

Organizer: Susana Martinez-Conde, Neural Correlate Society

The Best Illusion of the Year Contest is a celebration of the ingenuity and creativity of the world's premier illusion creators. Contestants from all around the world have submitted novel illusions (unpublished, or published no earlier than 2013), and an international panel of judges has narrowed them to the TOP TEN. At the Contest Gala, the top ten illusionists will present their creations and the attendees of the event (that means YOU!) will vote to pick the TOP THREE WINNERS!

The 2014 Contest Gala will be hosted by world-renowned magician Mac King. Mac King is the premiere comedy magician in the world today, with his own family-friendly show, "The Mac King Comedy Magic Show," at the Harrah's Las Vegas. He was named "Magician of the Year" by the Magic Castle in Hollywood in 2003, and is a frequent guest and host of television specials.

Everybody is invited and families are welcome!

The Best Student Poster Awards

Sponsored by Cambridge Research Systems



The Best Student Poster Awards will be given to eight winners at VSS 2014. The awards (one for each poster session) will recognize the most outstanding student poster presented during each poster session at VSS.

Eligibility Requirements

All students presenting posters at VSS 2014 in an undergraduate or graduate program are eligible. Post-doctoral fellows are not eligible. Students wishing to participate must be the first author and presenting author on the submitted abstract.

Award Selection Process

Students who wish to be considered for the Best Student Poster Award must place a gold star on their board indicating their participation.

Attendees will vote for their favorite poster by placing a voting card in the ballot box. Ballot boxes are located in the Pavilion and in the hallway between Jacaranda Hall and Banyan Breezeway. You will receive your voting cards when you pick up your badge at the Registration Desk.

Attendees can vote only once per session. At the end of the session, votes will be tallied and a winner chosen.

Prize

Each award winner will receive a cash prize of \$100. Winning posters will be displayed in the Pavilion for the duration of the meeting. After the meeting, electronic versions of the winning posters will be posted on the Cambridge Research Systems Ltd website (www.crsLtd.com).

Attendee Resources

Abstract Book

A printed Abstract book is no longer provided to each attendee. Printed Abstract books are available for purchase for \$12, or you can download an electronic copy in PDF format from the VSS website. See the Registration Desk.

ATM

An ATM is located in the main lobby of the hotel. A second ATM can be found in the lobby of the Breckenridge Building.

Audiovisual Equipment for Talks

LCD projectors (e.g., for PowerPoint presentations) will be provided in the talk rooms; however, computers will NOT be provided. Presenters must bring their own computers and set them up BEFORE the start of the session in which they are presenting. We recommend that you test your presentation before your session.

A loaner PC is available for speakers. Please see the Registration Desk to make arrangements.

Baggage Check

Bags can be checked with the Bell Hop in the main lobby.

Business Center

The Business Center is located in the lobby. Computer terminals and a printer are available in the VSS Lounge, located in the Blue Heron meeting room on the second floor.

Certificates of Attendance

To receive a Certificate of Attendance, please visit the Registration Desk. If you require any changes, we will be happy to email/mail a copy after the meeting.

Children's Programs/Childcare

Both the TradeWinds Island Grand and Guy Harvey hotels feature an extensive array of programs and activities for children and families. From special events, games, and crafts designed for families, to childcare and camps just for kids, the resort has a program to fit every family's needs. For more information on the wide variety of kids programs, call the Adventure Center at (727) 363-2294 or check the TradeWinds Island Resort website www.tradewindsresort.com.

Activities Overview: www.tradewindsresort.com/recreation/kids

Daily Kid's Activities Calendar: www.tradewindsresort.com/kids-activities

Copying and Printing

Copy and fax services, as well as general use of printers is available at the Business Center for a fee. Boarding passes may be printed free of charge. Language translation and general secretarial services are also available for a fee.

A printer will be available in the VSS Lounge, located in the Blue Heron meeting room.

Disclaimer

The Program Committee reserves the right to change the meeting program at any time without notice. Please note that this program was correct at time of printing.

Duplication/Recording

Photography, audio taping, video recording, digital taping, or any other form of duplication, is strictly prohibited in the sessions and poster areas.

Exhibits

All exhibits are located in the Banyon Breezeway.

Exhibit Hours

Saturday, May 17, 8:30 am – 6:45 pm

Sunday, May 18, 8:30 am – 6:45 pm

Monday, May 19, 8:30 am – 12:30 pm

Exhibitor Setup and Teardown

Setup: Friday, May 16, 4:00 – 7:00 pm and/or Saturday, May 17, 7:00 – 8:00 am

Teardown: Monday, May 19, 12:30 – 2:00 pm

Fitness Center

The Fitness Center is open Monday through Friday from 6:00 am – 8:00 pm, and on weekends from 8:00 am – 5:00 pm. The Center is available to attendees staying at either of the TradeWinds hotels.

Food Service/Catering

Complimentary coffee and tea, and a light continental breakfast will be available each morning in the Grand Palm Colonnade and Garden Courtyard. Coffee, tea, and refreshments will also be served each afternoon between afternoon talk sessions.

VSS provides a reception and one dinner. The Opening Night Reception is held on Friday night and a beach barbecue is provided to all attendees on Monday nights' Demo Night. Each attendee will be given two free drink tickets, good on either night.

The VSS schedule gives a generous two-hour lunch period to take advantage of the beautiful surroundings and amenities of the TradeWinds Island Grand Hotel and the Guy Harvey Outpost.

Note: All VSS meeting attendees will receive a 20% discount on all food and beverage purchases in ALL TradeWinds Resort restaurants and bars. You must present your VSS badge to receive a discount.

The 20% discount does not apply to VSS bars at VSS events, such as the VSS Reception, Demo Night, and Club Vision, as discounted pricing has already been applied.

Guests

Guests are allowed complimentary entry into one VSS session to see the poster or talk of the person they are guests of at the meeting.

Guests must register at the VSS Registration Desk upon arrival and must be accompanied by a VSS attendee. Guests must wear their guest badge for entrance into the session they attend, and for social events as well.

Guests are welcome at all social functions (Club Vision, Friday Night Reception and Demo Night). Fees for guests to eat at Demo Night Beach Barbeque: Adults \$25; Youth 6-12 \$10; Children under 6 free.

Internet Access

VSS provides free wireless Internet access in the meeting areas and in all guest rooms. In the meeting areas, connect to **twgroup**; password is **group5500**.

If you did not bring your own computer, a limited number of laptop computers with free Internet access are available for your use in the VSS Lounge located in the Blue Heron room. A printer is also available in the Blue Heron room.

Lost and Found

Lost and found is located at the Registration Desk in the Grand Palm Colonnade.

Message Center

Messages for registrants can be left and retrieved at the Registration Desk. A bulletin board will be available in the Grand Palm Colonnade for announcements and job postings.

Moderators

Please arrive at the meeting room 30 minutes prior to the start of your session to allow time for setup and to check in with your speakers. Please see the Moderator instructions given to you when you checked in. Copies are available at the Registration desk.

Parking

Complimentary self-parking is available to all meeting attendees. Valet parking is available at the TradeWinds Island Grand lobby for an additional fee.

Phone Charging Station

A phone charging station is located at the Registration Desk.

Public Transportation

Suncoast Beach Trolley

The Suncoast Beach Trolley connects St. Pete Beach with Pass-a-Grill, Treasure Island, Clearwater and other beach communities along the coast. The trolley runs every 20 minutes from 5:00 am to 10:00 pm Monday through Thursday and 5:00 am to midnight Friday and Saturday. A bus stop is located directly outside the Tradewinds Resort.

Fare: \$2.00/ride

Central Avenue Trolley

The Central Avenue Trolley serves Central Avenue from The Pier in downtown St. Petersburg to Pass-A-Grille on St. Pete Beach.

Fare: \$2.00/ride

The Downtown Looper

Hop aboard the St. Petersburg Trolley Downtown Looper route to connect you to all the city's major museums and attractions. Runs every 15 minutes. Look for the bright red and yellow trolleys.

Fare: \$0.50/ride, Seniors & disabled: \$0.25/ride

Registration

The Registration desk is located in the Grand Palm Colonnade. The Registration desk will be open at the following times:

Friday, May 16, 9:00 am - 7:00 pm

Saturday, May 17, 7:30 am - 6:45 pm

Sunday, May 18, 7:30 am - 6:45 pm

Monday, May 19, 7:45 am - 1:30 pm

Tuesday, May 20, 7:45 am - 6:45 pm

Wednesday, May 21, 7:45 am - 12:45 pm

Restaurants and Bars at TradeWinds Island Grand

Cash and Go Lunches

The Tradewinds will offer a selection of reasonably-priced lunch items just for VSS attendees Saturday through Tuesday, 12:00 pm - 2:30 pm. Located in the Courtyard.

Palm Court Italian Grill

Located in the Courtyard area, the Palm Court features a fine dining experience with an extensive collection of wines, including many by the glass. Guests may eat indoors or under the stars on the courtyard patio. Dinner reservations are suggested.

Lunch: Monday - Saturday, 11:30 am - 2:00 pm

Brunch: Sunday, 10:00 am - 2:00 pm

Dinner: Monday - Saturday, 5:30 - 10:00 pm (closed Sunday)

Bermudas Steak & Seafood

Bermudas offers a casual setting with a beach view for dinner. Enjoy aged beef, fresh seafood, and regional specialties. Open every day. Kids eat dinner FREE with a dining adult Sunday-Thursday between 5-7 pm.

Breakfast: 7:00 – 11:00 am

Dinner: 5:00 – 10:00 pm

Beef 'O' Brady's

A casual restaurant and poolside sports pub, Beef 'O' Brady's has a fun atmosphere with salads, burgers, and wraps, as well as tasty desserts and frosty island concoctions. Open every day.

Sunday – Thursday, 11:00 am – 11:00 pm

Friday and Saturday, 11:00 am – midnight

Bar Hours: 11:00 – 2:00 am

Flying Bridge

This authentic floating Florida cracker cottage is permanently docked over the meandering Island Grand waterway and features a beachfront deck with a full bar. Dress is casual and many guests dine in beach attire. The fare includes nachos, wings, salads, burgers, wraps, sandwiches, and grilled entrees. Open daily from 11:00 am – 10:00 pm.

RedBeard's Sharktooth Tavern

Enjoy nightly live entertainment along with a nice selection of imported bottled beer, full bar, and specialty drinks. Monday is karaoke night. Open afternoons and evenings until 11:00 pm (closed Tuesdays).

Salty's

Located beside the adult pool, Salty's is a beachfront tiki bar, which features quick sandwiches and burgers, as well as frozen drinks. Open every day.

Food: 11:00 am – 11:00 pm

Cocktails: 11:00 – 2:00 am

Room Service at the TradeWinds Island Grand

Available daily from 6:00 am to 11:00 pm.

Awakenings Lobby Bar

An elegant lobby bar in the afternoon and evenings, Awakenings also offers morning coffee by Starbucks. Open from 7:00 am – closing varies daily.

Pizza Hut Express

Located onsite at the TradeWinds, Pizza Hut Express offers small, medium, and personal pan pizzas, as well as spicy chicken wings. Room delivery is available at the TradeWinds. Open daily from 11:00 am to 10:00 pm.

Working Cow Ice Cream Shoppe

Featuring gourmet ice cream and decadent sundaes, the Ice Cream Shoppe is open daily from 11:00 am to 10:00 pm.

Deli

Located just off the Grand Palm Colonnade, the Deli offers Grab and Go breakfasts, made-to-order sandwiches, salads, snacks and other foods to go. The Deli also features a selection of beverages, including wines. The Deli is open daily from 7:00 am. Closing times vary.

Restaurants at Guy Harvey Outpost

Perks Up

Perks Up offers morning pastries, on-the-go breakfast items, and Starbucks coffee. In the afternoon, guests can stop by for ice cream or enjoy a cocktail. Open daily from 7:00 am to 6:00 pm.

Guys Grill

Enjoy casual all-day dining with outdoor beachfront seating for breakfasts, casual lunches and dinners. Open daily 7:00 am – 10:00 pm.

Sand Bar

The Sand Bar is a beachfront oasis where guests can indulge in tall, cool drinks. Light snacks, appetizers and sandwiches are also served. Open daily from 11:00 am – 10:00 pm.

Room Service at the Guy Harvey Outpost

Available daily from 7:00 am to 10:00 pm.

Shipping

To ship your poster or other items home from the meeting, ask for the Concierge at the front desk of the TradeWinds Island Grand.

How to Contact Us

If you need to reach VSS meeting personnel while at the meeting, call ext. 7814 from a house phone, or from outside the hotel, call 727.367.6461, ext. 7814.

Club Vision Dance Party

Tuesday, May 20, 10:00 pm – 2:00 am,
Talk Room 1

Club Vision, held on the last night of the meeting, is the final social event of VSS. The dance party will feature DJ Randy, one of the area's most talented and requested DJs.

The wearing of glowing or flashing accessories is a tradition for the party and we will again be distributing free glow-in-the-dark necklaces and bracelets. Feel free to also bring your own creative accessories.

Don't miss the highlight of the VSS social calendar. We'll see you at Club Vision!

12th Annual Dinner and Demo Night

Monday, May 19, 6:00 – 10:00 pm

Beach BBQ: 6:00 – 8:00 pm
Beachside Sun Decks

Demos: 7:00 – 10:00 pm
Talk Room 1-2, Royal Tern, Snowy Egret, Compass, & Spotted Curlew

Please join us Monday evening for the 12th Annual VSS Demo Night, a spectacular night of imaginative demos solicited from VSS members. The demos highlight the important role of visual displays in vision research and education. This year's Demo Night will be organized and curated by Gideon Caplovitz, University of Nevada Reno; Arthur Shapiro, American University; Dejan Todorovic, University of Belgrade and Karen Schloss, Brown University.

A Beach BBQ is served on the Beachside Sun Decks. Demos are located in Talk Room 1-2, Royal Tern, Snowy Egret, Compass, & Spotted Curlew.

Demo Night is free for all registered VSS attendees. Meal tickets are not required, but you must wear your VSS badge for entry to the Beach BBQ. Guests and family members of all ages are welcome to attend the demos but must purchase a ticket for dinner. You can register your guests at any time during the meeting at the VSS Registration Desk, located on the Grand Palm Colonnade. A desk will also be set up on the Seabreeze Terrace at 6:30 pm.

Guest prices:

Adults: \$25

Youth (6-12 years old): \$10

Children under 6: free

Biological Motion

Peter Thompson, Rob Stone, University of York

A real-time demonstration of point-light biological motion. Walk, jump, dance in front of the sensor and see your point-light display. Using an Xbox Kinect sensor (approx \$50) and our free software you can produce this effect for yourselves.

Audiovisual Hallucinations

Parag Mital, Dartmouth College

Audiovisual scene synthesis attempts to simultaneously learn and match existing representations of proto-objects in the ongoing auditory and visual scene. The synthesized scene is presented through virtual reality goggles and headphones.

Phenomenology of Flicker-Defined Motion

Jeff Mulligan, NASA Ames Research Center; Scott Stevenso, University of Houston College of Optometry

Flicker-defined motion produces a number of surprises: a target that disappears when pursued; a target that appears to move in jumps when moved continuously; a persistent "trail" that disappears when the target is pursued. These effects and more will be presented.

Thatcherise Your Face

Peter Thompson, Rob Stone, Tim Andrews, University of York

The Thatcher illusion is one of the best-loved perceptual phenomena. Here you will have the opportunity to see yourself 'thatcherised' in real time. And you can have a still version of your thatcherised face as a souvenir.

The Ever-Popular Beuchet Chair

Peter Thompson, Rob Stone, Tim Andrews, University of York

The Beuchet chair baffles because the two separate parts of the chair are seen as belonging together. Although at different distances, the two parts have appropriate sizes to create the retinal image of a single chair at some intermediate distance. The two figures are now perceived as being at the same distance away and therefore size constancy does not operate. Additionally the far figure must be tiny to fit on the big seat of the chair and the near figure must be huge.

The Wandering Circles

Christopher D. Blair, Lars Strother and Gideon P. Caplovitz, University of Nevada, Reno

Physically stationary flickering shapes appear to drift randomly when viewed peripherally.

Dynamic Ebbinghaus

Ryan E.B. Mruzec, Christopher D. Blair, Gideon P. Caplovitz, University of Nevada, Reno

Come see the Ebbinghaus Illusion as you've never seen it before! Watch the central circle grow and shrink before your eyes as we add a dynamic twist to this classic illusion.

To Deform or Not to Deform: Illusory Deformations of a Static Object Triggered by the Light Projection of Motion Signals

Takahiro Kawabe, Masataka Sawayama, Kazushi Maruya, Shin'ya Nishida, NTT Communication Sciences Laboratories, Japan

We will demonstrate that projecting image motion through a video projector can deform the apparent shape of static objects printed on the paper.

Strobwheel

Anna Kosovicheva, Benjamin Wolfe, Wesley Chaney, Allison Yamanashi Leib, Alina Liberman, University of California, Berkeley

We present a modified phenakistoscope in which we use a strobe light to create animated images on a spinning disc. Viewers can adjust the frequency of a strobe light to change the animation, or make the image on the disc appear to spin backwards or stand still.

Polygonization Effect

Kenzo Sakurai, Tohoku Gakuin University

Prolonged viewing of a circular shape in peripheral vision produces polygonal shape perception of the circle itself. This shape distortion illusion can be induced in a short period by alternately presenting a circle and its inward gradation pattern.

The Saccadic Smear

Mark Wexler, Marianne Duyke, Thérèse Collins, CRNS & Université Paris Descartes

When a stimulus appears only during a saccade, you see it smeared. If it also appears before the saccade or stays on afterwards, the smear is masked. We demonstrate this retro 1970s-style phenomenon using a portable eye tracker and several LEDs. Wait a minute, where did that smear go?

Bistable Double Face Illusion

Sarah Cormiea, Anna Shafer-Skelton; Harvard University

Come visit our demo and take home an illusion made with your own face. We'll take two photos and combine them to create a bistable illusion of a forward looking face that incongruously still has a profile.

Expansion/Contraction Blindness

Koshke Takahashi, Katsumi Watanabe, The University of Tokyo

We show a novel striking visual illusion. When an object filled with black and white color makes rotation and zoom on a gray background, you will never see the expansion and contraction.

Rotating Columns

Vicky Froyen, Daglar Tanrikulu, Rutgers University

Adding textural motion to classic figure-ground displays reveals complex interactions between accretion-deletion and geometric figure-ground cues. We demonstrate cases where static geometry overrides standard depth from accretion-deletion. Thus moving regions are perceived as figural and rotating in 3D, despite the textural motion being linear and thus inconsistent with 3D rotation.

Infinite Regress Etch-a-Sketch

Nika Adamian, Patrick Cavanagh, Matteo Lisi, Laboratoire Psychologie de la Perception, Université Paris V Descartes; Peter U. Tse, Laboratoire Psychologie de la Perception, Uni-

versité Paris V Descartes, Department of Psychological and Brain Sciences, Dartmouth College

A new infinite regress illusion (Tse & Hsieh, 2006) synchronizes changes in the path of a gabor with changes in its internal motion. This produces large, stable differences between perceived and physical location. Illusory shapes or orientations can be created to show dramatic dissociations between action and perception.

News from the Freiburg Vision Test

Michael Bach, University Eye Center, Freiburg Germany

"FrACT" with a history of over 20 years was validated in a number of studies and is widely employed - in 2013 it was cited in 40 papers that used FrACT. Its ongoing active development is often driven by user requests. I will demonstrate new features.

Chromatic Interocular Switch Rivalry

Jens Hofman Christiansen, University of Copenhagen; Steven Shevell, University of Chicago; Anthony D'Antona, University of Texas at Austin

Using a haploscope, a differently colored circle is presented to each eye in the same part of the visual field (binocular color rivalry). When the rivalrous colors are exchanged between the eyes at 3 Hz, the percept is not flickering colors but instead slow alternation between the two colors.

Eye Movements and Troxler Fading

Romain Bachy, Qasim Zaidi, Graduate Center for Vision Research, SUNY Optometry

Observers will be able to use a time-varying procedure to see that fixational eye-movements control the magnitude and speed of adaptation for foveal and peripheral vision. The stimuli will isolate single classes of retinal ganglion cells and demonstrate the effects of flicker and blur on adaptation of each class.

The Magical Misdirection of Attention in Time

Anthony S. Barnhart, Northern Arizona University

When we think of "misdirection," we typically think of a magician drawing attention away from a spatial location. However, magicians also misdirect attention in time through the creation of "off-beats," moments of suppressed attention. The "striking vanish" illusion, where a coin disappears when tapped with a pen, exploits this phenomenon.

Applying Temporal Masking For Bandwidth Reduction in HD Video Streaming

Velibor Adzic, Hari Kalva, Florida Atlantic University

We demonstrate some aspects of temporal masking in natural video sequences. Specifically, application of backward temporal masking and motion masking in visually lossless video compression.

Water Flowing Upward

Wenxun Li, Leonard Martin, Columbia University; Ethel Matin, Long Island University – Post

See Water Flowing Uphill!

Lower in Contrast, Higher in Numerosity

Quan Lei, Adam Reeves, Northeastern University

There appear to be many more light gray than white disks, and many more dark gray than black disks, when equal numbers of the disks are intermingled on a medium gray background. Intermingling is critical: disks separated into two regions match in perceived numerosity.

The Shape-Shifting Cylinder

Lore Thaler, Durham University, UK

We present a novel demonstration of the effects of optical texture and binocular disparity on shape perception. You will see a real, physical cylinder. As you alternate your view from monocular to binocular the shape of the cylinder shifts, i.e. the tip of the cylinder appears to move from left to right (or vice versa).

Virtual Reality Immersion with the Full HD Oculus Rift Head Mounted Displays

Michael Schaletzki, Matthias Pusch, Charlette Li, WorldViz

Get fully immersed with a research quality, consumer component based Virtual Reality system. Powered by the WorldViz Vizard VR software, the system comes with the Oculus Rift HD, motion tracking, rapid application development tools, application starter kit, support & training. Walk through high-fidelity virtual environments in full scale and fully control visual input.

What Happens to a Shiny 3D Object in a Rotating Environment?

Steven A. Cholewiak, University of Gissen, Germany; Gizem Kucukoglu, New York University

A mirrored object reflects a distorted world. The distortions depend on the object's surface and act as points of correspondence when it moves. We demonstrate how the perceived speed of a rotating mirrored object is affected by rotation of the environment and present an interesting case of perceived non-rigid deformation.

Alternating Apparent Motion in Random Dot Displays

Nicolas Davidenko, Jacob Smith, Yeram Cheong, University of California, Santa Cruz

A succession of random dot displays gives rise to a percept of coherent, global, apparent motion. The perceived apparent motion is typically alternating (flipping direction on each frame) and vertical, although the direction can be easily manipulated by suggestion.

An Ames-room-like Box with a Ball Inside

Ryuichi Yokota, Masahiro Ishii, Shoko Yasuoka, Sapporo University

This is a miniature overturned Ames room with a physically-slanted base. The top face has a hole to peep inside. The box is designed to have an apparently-horizontal base and contains a ball. One can experience unnatural feelings when they manipulate to roll the ball across the base.

VPixx Response-Time Survivor

Peter April, Jean-Francois Hamelin, Stephanie-Ann Seguin, VPixx Technologies

VPixx will be demonstrating our PROPixx DLP projector refreshing at 1440Hz. The demo is a fun game in which we measure your reaction time to cross-modal audiovisual stimuli. Do it fast, and win a prize! This year's demo has a surprise twist which you will definitely want to see.

Moving Barber-Pole Illusion

George Sperling, Peng Sun, Charles Chubb, University of California, Irvine

When an entire vertically oriented barber pole itself moves laterally, and it is viewed peripherally, the perceived motion direction is vertically upward, even though the physical Fourier, end-stop, and feature motion directions, and the foveally perceived motion direction are all diagonal.

SWYE! Surfing With Your Eyes: The Beachiest Illusion Out There!

Alejandro Lleras, Simona Buetti, University of Illinois

This "You-Should-Really-Try-Doing-It-On-The-Beach-Sometime-You-Know?" visual illusion is Ok when seen on video... a run-of-the-mill bi-stable stimulus. But when experienced at the beach, it becomes a multimodal illusion where (while stationary) you feel as if you were gliding at several feet per second over the water. Your trips to the beach will never be the same!

The New Synopter

M.W.A. Wijntjes, S.C. Pont, Perceptual Intelligence Lab, Delft University of Technology

With two mirrors it is possible to optically juxtapose the location of both eyes, resulting in disparities that are similar to infinitely distant points. Although invented about a 100 year ago, the synopter yields a percept that is still difficult to explain: that of an illusory 3D picture.

Exhibitors

VSS recognizes the following companies who are exhibiting at VSS 2014 and we thank them for their participation and support.

Exhibit Hours

Saturday, May 17, 8:30 am – 6:45 pm

Sunday, May 18, 8:30 am – 6:45 pm

Monday, May 19, 8:30 am – 12:30 pm

All exhibits are located in the Banyon Breezeway.

Arrington Research, Inc.

Booth 7

400 Hz ViewPoint EyeTracker(R) systems from Arrington Research available with Torsion and 3D Vergence. All systems include a Software Developers Kit (SDK), real-time Ethernet communication, built-in stimulus presentation, post-hoc data analysis tools, a MATLAB toolbox, Python, and many other 3rd Party product interfaces and examples. Great for both humans and animals and is available with Analog and TTL communication to ensure seamless communication. ViewPoint EyeTracker(R) systems are the easiest and best value available and include a variety of light-weight head mounted EyeFrame(tm), HMD, head fixed, and remote systems. Arrington Research has been providing reliable affordable eye trackers worldwide for over 17 years. Please visit www.ArringtonResearch.com for more details.

Brain Vision, LLC

Booth 10

Brain Vision has been the leader in EEG in Vision Science for a while. We are proud to present NIRS devices from NIRX this year at the VSS. We provide flexible and robust solutions for active EEG, wireless EEG, dry EEG and a wide range of bio-sensors like GSR, EKG, Respiration and EMG. We offer a full hardware and software integration of EEG with many leading eye tracking and visual stimulation devices.

Cambridge Research Systems Ltd.

Booth 1

This year at VSS, Cambridge Research Systems celebrates 25 years of providing novel solutions for vision science and human brain mapping.

Prior to the meeting, we are running two technical short courses on Light Measurement and Display Characterisation, aimed at helping early-career vision scientists to understand how to evaluate the latest display technologies and light measuring instruments.

We are launching Display++, our LCD display that makes it simple to display calibrated visual stimuli with precision timing, and provides robust and reliable synchronisation

of the stimulus presentation with external data collection equipment, at an affordable price.

The MR-Safe version of our LCD display is BOLDscreen32. It offers the same features as Display++, for fMRI at up to 7T. We also provide MR-safe eye tracking, a range of response devices (e.g. button boxes and joysticks), plus accessories like MRI-safe spectacles.

If a CRT display is more suitable for your application, we have stock available. We recommend driving it with Bits# (Bits Sharp), which unites trusted CRS hardware features for high resolution calibrated stimulus display and synchronous data collection with software tools like Psychtoolbox-3, PsychoPy and Psykinematix.

If you have a ViSaGe of any vintage talk to us about how you can add the Bits# functionality to your existing equipment.

AudioFile is an ideal companion to Bits# and ViSaGe, it makes it easy to present synchronous auditory stimuli with low latency, deterministic timing on any computer.

We also provide spectroradiometric display calibration equipment, cost-effective eye tracking, response boxes and laboratory furniture like chinrests and motorized tables.

We are pleased to invite all our customers and friends to join John, Tom, Steve, Jakob & Caterina for our 25 Years of Vision Science Party on Sunday evening.

Cortech Solutions, Inc.

Booth 2

Evoked-potential and event-related potential systems for research are our specialty. We provide US sales and support for the most advanced brand names, including Biosemi ActiveTwo and g.tec's g.HIamp, both high-bandwidth digital systems with active electrodes. All of our EP / ERP systems can be offered with leading off-line analysis software like EMSE Suite and BESA, but we also offer a variety of real-time analysis options for use in brain-computer interface and other applications. We are pleased to be the US sales and support representative for Cambridge Research Instruments, allowing us to configure vision science solutions with EP / ERP or for use in fMRI studies.

LC Technologies Inc.

Booth 11

LC Technologies is passionate about changing lives with world leading eye tracking technologies. Founded in 1986 with the goal of creating an unobtrusive human-computer interface that will revolutionize the way we interact with computers and other devices, we now operate in 44 countries. Our eye-tracking systems create seamless extensions of the human experience which provide highly accurate eye movement and gaze point measurements.

Oxford University Press

Booth 8

Visit the Oxford University Press booth for discounts on all new and backlist titles including: Pizlo Making a Machine That Sees Like Us, Shimamura, Experiencing Art, Goodale, Sight Unseen, 2nd edition, and much more!

The MIT Press

Booth 3

The MIT Press publishes books in vision science and related fields. Please come by our booth to receive a 30% discount on new and classic titles.

SensoMotoric Instruments, Inc.

Booth 6

SMI designs advanced eye tracking systems that combine ease of use and flexibility with advanced technology. SMI products offer the ability to measure gaze position, saccades, fixations, pupil size, etc. This includes fully remote systems, high-speed/high precision, glasses-based, and fMRI/MEG compatible systems. Experiment Center 360° continues to serve researchers worldwide by offering a powerful solution to stimulus presentation, data acquisition, and analysis.

SR Research Ltd.

Booth 9

SR Research welcomes you to VSS 2014! The recently announced EyeLink 1000 Plus now has even greater capabilities – drop by our booth to see the Binocular Tower Mount, try out Binocular Remote tracking (500 Hz) and to learn about free software updates for existing users, including Dynamic Interest Area processing in DataViewer and versatile Scene/Screen Recording software for the EyeLink 1000/1000 Plus. New mounts are available for the 1000 Plus making it an even more versatile eye tracking platform. EyeLink eye-trackers provide a uniform, cutting-edge solution for the behavioral lab, MRI/MEG, or EEG. With the world's best technical specifications and most flexible experiment delivery software, we enable academics to achieve their goals, as reflected in the quantity and quality of peer-reviewed publications they produce.

VPixx Technologies Inc.

Booths 4 & 5

VPixx Technologies welcomes the vision community to VSS 2014, and is excited to demonstrate our PROPixx DLP LED video projector, now supporting refresh rates up to 1440Hz. The PROPixx has been designed specifically for the generation of precise high refresh rate stimuli for stereoscopic, gaze-contingent, and other dynamic applications. The PROPixx is the most flexible display possible for vision research, featuring resolutions up to 1920x1080, and a perfectly linear gamma. The solid state LED light engine has 30x the lifetime of halogen projectors, a wider colour gamut, and zero image ghosting. For stereo vision applications, our high speed circular polarizer can project 400Hz stereoscopic stimuli for passive polarizing glasses into MRI and MEG environments. Come and see the SHIELDPIX Faraday cage for installing the PROPixx inside an MRI/MEG room. In addition, the PROPixx includes an embedded data acquisition system, permitting microsecond synchronization between visual stimulation and other types of I/O including audio stimulation, button box input, TTL trigger output, analog acquisition, and more! VPixx Technologies will be hosting the sixth annual response-time showdown during demo night this year. The demo is a fun reaction-time game. Do it fast, and win a prize!

WorldViz

Booth 12

WorldViz is an industry leader in interactive virtual reality solutions. The company's flagship products are VIZARD, the VR communities favored interactive 3D content creation software, and PPT X4, the most cost effective wide-area tracking system currently available. WorldViz provides high quality, low-cost immersive 3D products to researchers, educators, designers, manufacturers, and other professionals, integrating all common VR products on the market and delivering complete turnkey solutions.

Member-Initiated Symposia

Schedule Overview

Session 1: Friday, May 16, 12:00 - 2:00 pm

S1 Vision and eye movements in natural environments

Talk Room 1

S2 Beyond the FFA: The role of the ventral anterior temporal lobes in face processing

Pavilion

Session 2: Friday, May 16, 2:30 - 4:30 pm

S3 Mid-level representations in visual processing

Talk Room 1

S4 The visual white-matter matters! Innovation, data, methods and applications of diffusion MRI and fiber tractography

Pavilion

Session 3: Friday, May 16, 5:00 - 7:00 pm

S5 What are you doing? Recent advances in visual action recognition research

Talk Room 1

S6 Understanding representation in visual cortex: why are there so many approaches and which is best?

Pavilion

S1 Vision and eye movements in natural environments

Friday, May 16, 12:00 - 2:00 pm, Talk Room 1

Organizers: Brian J. White & Douglas P. Munoz, Centre for Neuroscience Studies, Queen's University, Kingston, ON, Canada

Presenters: Jared Abrams, Wolfgang Einhäuser, Brian J. White, Michael Dorr, Neil Mennie

Historically, the study of vision has largely been restricted to the use of simple stimuli in controlled tasks where observers are required to maintain stable gaze, or make stereotyped eye movements. This symposium presents some of the latest research aimed at understanding how the visual system behaves during unconstrained viewing of natural scenes, dynamic video, and real-world environments. Understanding how we perceive and act upon complex natural environments has potential to revolutionize our understanding of the brain, from machine vision and artificial intelligence to clinical applications such as the detection of visual or mental disorders and neuro-rehabilitation.

Fixation search in natural scenes: a new role for contrast normalization

Speaker: Jared Abrams, Center for Perceptual Systems, University of Texas, Austin, USA

Authors: Chris Bradley, Center for Perceptual Systems, University of Texas, Austin; Wilson S. Geisler, Center for Perceptual Systems, University of Texas, Austin

Eye movements in natural scenes and gaze in the real world

Speaker: Wolfgang Einhäuser, Philipps-University Marburg, Department of Neurophysics, Marburg, Germany

Authors: Bernard Marius 't Hart, Philipps-University Marburg, Department of Neurophysics, Marburg, Germany

Visual coding in the superior colliculus during unconstrained viewing of natural dynamic video

Speaker: Brian J. White, Centre for Neuroscience Studies, Queen's University, Kingston, ON, Canada

Authors: Laurent Itti, Dept of Computer Science, University of Southern California, USA; Douglas P. Munoz, Centre for Neuroscience Studies, Queen's University, Kingston, ON, Canada

Visual sensitivity under naturalistic viewing conditions

Speaker: Michael Dorr, Schepens Eye Research Institute, Dept of Ophthalmology, Harvard Medical School, and Institute for Neuro- and Bioinformatics, University of Lübeck, Germany

Authors: Thomas S Wallis, Schepens Eye Research Institute, Dept of Ophthalmology, Harvard Medical School, and Centre for Integrative Neuroscience and Department of Computer Science, The University of Tübingen, Tübingen, Germany; Peter J Bex, Schepens Eye Research Institute, Dept of Ophthalmology, Harvard Medical School

Spatio-Temporal Dynamics of the use of gaze in natural tasks by a Sumatran Orangutan (Pongo abelli)

Speaker: Neil Mennie, University of Nottingham, Malaysia Campus, Malaysia

Authors: Nadia Amirah Zulkifli, University of Nottingham Malaysia Campus; Mazrul Mahadzir, University of Nottingham Malaysia Campus; Ahamed Miflah, University of Nottingham Malaysia Campus; Jason Babcock, Positive Science LLC, New York, USA

S2 Beyond the FFA: The role of the ventral anterior temporal lobes in face processing

Friday, May 16, 12:00 - 2:00 pm, Pavilion

Organizers: Jessica Collins & Ingrid Olson, Temple University

Presenters: Winrich Frieswald, Stefano Anzellotti, Jessica Collins, Galia Avidan, Stefan Köhler

Although accruing evidence has shown that face-selective patches in the ventral anterior temporal lobes (vATLs) are highly interconnected with the FFA and OFA, and that they play a necessary role in facial perception and identification, the contribution of these brain areas to the face-processing network remains elusive. The goal of this symposium is to bring together researchers from a variety of disciplines to address the following question: What is the functional role of the vATLs in face perception and memory, and how do they interact with the greater face network?

Face-processing hierarchies in primates

Speaker: Winrich Frieswald, The Rockefeller University

Invariant representations of face identity in the ATL

Speaker: Stefano Anzellotti, Harvard University

Authors: Alfonso Caramazza, Harvard University

The role of the human vATL face patches in familiar face processing

Speaker: Jessica Collins, Temple University

Authors: Ingrid Olson, Temple University

Structural and functional impairment of the face processing network in congenital prosopagnosia

Speaker: Galia Avidan, Ben Gurion University

Authors: Michal Tanzer, Ben Gurion University; Marlene Behrmann, Carnegie Mellon University

Functional role and connectivity of perirhinal cortex in face processing

Speaker: Ed O'Neil, University of Western Ontario

Authors: Stefan Köhler, University of Western Ontario

S3 Mid-level representations in visual processing

Friday, May 16, 2:30 - 4:30 pm, Talk Room 1

Organizer: Jonathan Peirce, University of Nottingham

Presenters: Jonathan Peirce, Anitha Pasupathy, Zoe Kourtzi, Gunter Loffler, Tim Andrews, Hugh Wilson

The majority of studies in vision science focus on the representation of low-level features, such as edges, color or motion processing, or on the representation of high-level constructs such as objects, faces and places. Surprisingly little work aims to understand the link between the two; the intermediate representations of a "mid-level" vision. This symposium invites a series of speakers that have spent time working on mid-level vision to present their views on what those intermediate representations might be, of the problems that such processing must overcome, and the methods that we might use to understand them better.

Compound feature detectors in mid-level vision

Speaker: Jonathan Peirce, University of Nottingham

Boundary curvature as a basis of shape encoding in macaque area V4

Speaker: Anitha Pasupathy, University of Washington

Adaptive shape coding in the human visual brain

Speaker: Zoe Kourtzi, University of Birmingham

Probing intermediate stages of shape processing

Speaker: Gunter Loffler, Glasgow Caledonian University

Low-level image properties of visual objects explain category-selective patterns of neural response across the ventral visual pathway

Tim Andrews, University of York

From Orientations to Objects: Configural Processing in the Ventral Stream

Speaker: Hugh Wilson, York University

S4 The visual white-matter matters! Innovation, data, methods and applications of diffusion MRI and fiber tractography

Friday, May 16, 2:30 - 4:30 pm, Pavilion

Organizers: Franco Pestilli & Ariel Rokem, Stanford University

Presenters: Ariel Rokem, Andrew Bock, Holly Bridge, Suzy Scherf, Hiromasa Takemura, David Van Essen

Many regions of the cerebral cortex are involved in visual perception and cognition. In this symposium, we will focus on the neuroanatomical connections between them. To study the visual white-matter connections, speakers in this symposium use diffusion MRI (dMRI), an imaging method that probes the directional diffusion of water. The talks will present studies of connectivity between visual processing streams, development of visual white

matter, and the role of white matter in visual disorders. We will also survey publicly available resources available to the Vision Sciences community to extend the study of the visual white matter.

Measuring and modelling of diffusion and white-matter tracts

Speaker: Ariel Rokem, Stanford University

Authors: Franco Pestilli

Gross topographic organization in the corpus callosum is preserved despite abnormal visual input

Speaker: Andrew Bock, University of Washington

Authors: Melissa Saenz, University of Lausanne; Holly Bridge, Oxford; Ione Fine, University of Washington

Using diffusion-weighted tractography to investigate dysfunction of the visual system

Speaker: Holly Bridge, Oxford

Authors: Rebecca Millington; James Little; Kate Watkins

Structural properties of white matter circuits necessary for face perception

Speaker: Suzy Scherf, Penn State

Authors: Marlene Behrmann, Carnegie Mellon University; Cibu Thomas, NIH; Galia Avidan, Beer Sheva University; Dan Elbich, Penn State University

A major white-matter wiring between the ventral and dorsal stream

Speaker: Hiromasa Takemura, Stanford University

Authors: Brian Wandell

What is the Human Connectome Project telling us about human visual cortex?

Speaker: David Van Essen, Washington University

S5 What are you doing? Recent advances in visual action recognition research

Friday, May 16, 5:00 - 7:00 pm, Talk Room 1

Organizers: Stephan de la Rosa & Heinrich Bühlhoff, Max Planck Institute for Biological Cybernetics

Presenters: Nick Barraclough, Cristina Becchio, Stephan de la Rosa, Ehud Zohary, Martin A. Giese

Knowing what another person is doing by visually observing the other person's actions (action recognition) is critical for human survival. Although humans often have little difficulty recognizing the actions of others, the underlying psychological and neural processes are complex. The understanding of these processes has not only implications for the scientific community but also for the development of man-machine interfaces, robots, and artificial intelligence. The current symposium summarizes recent scientific advances in the realm of action recognition by providing an integrative view on the processes underlying action recognition.

Other peoples' actions interact within our visual system

Speaker: Nick Barraclough, Department of Psychology, University of York, York, UK

On seeing intentions in others' movements

Speaker: Cristina Becchio, Centre for Cognitive Science, Department of Psychology, University of Torino, Torino, Italy; Department of Robotics, Brain, and Cognitive Science, Italian Institute of Technology, Genova, Italy

The influence of context on the visual recognition of social actions

Speaker: Stephan de la Rosa, Department Human Perception, Cognition and Action; Max Planck Institute for Biological Cybernetics, Tübingen, Germany

Authors: Stephan Streuber, Department Human Perception, Cognition and Action; Max Planck Institute for Biological Cybernetics, Tübingen, Germany Heinrich Bülhoff, Department Human Perception, Cognition and Action; Max Planck Institute for Biological Cybernetics, Tübingen, Germany

On the representation of viewed action in the human motor pathways

Speaker: Ehud Zohary, Department of Neurobiology, Alexander Silberman Institute of Life Sciences, Hebrew University of Jerusalem, Israel

Neural theory for the visual perception of goal-directed actions and perceptual causality

Speaker: Martin A. Giese, Section for Computational Sensomotorics, Dept. for Cognitive Neurology, HIH and CIN, University Clinic Tübingen, Germany

Authors: Falk Fleischer^{1,2}, Vittorio Caggiano^{2,3}, Jörn Pomper², Peter Thier²; ¹Section for Computational Sensomotorics, ²Dept. for Cognitive Neurology, HIH and CIN, University Clinic Tübingen, Germany, ³McGovern Institute for Brain Research, M.I.T., Cambridge, MA Supported by the DFG, BMBF, and EU FP7 projects AMARSI, ABC, and the Human Brain Project

S6 Understanding representation in visual cortex: why are there so many approaches and which is best?

Friday, May 16, 5:00 - 7:00 pm, Pavilion

Organizers: Thomas Naselaris & Kendrick Kay, Department of Neurosciences, Medical University of South Carolina & Department of Psychology, Washington University in St. Louis

Presenters: Thomas Naselaris, Marcel van Gerven, Kendrick Kay, Jeremy Freeman, Nikolaus Kriegeskorte, James J. DiCarlo, MD, PhD

Central to visual neuroscience is the problem of representation: what features of the visual world drive activity in the visual system? In recent years a variety of new methods for characterizing visual representation have been proposed. These include multivariate pattern analysis, representational similarity analysis, the use of abstract semantic spaces, and models of stimulus statistics. In this symposium, invitees will present recent discoveries in visual representation, explaining the generality of their approach and how it might be applicable to future studies. Through this forum we hope to move towards an integrative approach that can be shared across experimental paradigms.

Visual representation in the absence of retinal input

Speaker: Thomas Naselaris, Department of Neurosciences, Medical University of South Carolina, Charleston, SC

Learning and comparison of visual feature representations?

Speaker: Marcel van Gerven, Donders Institute for Brain, Cognition and Behaviour

Identifying the nonlinearities used in extrastriate cortex

Speaker: Kendrick Kay, Department of Psychology, Washington University in St. Louis

Carving up the ventral stream with controlled naturalistic stimuli

Speaker: Jeremy Freeman, HHMI Janelia Farm Research Campus
Authors: Corey M. Ziemba, J. Anthony Movshon, Eero P. Simoncelli, and David J. Heeger Center for Neural Science New York University, New York, NY

Vision as transformation of representational geometry

Speaker: Nikolaus Kriegeskorte, Medical Research Council, Cognition and Brain Sciences Unit, Cambridge, UK

Modern population approaches for discovering neural representations and for discriminating among algorithms that might produce those representations

Speaker: James J. DiCarlo, MD, PhD, Professor of Neuroscience Head, Department of Brain and Cognitive Sciences Investigator, McGovern Institute for Brain Research Massachusetts Institute of Technology, Cambridge, USA

Authors: Ha Hong and Daniel Yamins Department of Brain and Cognitive Sciences and McGovern Institute for Brain Research Massachusetts Institute of Technology, Cambridge, USA

Abstract Numbering System

Each abstract is assigned a unique 4 to 5 digit number based on when and where it is to be presented. The format of the abstract numbering is DT.RN (where D is the Day, T is the Time, R is the Room and N is the Presentation number).

First Digit - Day	Second Digit - Time Period	Third Digit - Room	Fourth/Fifth Digits - Number
2 Saturday	1 Early AM talk session	1 Talk Room 1	1, 2, 3... For talks
3 Sunday	2 Late AM talk session	2 Talk Room 2	01, 02, 03... For posters
4 Monday	3 AM poster session	3 Jacaranda Hall	
5 Tuesday	4 Early PM talk session	4 Banyan Breezeway	
6 Wednesday	5 Late PM talk session	5 Pavilion	
	6 PM poster session		

Examples:

21.16 Saturday, early AM talk in Talk Room 1, 6th talk
36.513 Sunday, PM poster in Banyan Breezeway, poster board 513
53.306 Tuesday, AM poster in Jacaranda Hall, poster board 306

Note: Two digits after the period indicates a talk, three digits indicates a poster (and is also the number of the poster board).

Saturday Morning Talks

Perception and action: Locomotion

Saturday, May 17, 8:15 - 9:45 am

Talk Session, Talk Room 1

Moderator: Brett Fajen

21.11, 8:15 am **Influence of optic flow on the control of walking toward a goal** Li Li, Diederick Niehorster, William Warren, Benjamin Bolte, Phil Wieland, Markus Lappe

21.12, 8:30 am **Homing with audio landmarks and path integration** Norbert Boeddeker, Alessandro Moscatelli, Marc Ernst

21.13, 8:45 am **The critical period for the visual control of foot placement in complex terrain occurs in the preceding step**

Jonathan Matthis, Sean Barton, Brett Fajen

21.14, 9:00 am **Multi-Agent Simulation of Collective Behavior in Human Crowds** William Warren, Stéphane Bonneaud

21.15, 9:15 am **Modeling uncertainty and intrinsic reward in a virtual walking task** Matthew H. Tong, Mary M. Hayhoe

21.16, 9:30 am **Fast mirroring of an opponent's action in a competitive game** Ken Nakayama, Sarah Cormiea, Maryam Vaziri Pashkam

Motion Perception: Neural mechanisms and modeling

Saturday, May 17, 10:45 am - 12:30 pm

Talk Session, Talk Room 1

Moderator: Concetta Morrone

22.11, 10:45 am **Bidirectional manipulation of GABAergic inhibition in MT: A comparison of neuronal and psychophysical performance** Liu Liu, Christopher Pack

22.12, 11:00 am **Development of visual BOLD response in infants** Maria Concetta Morrone, Laura Biagi, Sofia Crespi, Michela Tosetti

22.13, 11:15 am **Neural dynamics of fine direction-of-motion discrimination** Jacek Dmochowski, Anthony Norcia

22.14, 11:30 am **Forward displacement of expanding and contracting lines beyond their point of disappearance** Robert Tilford, Romi Nijhawan

22.15, 11:45 am **Rethinking the aperture problem: a story of competing priors** Edgar Walker, Wei Ji Ma

22.16, 12:00 pm **Unified representation of motion and motion streak patterns in a model of cortical form-motion interaction** Stephan Tschechne, Heiko Neumann

22.17, 12:15 pm **No dedicated color motion system** Remy Allard, Jocelyn Faubert

Attention: Control

Saturday, May 17, 8:15 - 9:45 am

Talk Session, Talk Room 2

Moderator: Hans Super

21.21, 8:15 am **Location specific and non-specific effects of suppressed feature singletons on visual processing.** Joo Huang Tan, Po-Jang Hsieh

21.22, 8:30 am **Two stages of attentional filtering during sequential evidence integration in human perceptual decision-making** Valentin Wyart, Nicholas Myers, Christopher Summerfield

21.23, 8:45 am **Role of vergence during eye fixation in orienting visual attention** Hans Supèr, Josep Marco, Laura Perez Zapata, Jose Cañete Crespillo, Maria Solé Puig

21.24, 9:00 am **The timecourse of the attentional bias to regularities** Jiaying Zhao, Nicholas B. Turk-Browne

21.25, 9:15 am **Statistical regularities alter the spatial scale of attention** Yu Luo, Jiaying Zhao

21.26, 9:30 am **Global/local object structure affects memory-driven capture of attention** Markus Conci, Hermann J. Müller

Attention: Features and objects

Saturday, May 17, 10:45 am - 12:30 pm

Talk Session, Talk Room 2

Moderator: Emily Ward

22.21, 10:45 am **Stimulus competition modulates the joint effects of spatial and feature-based attention on visual sensitivity** Alex White, Martin Rolfs, Marisa Carrasco

22.22, 11:00 am **Feature-based attention elicits surround-suppression in color space** Viola S. Störmer, George A. Alvarez

22.23, 11:15 am **Neural coding of perceptual features is enhanced when they are task relevant** Emily Ward, Marvin Chun

22.24, 11:30 am **The time-course of feature-selective attention inside and outside the focus of spatial attention** Søren K. Andersen, Steven A. Hillyard

22.25, 11:45 am **Measuring the salience of an object in a scene** Alasdair Clarke, Michal Dziemianko, Frank Keller

22.26, 12:00 pm **Attentional constraints on human foraging** Arni Kristjánsson, Omar Johannesson, Ian M. Thornton

22.27, 12:15 pm **The Effect of Semantic and Syntactic Object Properties on Attentional Allocation in Naturalistic Scenes** George Malcolm, Sarah Shomstein

Saturday Morning Posters

Visual memory: Objects, features and individual differences

Saturday, May 17, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

23.301 **Ponzo inducers in the working memory produce illusory line length perception** Feitong Yang, Jonathan Flombaum

23.302 **Visual search for digits is faster when numerical and physical size are congruent** Kenith Sobel, Amrita Puri

23.303 **Aging and visual memory: Modified method of single stimuli reveals biases and imprecision** J. Farley Norman, Jacob Cheeseman, Michael Baxter, Kelsey Thomason, Olivia Adkins, Connor Rogers

23.304 **Building tolerant long-term memories through (object) persistence** Mark W. Schurgin, Zachariah M. Reagh, Michael A. Yassa, Jonathan I. Flombaum

23.305 **Reduced competition among contextually associated objects enhances detail memory for briefly glimpsed images** Nurit Gronau, Meytal Shachar

23.306 **Forgetting induced by recognition of visual images** Ashleigh Maxcey, Geoffrey Woodman

23.307 **Does drawing skill relate to better memory of local or global object structure?** Florian Perdreau, Patrick Cavanagh

23.308 **Constructing Gestalt in Visual Working Memory** Mowei Shen, Qiyang Gao, Ning Tang, Rende Shui, Shulin Chen, Zaifeng Gao

23.309 **Bringing the 'real-world' into cognitive science: real objects are more memorable than pictures** Taylor Coleman, Rafal Skiba, Alexis Carroll, Scott Turek, Marian Berryhill, Jacqueline Snow

23.310 **Through the fence or behind the wall: Occlusion type affects object memory** Karla Antonelli, Eumji Kang, Carrick Williams

23.311 **Emotional faces in visual working memory are not easily forgotten: Distractor effects on memory-guided visual search** Risa Sawaki, Jane Raymond

23.312 **Feature as the basic storage unit of visual working memory** Benchi Wang, Zhiguo Wang

23.313 **Feature and object representations in visual working memory are subject to top-down control** Amanda E. van Lamsweerde, Jeffrey S. Johnson

23.314 **The contribution of attentional lapses to estimates of individual differences in working memory capacity.** Irida Mance, Kirsten Adam, Keisuke Fukuda, Edward Vogel

23.315 **Trial-by-trial fluctuations in working memory performance predict individual differences in working memory capacity** Kirsten Adam, Irida Mance, Keisuke Fukuda, Edward Vogel

23.316 **Spatial Working Memory in Children With High-Functioning Autism: Intact Configural Processing But Impaired Capacity** Yuhong V. Jiang, Christian G. Capistrano, Bryce E. Palm

23.317 **The relationship between vividness of visual imagery and indirect size-measurements of the visual cortex** Kang Yong Eo, Oakyoon Cha, Yaelan Jung, Sang Chul Chong

Perceptual organisation: Neural mechanisms and models

Saturday, May 17, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

23.318 **EEG frequency-tagging yields a neural signature of integration of parts into perceptually organized wholes** Nihan Alp, Naoki Kogo, Goedele Vanbelle, Johan Wagemans, Bruno Rossion

23.319 **Competition-based ground suppression in extrastriate cortex and the role of attention** Laura Cacciamani, Paige E. Scalf, Mary A. Peterson

23.320 **Decoding orientation of visual stimuli from human magnetoencephalography data** Radoslaw Cichy, Dimitrios Pantazis

23.321 **A Meta-analysis of Multi-voxel Patterns in the Ventral Stream** Marc N Coutanche, Sarah H Solomon, Sharon L Thompson-Schill

23.322 **Case study of unexplained visual field loss and perceptual deficits in the presence of normal early visual function** Christina Moutsiana, Radwa Soliman, Lee de-Wit, Martin I. Sereno, Gordon Plant, D. Samuel Schwarzkopf

23.323 **Increased alpha band activity indexes inhibitory competition across a border during figure assignment** Joseph L. Sanguinetti, Logan T. Trujillo, David M. Schnyer, John J. B. Allen, Mary A. Peterson

23.324 **Direct neurophysiological measurement of surround suppression in humans** Marta Isabel Vanegas-Arroyave, Annabelle Blangero, Simon Kelly

23.325 **Ventral and dorsal streams in cortex: focal vs. ambient processing/exploitation vs. exploration** Bhavin Sheth, Ryan Young

23.326 **Anatomically-driven Visual Neural Model Assessments Predict Temporal Thresholds Associated with the Dorsal and Ventral Systems** Steven R. Holloway, Michael K. McBeath

23.327 **A bidirectional link between neuronal oscillations and geometrical patterns** Federica Mauro, Antonino Raffone, Rufin VanRullen

23.328 **Modulation of orientation discrimination in artificial scotoma zone with transcranial direct current stimulation** Latifa Lazzouni, Dave Saint-Amour

23.329 **Lateral interactions in schizophrenia: What is the role of spatial frequency?** Brian Keane, Sabine Kastner, Danielle Paterno, Genna Erlikhman, Steven Silverstein

23.330 **Testing the Stationary Variability Assumption in Signal Detection Theory** Carlos Cabrera, Zhong-Lin Lu, Barbara Doshier

23.331 **A Bayesian observer model constrained by efficient coding accounts for both attractive and repulsive biases** Xue-Xin Wei, Alan Stocker

23.332 **Computational Mechanisms Responsible for the Hermann Grid Illusion** Rosemary Le, David Alex Mely, Thomas Serre

23.333 **Border-ownership computation reflecting consistency of surface properties** Naoki Kogo, Vicky Froyen

23.334 **Normative Data for Forty, Morphing, Line Drawn Picture Sets** Elisabeth Stoetinger, Nazanin Mohammadi Sepahvand, Nadine Quehl, James Danckert, Britt Anderson

Perceptual organisation: Contours and surfaces

Saturday, May 17, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

23.335 **Properties of Spatiotemporal Boundary Formation** Gennady Erlikhman, Gideon Caplovitz, Philip Kellman

23.336 **Combination of contour convexity and accretion/deletion in the perception of relative depth** Ö. Dağlar Tanrikulu, Vicky Froyen, Lynn Ma, Jacob Feldman, Manish Singh

23.337 **Visual adaptation to symmetry** Elena Gheorghiu, Jason Bell, Frederick A.A. Kingdom

23.338 **Is 20/20 vision good enough? Visual acuity differences within the normal range alter performance on contour grouping tasks** Danielle Paterno, Brian Keane, Sabine Kastner, Steven Silverstein

23.339 **Contour integration and its independence from attention, awareness, and task-relevance** Michael Pitts, Antígona Martínez, Steve Hillyard

23.340 **Contour perception across time and eye movements** William Harrison, Peter Bex

23.341 **Conscious awareness is necessary for the integration of orthogonal but not collinear contours** Ya Li, Sheng Li

23.342 **Spatially-global interpolation of closed curves** Taekyu Kwon, Yunfeng Li, Michael Scheessele, Aaron Michaux, Zygmunt Pizlo

23.343 **Sparseness and Surface Representation in the Generation of Curvature Selectivity** Yasuhiro Hatori, Tatsuroh Mashita, Ko Sakai

Color and light: Lightness and brightness

Saturday, May 17, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

23.401 **When comparing illumination conditions observers rely more on cast shadows than on highlights and shading.** Susan F. te Pas, Sylvia C. Pont, Edwin S. Dalmaijer, Ignace T.C. Hooge

23.402 **The influence of scene layout and content on the perception of light direction in real scenes** Ling Xia, Sylvia Pont, Ingrid Heynderickx

23.403 **Predictive Coding of Shape Affects the Perceived Luminance of the Surrounding Region** Biao Han, Rufin VanRullen

23.404 **Influence of spatial structure with no explicit luminance information on lightness perception** Kei Kanari, Hirohiko Kaneko

23.405 **Luminance gradient configuration determines perceived lightness in a simple geometric illusion** Maria Pereverzeva, Scott O. Murray

23.406 **Size and color do matter in the prediction of brightness** Martijn Withoutck, Kevin A. G. Smet, Wouter R. Ryckaert, Jeroen Wattez, Geert Deconinck, Peter Hanselaer

23.407 **Temporal dynamics of brightness induction from motion in context** Sang Wook Hong, Min-Suk Kang

23.408 **Predicting lightness rankings from image statistics of matte and glossy surfaces** Matteo Toscani, Matteo Valsecchi, Karl Gegenfurtner

23.409 **Modeling asymmetric responses to increments and decrements in brightness, disk-annulus, and staircase-Gelb paradigms** Michael Rudd

23.410 **Why do failures of lightness constancy take the form of gamut compression?** Alan Gilchrist, Stephen Ivory

23.411 **Anchoring Theory, Staircase Gelb Effect, and Gamut Compression.** Stephen Ivory, Alan Gilchrist

23.412 **Goal-seeking approaches to characterize non-CRT as well as CRT displays for vision experiments** Hiroshi Ban, Hiroki Yamamoto

23.413 **The Perceived Quality of Undistorted Natural Images** David Kane, Marcelo Bertalmio

23.414 **A perceptually uniform tone curve for OLED and other high dynamic range displays** Andy Vargas, Paul Johnson, Joohwan Kim, David Hoffman

23.415 **A model of color constancy and efficient coding can predict lightness induction** Marcelo Bertalmio

23.416 **Chromatic and Luminance Asymmetries in the Watercolor Effect** Andrew Coia, Kamila Flake, Scott Arn, Gwen Amsrala, Michael Crognale

23.417 **Figure-ground inversion by neon-color spreading** Yong-Guk Kim

23.418 **Indirect and direct manipulation of saturation modulates the light levels at which brown stimuli can be perceived** Tanner DeLawyer, Steven Buck

Eye movements: Cognition

Saturday, May 17, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

23.419 **A Boundedly Optimal State Estimation & Control Model of Detecting Targets Among Salient Distractors** Christopher Myers, Nicole Jardine, Joseph Houpt, Andrew Howes, Richard Lewis

23.420 **Chess players' eye movements reveal rapid recognition of complex visual patterns** Heather Sheridan, Eyal Reingold

23.421 **Dissociating Semantic and Pragmatic Information in Eye Movement Data for Image Processing Tasks** Takeshi Suzuki, Yannik T. H. Schelske, Tandra Ghose

23.422 **Do task demands influence the perception of symmetry?** Sandra Utz, Claus-Christian Carbon

23.423 **The influence of spatio-temporal structure on sequential eye and arm movements to remembered visual targets** Tasneem Barakat, David C. Cappadocia, Khashayar Gharavi, Mazyar Fallah, J. Douglas Crawford

23.424 **The influence of prediction violations on eye movement patterns in a LTM-driven multi-step sensorimotor task** Rebecca M. Foerster, Werner X. Schneider

23.425 **The antisaccade task: Sensory- and motor-related costs to oculomotor planning** Jesse DeSimone, Gabriella Aber, Matthew Heath

23.426 **The asymmetrical weighting of target eccentricities within a trial block influences antisaccade endpoint bias** Caitlin Gillen, Jennifer Diamond, Matthew Heath

23.427 **Unidirectional switch-costs in oculomotor control are a result of a stimulus-response updating: Evidence from electroencephalography** Jeff Weiler, Cameron Hassall, Olave Krigolson, Matthew Heath

23.428 **The latencies of prosaccades are prolonged by both executed and planned (but not executed) prior antisaccades** Shanna Yeung, Cristina Rubino, Jayalakshmi Viswanathan, Jason Barton

23.429 **Influence of task switching on inhibition of return and scan paths** Mark Mills, Edwin Dalmaijer, Stefan Van der Stigchel, Michael D. Dodd

23.430 Modulation of alpha power by eye state during kinesthetic motor imagery (KMI) of a newly learned dance sequence in experts

Paula M Di Noto, Julie M Chartrand, Gaby Levkov, Joseph DeSouza

23.431 Actions in the Eye Stefan Mathe, Cristian Sminchisescu**23.432 Executive functioning can mediate age-related changes in oculomotor attentional disengagement** Benjamin Lester, Shaun Vecera, Matthew Rizzo**23.433 Infant Saccadic Behavior Influenced by Novelty and Familiarity of Stimuli in the Periphery** Lisa Cantrell, Richard Veale, Linda Smith**23.434 Attachment Style Influences Saccades** Jessica A. Maxwell, J. Eric T. Taylor, Jay Pratt, Penelope Lockwood**23.435 The sensory identification of word centers during reading: A Bayesian model** André Krügel, Ralf Engbert**23.436 Effects of perceptual expertise in detecting letter transpositions on QWERTY keyboards** Carl M. Mann, Valerie Benson, Nick Donnelly**23.437 Eye Movements of Dry Eye (DE) Patients During Reading.** William Ridder, III, Eric Borsting, Pat Yoshinaga, Hoang Vy Ha, Stephen Ridder**23.438 Using RSVP and Eye Movement Recording to Determine Usefulness of Information Content Definitions as Predictor for Reading Speed** Yannik T. H. Schelske, Tandra Ghose, Thomas M. Breuel**23.439 Predicting Visual Awareness by Looking into Eye Fixations** Chengyao Shen, Danyang Kong, Shuo Wang, Qi Zhao**Eye movements: Fixational**Saturday, May 17, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway**23.440 Microsaccades scan highly informative image areas** Michael McCamy, Jorge Otero-Millan, Leandro Luigi Di Stasi, Stephen Macknik, Susana Martinez-Conde**23.441 Influence of Microsaccades on Contrast Sensitivity: Theoretical Analysis and Experimental Results** Naghme Mostofi, Marco Boi, Michele Rucci**23.442 The characteristics of microsaccadic eye movements varied with the change of strategy in a match-to-sample task.** Claudio Simoncini, Anna Montagnini, Laurent U. Perrinet, Guillaume S. Masson**23.443 Spatial Distribution of Slow Involuntary Fixational Eye Movements is Related to the Occurrence of Microsaccades and Their Shapes** Debashis Sen, Chengyao Shen, Mohan Kankanhalli, Zhi Yang, Qi Zhao**23.444 Characteristics of square-wave jerks in the macaque monkey** Francisco Costela, Jorge Otero-Millan, Michael McCamy, Stephen Macknik, Xoana Troncoso, Ali Najafian, Susana Martinez**23.445 Hypobaric hypoxia increases intersaccadic drift velocity** Leandro L. Di Stasi, Raúl Cabestrero, Michael B. McCamy, Francisco Ríos, Andrés Catena, Pilar Quirós, Jose A. Lopez, Carolina Saez, Stephen L. Macknik, Susana Martinez-Conde**23.446 Fixation strategies revealed by the retinal imaging** Girish Kumar, Susana Chung**23.447 Non-Foveating Saccades and Fixations** Helga Mazyar, Bosco Tjan**23.448 Investigating task-dependent and stimulus-driven mechanisms of fixational saccades when detecting or discriminating a stimulus** Sara Spotorno, Anna Montagnini**Face perception: Neural mechanisms**Saturday, May 17, 8:30 am - 12:30 pm
Poster Session, Pavilion**23.501 Increasing extent of category selectivity with increasing power.** Joseph Arizpe, Dwight Kravitz, Emily Bilger, Chris Baker**23.502 Representations of individual faces in the right anterior temporal lobe are invariant across different partial views of faces.** Stefano Anzellotti, Alfonso Caramazza**23.503 Exploring the functional organization of the superior temporal sulcus with a broad set of naturalistic stimuli** Ben Deen, Nancy Kanwisher, Rebecca Saxe**23.505 A single mechanism of temporal integration unites neural adaptation and norm-based coding** Marcelo Gomes Mattar, David Alexander Kahn, Geoffrey Karl Aguirre**23.506 Using Functional Magnetic Resonance Imaging to Explore the Flashed Face Distortion Effect** Tanya Wen, Chun-Chia Kung**23.507 Probing the representation of face and object orientation in human ventral visual cortex** Fernando Ramirez, Carsten Allefeld, John-Dylan Haynes**23.508 Face configuration processing in monkey cortex** Qi Zhu, Wim Vanduffel**23.509 Expectations of faces and words differentially activate the primary visual cortex** Jianguo Liu, Xin Jiang, Pu Zheng, Kang Lee**23.510 Consecutive TMS-fMRI: Remote effects of OFA disruption on the face perception network** Lily M. Solomon-Harris, Jennifer K.E. Steeves**23.511 The Occipital Face Area is Causally Involved in Viewpoint Symmetry Judgments of Faces** Tim C Kietzmann, Sam Ling, Sonia Poltoratski, Peter König, Randolph Blake, Frank Tong**23.512 What is a face?** Talia Brandman, Galit Yovel**23.513 Face animacy does not impact the N170 inversion effect** Alyson Saville, Carol Huynh, Benjamin Balas**23.514 Influence of autistic-like and empathetic traits on early ERPs to emotional faces** Roxane J. Itier, Karly N. Neath**23.515 Frequency coding of facial parts** Nicolas Dupuis-Roy, Daniel Fiset, Kim Dufresne, Frédéric Gosselin**23.516 The N170 is driven by the presence of horizontal facial structure** Ali Hashemi, Matthew V. Pachai, Patrick J. Bennett, Allison B. Sekuler**23.517 Effects of inversion and contrast-reversal on objective face detection thresholds revealed by sweep steady-state visual evoked potentials** Joan Liu-Shuang, Justin Ales, Anthony Norcia, Bruno Rossion**23.518 Dissociation of Part-Based and Whole-Based Neurophysiological Responses to Faces by Means of EEG Frequency-Tagging** Bruno Rossion, Anthony Norcia, Adriano Boremanse**23.519 Integrative processing of age, gender and ethnicity of faces: an ERP study** Esther Alonso-Prieto, Jason J S Barton**23.520 The time-course of face-selective ERP activation during ultra-rapid saccades** Jacob Martin, Max Riesenhuber, Simon Thorpe

3D Perception: Space

Saturday, May 17, 8:30 am - 12:30 pm

Poster Session, Pavilion

- 23.521 **Outer-edge Disparity Determines The Depth of Panum's Limiting Case and Classical Stereopsis** Huayun Li, Laipeng Jing, Ruoyun Xu, Dongchuan Yu
- 23.522 **Background Texture Nonlinearly Modulates Distance Effect on Perceived Size** Chia-Ching Wu, Chien-Chung Chen
- 23.523 **Miscalibration of depth cues in the developing visual system** Marko Nardini, Katarina Begus, Denis Mareschal
- 23.524 **Shape aftereffects reflect shape constancy operations: Appearance matters** Katherine Storrs, Derek Arnold
- 23.525 **Correct blur and accommodation information is a reliable cue to depth ordering.** Marina Zannoli, Rachel A. Albert, Abdullah Bulbul, Rahul Narain, James F. O'Brien, Martin Banks
- 23.526 **Are blur and disparity complementary cues to depth?** Michael Langer, Ryan Siciliano
- 23.527 **Modulation of distance estimation of visual object by stimulation of vergence and accommodation** Masahiro Ishii
- 23.528 **Judgments of egocentric distance within indoor and outdoor environments: Context matters with restricted and unrestricted fields of view.** Daniel A. Gajewski, Sandra Mihelič, Courtney P. Wallin, John W. Philbeck
- 23.529 **Both own and other object shadows compress perceived distance** Christopher Kuylén, Benjamin Balas, Laura Thomas
- 23.530 **Large systematic biases in pointing to real and virtual unseen targets.** Jenny Vuong, Lyndsey C. Pickup, Andrew Glennerster
- 23.531 **Direct manipulation of perceived angular declination affects perceived size and distance: A replication and extension of Wallach and O'Leary (1982).** Morgan Williams, Frank Durgin
- 23.532 **Extending Size Constancy Illusions from 2-D to 3-D Stimuli** Joshua Dobias, Anuja Sarwate, Thomas Papathomas
- 23.533 **Electrophysiological correlates of size constancy** Irene Sperandio, Juan Chen, Melvyn Goodale
- 23.534 **Depth detection thresholds for disparate subjective occluders decrease with inducer entropy.** Barbara J Gillam, Barton L. Anderson
- 23.535 **What is stable in visual stability?** Andrew Glennerster
- 23.536 **Which way is up in the horizontal-vertical illusion?** Brennan Klein, Zhi Li, Durgin Frank
- 23.537 **Water Flows Uphill: A Visual Illusion and Its Explanation** Wenxun Li, Ethel Matin, Leonard Matin
- 23.539 **Short-term visual memory for stereoscopically-defined depth** Adam Reeves, Quan Lei
- 23.540 **Effect of Different Directions of Attentional Shift on Inhibition of Return in Three-dimensional Space** Aijun Wang, Qi Chen, Ming Zhang
- 23.541 **Visual image encoding and transformation processes in three dimensional immersive virtual environments** Maria Kozhevnikov
- 23.542 **Does gaze declination contribute to shape constancy on level ground? A comparison of perceived shapes on outdoor hills and fields** Zhi Li, Frank Durgin
- 23.543 **Angular expansion theory turned on its side** Frank Durgin, Zhi Li, Brennan Klein

Visual memory: Mechanisms and models

Saturday, May 17, 8:30 am - 12:30 pm

Poster Session, Pavilion

- 23.544 **Guidance of object-based attention from neural signatures of memory** J. Benjamin Hutchinson, Nicholas B. Turk-Browne
- 23.545 **Practice abolishes similarity's influence on VSTM-induced interference on perception** Nicholas M. Van Horn, Alexander A. Petrov
- 23.546 **Bayesian adaptive estimation of the sensory memory decay function: the quick Partial Report method** Jongsoo Baek, Luis Lesmes, Zhong-Lin Lu
- 23.547 **The unformativeness of summary statistics for comparing working memory models** Wei Ji Ma, Ronald Van den Berg
- 23.548 **Models of color working memory with color perception as a variable** Gi-Yeul Bae, Maria Olkkonen, Sarah Allred, Colin Wilson, Jonathan Flombaum
- 23.549 **The Binding Pool model of VWM: A model for storing individuated objects in a shared resource pool** Garrett Swan, Brad Wyble
- 23.550 **Compensation Mechanisms for Poor Filtering Ability in Visual Working Memory** Ayala S. Allon, Roy Luria
- 23.551 **When common-fate fails: The limited reach of Gestalt grouping cues in online object binding in visual working memory** Halely Balaban, Roy Luria
- 23.552 **Neural Signatures of Visual Memorability: Memory in the First Perception of an Image** Wilma A. Bainbridge, Aude Oliva
- 23.553 **Dissociable Neural Mechanisms for Capacity & Resolution in Visual Working Memory** Marcus Cappiello, Weizhen Xie, Weiwei Zhang
- 23.554 **The Neural Fate of Individual Item Representations in Visual Working Memory** Gennadiy Gurariy, Dwight Peterson, Marian Berryhill, Gideon Caplovitz
- 23.555 **The effect of biased competition within sequential displays on visual short-term memory** Claire E. Miller, Niklas Ihssen, David E. J. Linden, Kimron L. Shapiro
- 23.556 **Fine-grained representation of visual object information retrieved from long-term memory** Sue-Hyun Lee, Dwight Kravitz, Chris Baker
- 23.557 **Sharp emergence of working memories along the primate dorsal visual pathway** Diego Mendoza-Halliday, Santiago Torres, Julio Martinez-Trujillo
- 23.558 **Right-hemisphere dominance in visual working memory for color-shape binding** Jun Saiki
- 23.559 **A link between brain structure/connectivity and visual short-term memory capacity** Ilja G. Sligte, Andries R. van der Leij, Kimron L. Shapiro, H. Steven Scholte
- 23.560 **Probing the neural basis of visual working memory: A validation study using fMRI and fNIRS** Sobanawartiny Wijekumar, Vincent Magnotta, Aaron Buss, John Spencer
- 23.561 **Using EEG to assess the relationship between load-dependent changes in alpha-band power and visual cortex excitability** Andrew Heinz, Jeffrey Johnson

Object recognition: Reading

Saturday, May 17, 8:30 am - 12:30 pm

Poster Session, Pavilion

23.562 **The remarkably fast temporal resolution of feature integration in letter perception** Ron Chu, Steve Joordens

23.563 **Individual differences in visual lexical decision are highly correlated with orientation tuning** Justin Duncan, Jessica Royer, Geneviève Forest, Daniel Fiset

23.564 **An optimal viewing position for object processing** Lotje van der Linden, Françoise Vitu

23.565 **Context effects in reading depend on reading speed and print size** Steve Mansfield, Kelsey Hanrahan

23.566 **Word-length Effects and Word Inversion Effects: A Study of Perceptual Transforms in the Reading of Single Words** Laura Eklinder Björnstrom, Charlotte Hills, Hashim Hanif, Jason Barton

23.567 **Learning to read upside-down: a study of perceptual expertise and acquisition** Cristina Rubino, Elsa Ahlen, Charlotte S. Hills, Hashim M. Hanif, Jason J. S. Barton

23.568 **Processing of words and text in prosopagnosia** Charlotte Hills, Cristina Rubino, Claire Sheldon, Raika Pancaroglu, Jodie Davies-Thompson, Jason Barton

23.569 **Symbolic object representation in visual cortex** Jodie Davies-Thompson, Taim Muayqil, Jason JS Barton

23.570 **Representation of word identity and font in visual cortex** Lars Strother, Alexandra Coros, Tutis Vilis

23.571 **Orthographic and lexical sensitivity to words in the ventral occipitotemporal cortex** Qiuqie Weng, Hao Zhou, Lan Wang, Sheng He

23.572 **Neural correlates of font sensitivity effects in the perception of simplified and traditional Chinese characters** Tianyin Liu, Janet Hui-wen Hsiao

23.574 **Writing reduces holistic processing but does not facilitate reading: The case in Chinese children with developmental dyslexia.** Ricky Van-yip Tso, Cecilia Nga-wing Leung, Terry Kit-fong Au, Janet Hui-wen Hsiao

23.575 **Development and Validation of a Chinese Reading Acuity Chart** Lin-Juan Cong, Cong Yu, Lei Liu

23.576 **An Art Meets Science: Subtle Typeface Design Characteristics Affect Word Legibility in Brief Glances** Jonathan Dobres, Nadine Chahine, Bryan Reimer, David Gould, Bruce Mehler, Brahma Pugh, Stephen Arredondo

Object recognition: Categories

Saturday, May 17, 8:30 am - 12:30 pm

Poster Session, Pavilion

23.577 **Exploring the representational geometry of object representation in the ventral stream using brain-behavior correlations** Michael A. Cohen, Talia Konkle, Ken Nakayama, George A. Alvarez

23.578 **Emergence of orientation invariant representations within the visual cortex** Morgan Henry, George A. Alvarez

23.579 **Differential rate of temporal processing across category-selective regions in human high-level visual cortex** Anthony Stigliani, Kevin S. Weiner, Kalanit Grill-Spector

23.580 **Real-world size improves object recognition in visual form agnosia** Jacqueline Snow, Taylor Coleman, Melvyn Goodale

23.581 **fMRI activation and connectivity in the dorsal and ventral visual streams for elongated and stubby tools and non-tools** Juan Chen, Melvyn Alan Goodale, Jody C Culham, Jacqueline C Snow

23.582 **Concept Formation and Categorization of Complex, Asymmetric and Impossible Figures** Sarah Shuwairi, Rebecca Bainbridge, Gregory Murphy

23.583 **Comparison of Object Recognition Behavior in Human and Monkey** Rishi Rajalingham, Kailyn Schmidt, James J. DiCarlo

23.584 **The clash of visual categories** Marlène Poncet, Ramakrishna Chakravarthi, Michèle Fabre-Thorpe

23.585 **Contextual modulation of competing interpretations in early object recognition** Mohammed Islam, Thomas Sanocki

23.586 **Greater Oxygenation of Prefrontal Cortex During Information-Integration (vs. Rule-Based) Category Learning** Audrey Hill, Corey Bohil, Andrew Wismer

23.587 **P300 variability during target detection in natural images: Implications for single-trial classification** Jon Touryan, Amar Marathe, Anthony Ries

23.588 **Does Implicit Learning Play a Role in Base-rate Sensitivity?** Andrew Wismer, Corey Bohil

Saturday Afternoon Talks

Eye movements: Perception and mechanisms

Saturday, May 17, 2:30 - 4:15 pm

Talk Session, Talk Room 1

Moderator: Michele Rucci

24.11, 2:30 pm **Natural vision effects on contrast sensitivity and their correlation with macaque V1 activity** James Niemeyer, Michael Paradiso

24.12, 2:45 pm **Representing space in time during ocular drift** Claudia Cherici, Murat Aytakin, Michele Rucci

24.13, 3:00 pm **Binocular head/eye coordination during natural fixation** Martina Poletti, Murat Aytakin, Michele Rucci

24.14, 3:15 pm **High-precision control of binocular gaze** Matteo Valsecchi, Karl R. Gegenfurtner

24.15, 3:30 pm **Eye-movements and the neural basis of context effects on temporal sensitivity** Qasim Zaidi, Robert Ennis, Dingcai Cao, Barry Lee

24.16, 3:45 pm **Dissociating temporal inhibition of return and saccadic momentum across multiple eye-movement tasks** Steven G. Luke, Tim J. Smith, Joseph Schmidt, John M. Henderson

24.17, 4:00 pm **The pupillary light response reflects eye-movement preparation** Sebastiaan Mathôt, Lotje van der Linden, Grainger Jonathan, Françoise Vitu

Spatial vision: Crowding and context

Saturday, May 17, 5:15 - 6:45 pm

Talk Session, Talk Room 1

Moderator: Ruth Rosenholz

25.11, 5:15 pm **Crowding, grouping, timing** Mauro Manassi, Aaron Clarke, Vitaly Chicherov, Michael H. Herzog

25.12, 5:30 pm **Effects of grouping on crowding with informative flankers** Shaiyan Keshvari, Ruth Rosenholz

25.13, 5:45 pm **Saccades alter crowding in the parafovea** Laura Walker, Saeideh Ghahghaei

25.14, 6:00 pm **Peripheral object recognition with informative natural context** Ruth Rosenholz, Maarten Wijntjes

25.15, 6:15 pm **Highly abnormal visual context processing in older adults** Michael Melnick, Kevin Dieter, Duje Tadin

25.16, 6:30 pm **Localized BOLD fMRI Responses in V1 Reflect a Task-Dependent Mixture of Luminance Contrast and Pattern Context during Iso-Orientation Surround Suppression** Michael-Paul Schallmo, Stefan R. Brancel, Andrea N. Grant, Cheryl A. Olman

Face Perception

Saturday, May 17, 2:30 - 4:15 pm

Talk Session, Talk Room 2

Moderator: Christian Wallraven

24.21, 2:30 pm **An Account of the Face Configural Effect** Irving Biederman, Xiaokun Xu, Manan Shah

24.22, 2:45 pm **Perceptual integration of kinematic components for the recognition of emotional facial expressions** Enrico Chiovetto, Cristóbal Curio, Dominik Endres, Martin Giese

24.23, 3:00 pm **Configural and featural facial information: integrality in normal face processing, separability in prosopagnosia** Ruth Kimchi, Marlene Behrmann, Galia Avidan, Rama Amishav

24.24, 3:15 pm **Retinotopic priors for eyes and mouth in face perception and face sensitive cortex** Benjamin de Haas, D. Samuel Schwarzkopf, Ivan Alvarez, Linda Henriksson, Nikolaus Kriegeskorte, Geraint Rees

24.25, 3:30 pm **Data driven identification of functional organization** Jason Webster, Ione Fine

24.26, 3:45 pm **Making eye contact without awareness** Apoorva Rajiv Madipakkam, Marcus Rothkirch, Erik Rehn, Philipp Sterzer

24.27, 4:00 pm **Valence and arousal underlie evaluation of emotional and conversational facial expressions across cultures** Christian Wallraven, Ahyoung Shin, Felix Biessmann

Visual search: Eye movements and mechanisms

Saturday, May 17, 5:15 - 6:45 pm

Talk Session, Talk Room 2

Moderator: Christian P. Jansen

25.21, 5:15 pm **Reinforcement modifies visual search in a structured background** Celine Paeye, Alexander Schütz, Karl Gegenfurtner

25.22, 5:30 pm **The dominance of color in guiding visual search: Evidence from mismatch effects** Robert Alexander, Gregory Zelinsky

25.23, 5:45 pm **Finding people in scenes: neural decoding target presence during search of dynamic scenes** Eamon Caddigan, Barry Giesbrecht, Miguel Eckstein

25.24, 6:00 pm **The influence of salience-driven processes in overt visual selection** Mieke Donk

25.25, 6:15 pm **The low-prevalence effect is due to failures of attention, not premature search termination or motor errors: Evidence from passive search and eye-movements.** Michael Hout, Steve Walenchok, Stephen Goldinger, Jeremy Wolfe

25.26, 6:30 pm **Stop & think: Looking into a scotoma** Christian P. Janssen, Preeti Verghese

Saturday Afternoon Posters

Development: Lifespan

Saturday, May 17, 2:45 - 6:45 pm
Poster Session, Jacaranda Hall

- 26.301 **The Reliability of Infant Accommodation and Vergence Responses in the Absence of Blur or Disparity Cues** T. Rowan Candy, Erin Babinsky, Tawna L. Roberts, Vivian Manh
- 26.302 **Effects of External Noise on Contrast Sensitivity for Intact and Scrambled Faces in Infants** Karen Dobkins, Emily Blumenthal, Melissa McIntire, Suzanne McDonald, Holly Bergen
- 26.303 **Infants' visual fixations to novel objects after individual-level training** Eswen Fava, Lisa Scott
- 26.304 **An analysis of optic flow observed by infants during natural activities** Florian Raudies, Rick Gilmore
- 26.305 **Anticipatory Looking Paradigm for Visual Categorization in Infants** Samuel Rivera, Vladimir Sloutsky
- 26.306 **Development of Category-Selective Domains in Infant Macaque Inferotemporal Cortex** Margaret Livingstone, Justin Vincent, Tristram Savage, Krishna Srihasam
- 26.307 **Cortical Correlates of Global Form and Motion in Infant Macaque Monkeys: A Comparison of hdEEG and Behavioral Responses** Angela Voyles, Anthony M. Norcia, Lynne Kiorpes
- 26.308 **Developing Time-Based Visual Selection: The Preview Task in Children** Zorana Zupan, Elisabeth Blagrove, Derrick Watson
- 26.309 **Effects of Eccentricity on Infants' Change Preference in a VSTM Task** Mee-Kyoung Kwon, Steven Luck, Lisa Oakes
- 26.310 **The Claim that Pre-School Children are Insensitive to Nonaccidental vs. Metric Shape Properties Challenged by Biologically-Based Shape Scaling** Ori Amir, Irving Biederman
- 26.311 **Age-related differences in visuo-haptic integration** Jutta Billino, Knut Drewing
- 26.312 **Without social cues it's male: Children perceive amorphous drawing of adults as male, but less so in social contexts** Aenne Briemann, Margarita Stolarova
- 26.313 **Visual search performance and IQ in 2-year-olds** Annalisa Groth, Sylvia Guillory, Erik Blaser, Zsuzsa Kaldy
- 26.314 **Development of audiovisual integration in central and peripheral vision** Yi-Chuan Chen, Terri L. Lewis, David I. Shore, Daphne Maurer
- 26.315 **Reduced Perceptual Narrowing in Synaesthesia: Discrimination of Native and Non-native Stimuli.** Julian K. Ghouloum, Laura C. Gibson, Marcus Watson, Kathleen Akins, Lawrence Chen, James T. Enns, Janet F. Werker, Daphne Maurer
- 26.316 **Neural correlates of own- and other-race face recognition in preschoolers: A functional near-infrared spectroscopy (fNIRS) study** Xiao Pan Ding, Genyue Fu, Kang Lee
- 26.317 **A Horse of a different color: Early visual environments in an Indian community** Swapna Jayaraman, Linda Smith
- 26.318 **Aging and the effect of size information on the control of braking** Zheng Bian, George Andersen
- 26.319 **Colour discriminability and flicker sensitivity measures improve detection rates of early Age-related Macular Degeneration.** Matilda Biba, John Barbur

Perceptual organization: Segmentation, shapes and objects

Saturday, May 17, 2:45 - 6:45 pm
Poster Session, Jacaranda Hall

- 26.320 **Impaired perception of rigidity induced by the amodal completion of 3D structures in active and passive vision** Carlo Fantoni, Walter Gerbino, Elena Milani, Fulvio Domini
- 26.321 **Local Perturbations to a Global Radial Frequency Masker Alleviate Lateral Masking Effects** Michael Slugocki, Allison Sekuler, Patrick Bennett
- 26.322 **Configural superiority reduces efficiency** Alexander Bratch, Aparna Srinath, Shawn Barr, William Bromfield, Jason Gold
- 26.323 **The Role of Feedback Processes in the Emergence of Visual Hallucinations** Christoph Teufel, Naresh Subramaniam, Veronika Dabler, Ian Goodyer, Paul Fletcher
- 26.324 **Seeing and liking from the outside in: Consistent inward biases in visual perception and aesthetic preferences** Yi-Chia Chen, Brian Scholl
- 26.325 **Shape distortion illusion of circles without prolonged viewing** Kenzo Sakurai
- 26.326 **Asymmetry in Perceived Shape Similarity for Novel Shapes** Patrick Garrigan, Katie Binns
- 26.327 **Perceived Occlusion Velocity for Fully Visible and Fragmented Shapes** Ricarda Moses, Tandra Ghose, Gennady Erlikhman, Philip J. Kellman
- 26.328 **Contextual Information Modulates Unconscious Visual Processing in Early Visual Cortex** Lihong Chen, Yi Jiang
- 26.329 **Looking Beyond the Means: Rapid Learning of Prime-Display Relationship in a Semantic Priming Experiment** Alisabeth Ayars, Andrew Mojica, Mary A Peterson
- 26.330 **Global Influences on Figure Assignment: The Role of the Border** Michelle Burrola, Mary A. Peterson
- 26.331 **Using Extremal Edge to Decouple Closeness and Shape in Figure-Ground Perception** Tandra Ghose, Mary A. Peterson
- 26.332 **Context Effects on Figure-Ground Perception with Both Convexity and Extremal Edge Cues** Katharina Mura, Tandra Ghose, Mary A. Peterson
- 26.333 **Neural Signals Underlying the Convexity Context Effect** Jordan Lass, Ali Hashemi, Patrick Bennett, Mary Peterson, Allison Sekuler
- 26.334 **Can infants (5.5 months-old) use object repetition to segment objects from their backgrounds?** Elizabeth Salvaggio, Rebecca L. Gomez, Mary A. Peterson
- 26.335 **Closure and global shape contributions to contour grouping** Ingo Fründ, James H Elder
- 26.336 **Invariants of center-surround interactions** Sunwoo Kwon, Thomas Albright, Sergei Gepshtein
- 26.337 **Mechanisms of motion-based object segregation** Woon Ju Park, Dujie Tadin
- 26.338 **Perceptual Characteristics of Natural Contours and Their Contributions to Figure/Ground Segregation** Ko Sakai, Ken Kurematsu, Shohei Matsuoka

Motion Perception: Depth, higher order, illusions

Saturday, May 17, 2:45 - 6:45 pm
Poster Session, Banyan Breezeway

- 26.401 **What do human observers see in dynamic image deformation?** Takahiro Kawabe, Kazushi Maruya, Shin'ya Nishida
- 26.402 **Perception at isoluminance: Role of spatial resolution and background colour.** Mark Edwards, Kimbra Ransley, Jason Bell, Stephanie Goodhew
- 26.403 **A paradox: Apparent onset locations for moving stimuli are more extrapolated following illusory reductions in speed.** Paul Miller, Derek Arnold
- 26.404 **Competing motion signals compromise to discrete perception** Ryohei Nakayama, Isamu Motoyoshi, Takao Sato
- 26.405 **Jumping Frogs: Prior Knowledge Influences the Ternus Effect** Patty Hsu, Wil Cunningham, Jay Pratt
- 26.406 **Revisiting the on-time effect: shorter exposure to static stimuli increases perceived velocity in apparent motion** Alon Zivony, Dominique Lamy
- 26.407 **Rotating Snakes Illusion – Quantitative analysis reveals islands in luminance space with opposite illusory rotation** Michael Bach, Lea Gérard
- 26.408 **Perception of Illusory Motion in the Rotating Snake by the Aged: Pupil Size and Retinal Illumination** Patricia Cisarik, Gabriel Fickett
- 26.409 **Illusory rotation and motion capture in Pinna illusion depend upon grouping of the superimposed elements.** Makoto Ichikawa, Yuko Masakura
- 26.410 **The effect of noise on motion binding is similar in younger and older adults** Jessica N. Cali, Patrick J. Bennett, Allison B. Sekular
- 26.411 **Walking with Cornsweet: Polarity Reversals Induce Illusory Motion Percepts** Christopher Blair, Lars Strother, Gideon Caplovitz
- 26.412 **Temporal Context Effect is not Specific to Brightness** Joshua Erb, Chris Davies, Jorge Morales, Hakwan Lau
- 26.413 **Can Preferential Looking be Used to Assess Depth Perception in Infants Who Are too Young to Reach?** Vanessa Adamson, Tobias Donlon, Sherryse Corrow, Albert Yonas
- 26.414 **Systematic biases in 3D motion perception as a function of sensory uncertainty** Jacqueline M. Fulvio, Monica L. Rosen, Bas Rokers
- 26.415 **Examining the role of eye movements in the size-speed illusion.** Helen E. Clark, John A. Perrone
- 26.416 **Minimum Motion/Pursuit Ratios for Unambiguous Depth Perception from Motion Parallax** Jessica Holmin, Mark Nawrot
- 26.417 **Illusory perception of alternating vertical apparent motion in sequential random texture displays** Jake Smith, Yeram Cheong, John Rogers, Nicolas Davidenko
- 26.418 **Sensitivity to Newtonian mechanical regularities in causal perception: Evidence from attention** Jonathan Kominsky, Brent Strickland, Frank Keil
- 26.419 **Differentiating between object-dependent and transient-dependent motion percepts through crowding** Zheng Ma, Michael McCloskey, Jonathan Flombaum
- 26.420 **Tilt-rate perception in vehicle simulation: the role of motion, vision and attention** Paolo Pretto, Alessandro Nesti, Suzanne Nooij, Martin Losert, Heinrich Bühlhoff

- 26.421 **Automatic selection during simultaneous motion processing** Reuben Rideaux, Mark Edwards
- 26.422 **Facial feature changes are hard to track in the color wagon-wheel illusion** Arthur Shapiro, William Kistler
- 26.423 **1st and 2nd order stimuli reaction time measures are very sensitive to mild traumatic brain injuries.** Jean-Claude Pisonnier, Robert Forget, Isabelle Gagnon, Michelle Mckerral, Jean-François Giguère, Jocelyn Faubert
- 26.424 **Deterioration of visual motion perception in mesopic vision** Sanae Yoshimoto, Mariko Uchida-Ota, Katsunori Okajima, Tatsuto Takeuchi

Motion Perception: Neural mechanisms

Saturday, May 17, 2:45 - 6:45 pm
Poster Session, Banyan Breezeway

- 26.425 **The Responses of On-Off Directionally Selective Retinal Ganglion Cells to Sudden Motion-Onset** Timothy Gawne, Allan Dobbins, Franklin Amthor
- 26.426 **Effect of continuous theta burst stimulation (cTBS) of human brain areas MT+ and V1 on color and motion perception.** Shaleeza Kaderali, Yeon Jin Kim, Alexandre Reynaud, Kathy T. Mullen
- 26.427 **Interpolated visual features during apparent motion are represented in primary visual cortex** Ariana Familiar, Edmund Chong, Won Mok Shim
- 26.428 **Global versus local: double dissociation between MT+ and V3a in motion processing revealed by a TMS study** Nihong Chen, Peng Cai, Fang Fang
- 26.429 **Abnormal contrast saturation in V5/MT+ following damage to V1** Sara Ajina, Christopher Kennard, Geraint Rees, Holly Bridge
- 26.430 **Dynamic neural encoding of component directions of transparently moving stimuli in cortical area MT** Xin Huang, Jianbo Xiao
- 26.431 **Battenberg summation reveals larger psychophysical receptive fields for motion signals** Thomas McDougall, J. Edwin Dickinson, David R. Badcock
- 26.432 **Interaction of color-defined and luminance-defined motion signals in human visual cortex** Ichiro Kuriki, Hongfei Xie, Rumi Tokunaga, Kazumichi Matsumiya, Satoshi Shioiri
- 26.433 **Detection of phi and reverse-phi direction-specific responses using the steady-state VEP** Keiko Momose, Alexandra Yakovleva, Anthony Norcia
- 26.434 **A direct measure of the role of attention in apparent motion** Francesca Pei, Anthony Norcia
- 26.435 **Behavioral consequences of perceptual decision-making in oculomotor brain structures** Sung Jun Joo, Alexander C. Huk
- 26.436 **MEG Beta band oscillations index perceptual form/motion integration** Jean Lorenceau, Charles Aissani, Jacques Martinerie, Lydia Yahia Cherif, Anne-Lise Paradis
- 26.437 **The effect of attention and dot coherence on fMRI responses to 3D structure-from-motion** Cheng Qiu, Daniel Kersten, Cheryl A. Olman
- 26.438 **fMRI correlates of visual motion processing in hearing and deaf adults** Alexandra Levine, Shradha Billawa, Laura Bridge, Sally Clausen, Mark Hymers, Heidi Baseler

Perception and action: Neural mechanisms

Saturday, May 17, 2:45 - 6:45 pm

Poster Session, Pavilion

26.501 **Sensorimotor and cognitive changes following exercise with and without subconcussive head trauma** Stuart Red, Alex Hacopian, Anne Sereno

26.502 **Rhythmic oscillations of visual contrast sensitivity triggered by voluntary action** Alice Tomassini, Marco Jacono, Giulio Sandini, Donatella Spinelli, Concetta Morrone

26.503 **“On the same wavelength”: interpersonal alpha synchronization improves visual-motor coordination** Aleksandra Sherman, David Brang, Casey Noble, Marcia Grabowecky, William Horton, Vernon L. Towle, James X. Tao, Satoru Suzuki

26.504 **Temporal Stability of Reference Frames in a 3D Reaching Task in Monkey Area V6A** Patrizia Fattori, Kostas Hadjidimitrakis, Federica Bertozzi, Rossella Breveglieri, Claudio Galletti

26.505 **Neural substrates for allocentric-to-egocentric conversion of target representation for memory-guided reach** Ying Chen, J. Douglas Crawford

26.506 **The event related potential technique and microstate analysis of memory guided and visually guided movements.** Darian Cheng, Krista Fjeld, Gordon Binsted

26.507 **Correct action affordance among unattended objects reduces their competition for representation in V4** Erica Wager, Glyn W. Humphreys, Paige E. Scalf

26.508 **Neural bases of planning and execution of functional grasps: an fMRI study** Lukasz Przybylski, Szymon Bidula, Mikolaj Pawlak, Gregory Kroliczak

26.509 **Tool use and representations of reachable space in the superior parietal lobe** Kristen Macuga, Scott Frey

26.510 **Hand-dependent and hand-independent cerebral asymmetries in the praxis representation network during planning of functional grasps** Gregory Kroliczak, Lukasz Przybylski, Szymon Bidula, Mikolaj Pawlak

26.511 **Visual information shapes the dynamics of cortico-basal ganglia pathways during perceptual response selection and inhibition** Sara Jahfari, Lourens J. Waldorp, K. Richard Ridderinkhof, H. Steven Scholte

26.512 **Revisiting touch observation in anterior parietal cortex: vicarious activation in somatosensory cortex?** Annie Chan, Chris Baker

26.513 **Are You Gonna Eat That? (Your brain says “yes,” but your body says “maybe.”)** Jason Flindall, Kayla Stone, Claudia Gonzalez

26.514 **2D vs 3D visualization modalities and their effects on motor related potentials** Teresa Sollfrank, Daniel Hart, Rachel Goodsell, Jonathan Foster, Andrea Kübler, Tele Tan

Attention: Capture

Saturday, May 17, 2:45 - 6:45 pm

Poster Session, Pavilion

26.515 **The Effects of Spatial and Temporal Predictability on Reaction Time in a Continuous Performance Task: Predicting Where but Not When.** Benjamin DeCorte, Amanda van Lamsweerde, Melissa Beck

26.516 **Effects of implicit learning and explicit knowledge on the spatial suppression of irrelevant distractors** Yoolim Hong, Rachael E. Gwinn, Andrew B. Leber

26.517 **Task-irrelevant attentional capture by salient expanding motion** Michiteru Kitazaki, Yuta Murofushi, Jun Kawahara

26.518 **Biasing attention with a surprise non-singleton feature** Gernot Horstmann

26.519 **Targets previously associated with a unique response attract attention** Rachael E. Gwinn, Andrew B. Leber

26.520 **Categorical capture of attention** Caroline Barras, Dirk Kerzel

26.521 **Semantic Priming Produces Contingent Attentional Capture by Conceptual Content** Charles Folk, Alex Berenato, Brad Wyble

26.522 **Task-irrelevant faces capture attention regardless of perceptual load** Shiori Sato, Jun Kawahara

26.523 **The role of biological form in reflexive orienting** Alvin X. Li, Maria Florendo, Luke E. Miller, Ayse P. Saygin

26.524 **Attentional capture by signals of threat** Jan Theeuwes, Lisette J. Schmidt, Artem V. Belopolsky

26.525 **The Role of Rapid Disengagement in Overcoming Attentional Capture** Tashina Graves, Hrag Pailian, Howard Egeth

26.526 **An Inability to Set Independent Attentional Control Settings by Hemisphere** Mark W. Becker, Susan M. Ravizza, Chad Peltier

26.527 **Capturing Attention: Fixation Not Required** Joanna Lewis, Mark Neider

26.528 **Correction of distractor-bound saccades depends on available evidence of error.** Nicholas DiQuattro, Joy Geng

26.529 **Dual processes of oculomotor capture by abrupt onset: Rapid involuntary capture and sluggish voluntary prioritization** Yue Qi, Feng Du, Xingshan Li, Kan Zhang

26.530 **The Effect of Simulated Red Light Running Camera Flashes on Attention and Oculomotor Control** Walter Boot, Robert Sall, Timothy Wright

26.531 **Functional Fixedness: The Functional Significance of Delayed Attentional Disengagement Based on Attention Sets** Timothy Wright, Walter Boot

Attention: Endogenous and exogenous

Saturday, May 17, 2:45 - 6:45 pm

Poster Session, Pavilion

26.532 **Spatial attention in the visual field: a unitary system?** Yan Bao

26.533 **Balancing internal and external attention: mind-wandering variability predicts error awareness** Micah Allen, Jonathan Smallwood, Geraint Rees

26.534 **Expectation and IOR: Effects on eye movements and ESP** Alex Gough, Jim Zhou, Zachary Livshin, Bruce Milliken, David Shore

26.535 **Inhibition of return affects contrast sensitivity** Ayelet Sapir

26.536 **The relationship between contrast detection and saccadic reaction times with attention.** Madhumitha Mahadevan, Harold Bedell, Scott Stevenson

26.537 **The onset of background dynamic noise degrades preview benefit in inefficient visual search** Takayuki Osugi, Ikuya Murakami

26.538 **Speed and accuracy of decoding cue meaning are not related to the extent of a cueing effect: A comparison among predictive arrow, color and number cues** Bettina Olk, A. Raisa Petca, Adalbert F. X. Wilhelm

26.539 **Attention improves precision while short-term memory load increases guessing** Christie Rose Marie Haskell, Britt Anderson

26.540 **Statistical Learning Modulates the Flexible Control of Spatial Attention** Anthony W. Sali, Brian A. Anderson, Steven Yantis

Attention: Temporal

Saturday, May 17, 2:45 - 6:45 pm
Poster Session, Pavilion

26.541 **Alpha-pulse sampling in attention revealed in saccade latency behavior** Kun Song, Lin Chen, Huan Luo

26.542 **The locus coeruleus-noradrenaline system facilitates attentional processing of action-triggered visual stimuli** Ken Kihara, Tatsuto Takeuchi, Sanae Yoshimoto, Hirohito Kondo, Jun Kawahara

26.543 **Unattended feature interference during a dynamic sequence task** Sarah C. Tyler, Charles Chubb, Emily D. Grossman

26.544 **Electrophysiological evidence of misselection during the attentional blink** Benoit Brisson, Marie-Ève Bourassa, François Vachon

26.545 **Reconstructing temporal organization of visual attention reduces attentional blink** Peijun Yuan, Ying Wang, Yi Jiang

26.546 **The Exact Timecourse of Attention: The Mutations Paradigm** Ricardo Max, Yehoshua Tsal

26.547 **Rhythmic motion regulates spontaneous perceptual alternation** Ying Wang, Xue Zhang, Qian Xu, Yi Jiang

26.548 **Onset target escapes the background perceptual grouping** Chia-huei Tseng, Hui Mei Chow

26.549 **Task-switching mediates direct interference of intertarget distractors in the attentional blink** Alexia Ptito, Benoit Brisson

26.550 **Processing of Spatially Stationary and Moving RSVP Streams in Parafoveal Vision** Rasmus Lunau, Claus Bundesen

26.551 **A temporal benefit of covert spatial orienting across visual hemifields.** Chris Angeloni, Jocelyn Sy, Frank Tong

26.552 **Can Attention's Temporal Resolution Be Doubled?** Andrew Clement, Nestor Matthews

26.553 **Perceptual delay in metacontrast** Jérôme Sackur, David Zarebski, Michel Dutat

Attention: Tracking

Saturday, May 17, 2:45 - 6:45 pm
Poster Session, Pavilion

26.554 **Tracking Illusory Contour Figures** Natasha Dienes, Lana Trick

26.555 **How long can you keep tracking?: a flying mission game** Chuang Lyu, Xuemin Zhang

26.556 **How do we update mental simulations at the right speed?** Alexis Makin, Marco Bertamini

26.557 **Virtual object tracking: The inference and tracking of invisible objects through effects on their surroundings** Joshua New, Elizabeth Han

26.558 **Dividing attention reduces both speed and temporal frequency limits on object tracking** Alex Holcombe, Wei-Ying Chen

26.559 **Action Video Game Experience Does Not Predict Multiple Object Tracking Performance** Cary Stothart, Walter Boot, Daniel Simons, Angeliki Beyko

26.560 **Exploration of the Halt-Move effect for occluded objects in Multiple Object Tracking: Tests of masking, cuing and item displacement** Deborah Aks, Navpreet Singh, Meriam Naqvi, Sanjana Mohan, Vedant Patel, Pylyshyn Zenon

26.561 **Studying the effect of eye-movements and interruptions in Multiple Object Tracking** Meriam Naqvi, Deborah Aks, Navpreet Singh, Sanjana Mohan, Chisom Emeana, Hannah Canuto, Zenon W. Pylyshyn

26.562 **My Attention is Over There: A Serial Component for Multiple Object Tracking** Justin M. Ericson, Rebecca R. Goldstein, Melissa R. Beck

26.563 **The effect of feedback on 3D multiple object tracking performance and its transferability to other attentional tasks** Chiara Perico, Domenico Tullio, Krista Perrotti, Jocelyn Faubert, Armando Bertone

26.564 **Replacing the spotlight with a Kalman filter: A prediction error model of multiple object tracking** Ashley M. Sherman, Tomás F. Yago Vicente, Gregory J. Zelinsky

26.565 **The capacity of mental rotation** Yangqing Lucie Xu, Steven Franconeri

Scene perception: Spatial and temporal factors

Saturday, May 17, 2:45 - 6:45 pm
Poster Session, Pavilion

26.566 **Prediction of perceived fog density and defogging of natural foggy images** Lark Kwon Choi, Jaehee You, Alan Bovik

26.567 **Does RMS contrast normalization impair coarse-to-fine processing of natural scenes?** Louise Kauffmann, Alan Chauvin, Nathalie Guyader, Stephen Ramanoël, Carole Peyrin

26.568 **Through the Looking-Glass: Are objects in mirrors really objects?** Preeti Sareen, Krista A. Ehinger, Jeremy M. Wolfe

26.569 **Towards a model for mid-level feature representation of scenes** Mariya Toneva, Elissa Aminoff, Abhinav Gupta, Michael Tarr

26.570 **Place recognition and heading retrieval are dissociable in mice (and possibly men)** Joshua B. Julian, Alexander Keinath, Isabel Muzzio, Russell A. Epstein

26.571 **Modeling Visual Clutter Perception using Proto-Object Segmentation** Chen-Ping Yu, Dimitris Samaras, Gregory Zelinsky

26.572 **Using spatial statistics to investigate allocation of attention within single trials** Hans Trukenbrod, Ralf Engbert

26.573 **Why the "Rule of Thirds" is Wrong** Stephen Palmer, Yurika Hara, William Griscom

26.574 **Analysis of Fused and Unfused Imagery using Systems Factorial Technology (SFT)** Elizabeth Fox, Joseph Houpt, Fairul Mohd-Zaid, Jennifer Bittner

26.575 **Intrinsic Reference System in Implicit Spatial Learning: Evidence from Contextual Cueing Paradigm** Shiyi Li, Zhongting Wang, Chao Wang, Limeng Shi, Haibo Yang, Xuejun Bai, Hong-Jin Sun

26.576 **Viewpoint Independence in Implicit Scene Learning Revealed in a Contextual Cueing Paradigm** Zhongting Wang, Shiyi Li, Chao Wang, Limeng Shi, Haibo Yang, Xuejun Bai, Hong-Jin Sun

26.577 **Inhibition of attention to irrelevant areas of a scene: Investigating mechanisms of attention during visual search** Effie Pereira, Yu Qing Liu, Monica Castelhan

- 26.578 **Using V1-Based Models for Change Detection in Natural Scenes** Pei Ying Chua, Kenneth Kwok
- 26.579 **Complimentary roles for eye and head movements in scene viewing** Grayden Solman, Tom Foulsham, Alan Kingstone
- 26.580 **Short term and baseline effect in the estimation of probabilistic visual event sequences** József Arató, József Fiser
- 26.581 **The Time-Course of Scene and Action Categorization in Dynamic Videos** Adam Larson, Hope Tebbe, Lester Loschky
- 26.582 **Visual features that repeat across cuts guide attention in movies** Christian Valuch, Peter König, Ulrich Ansorge
- 26.583 **Coloring Time! The Effect of Color in Pictures on Time Perception** Jason Hays, Brian Huybers, Alex Varakin

Sunday Morning Talks

Binocular Vision

Sunday, May 18, 8:15 - 9:45 am
Talk Session, Talk Room 1
Moderator: Cheryl Olman

31.11, 8:15 am **Do hemifield representations co-opt ocular dominance column structure in achiasma?** Cheryl A. Olman, Pinglei Bao, Stephen A. Engel, Andrea N. Grant, Chris Purington, Cheng Qiu, Michael-Paul Schallmo, Bosco S. Tjan

31.12, 8:30 am **Transient monocular deprivation affects binocular rivalry and GABA concentrations in adult human visual cortex.** Claudia Lunghi, Uzay Emir, Maria Concetta Morrone, David Charles Burr, Holly Bridge

31.13, 8:45 am **Continuous Flash Suppression Modulates Cortical Activity in Early Visual Cortex** Shlomit Yuval-Greenberg, David J. Heeger

31.14, 9:00 am **Not all probes are created equal: Suppressed probes presented during binocular rivalry draw attention to the suppressed image** Brian A. Metzger, Kyle E. Mathewson, Evelina Tapia, Kathy A. Low, Ed L. Maclin, Monica Fabiani, Gabriele Gratton, Diane M. Beck

31.15, 9:15 am **Sensory memory of multi-stable displays: memory mechanisms are used to resolve ambiguity, not to stabilize perception** Alexander Pastukhov, Anna Lissner, Jochen Braun

31.16, 9:30 am **Interocular competition at higher levels of motion processing** Vivian Holten, Sjoerd M. Stuit, Maarten J. van der Smagt, Stella F. Donker, Frans A.J. Verstraten

Spatial vision: Mechanisms, methods, models and time

Sunday, May 18, 10:45 am - 12:30 pm
Talk Session, Talk Room 1
Moderator: Richard Murray

32.11, 10:45 am **A classification-image-like method reveals strategies in 2afc tasks** Richard Murray, Lisa Pritchett

32.12, 11:00 am **A kindler, gentler adaptive psychophysical procedure** Daniel Coates, Susana Chung

32.13, 11:15 am **Symmetry: Less than meets the eye** Deborah Athorp, Jason Bell

32.14, 11:30 am **Non-orthogonal channels for relative numerosity and contrast detection** Michael Morgan, Donald MacLeod

32.15, 11:45 am **Encoding space in time: a model of human contrast sensitivity in the presence of fixational eye movements** Michele Rucci, Jonathan Victor, Xutao Kuang

32.16, 12:00 pm **The Radial Bias Is Not Necessary For Orientation Decoding** Michael Pratte, Jocelyn Sy, Frank Tong

32.17, 12:15 pm **Layer-specific fMRI signals in the human LGN – An investigation of magnocellular and parvocellular pathways in normal subjects and glaucoma patients** Peng Zhang, Een Wen, Xinghuai Sun, Sheng He

Visual memory

Sunday, May 18, 8:15 - 9:45 am
Talk Session, Talk Room 2
Moderator: Christian Olivers

31.21, 8:15 am **Human Visual Memory in the Past and Future: Predicting Individual Recall using Eye-Movements** Zoya Bylinskii, Phillip Isola, Antonio Torralba, Aude Oliva

31.22, 8:30 am **Environment sensitivity in hierarchical representations** Timothy Lew, Edward Vul

31.23, 8:45 am **Shared visual memory resources for individuation and ensemble representation** Brandon Liverence, Steven Franconeri

31.24, 9:00 am **In competition for the attentional template: Only a single item in visual working memory can guide attention** Christian Olivers, Dirk van Moorselaar, Jan Theeuwes

31.25, 9:15 am **On the dynamic nature of VWM: Separate limits for the storage and manipulation of information** Hrag Pailian, Melissa Libertus, Lisa Feigenson, Justin Halberda

31.26, 9:30 am **The more you try to remember, the faster you forget: load-dependent forgetting and mnemonic overreaching** Jordan W. Suchow, George A. Alvarez

Perceptual learning

Sunday, May 18, 10:45 am - 12:30 pm
Talk Session, Talk Room 2
Moderator: Mark Wexler

32.21, 10:45 am **Statistical regularities shape object perception** Sumeyye Cakal, Jiaying Zhao

32.22, 11:00 am **The neural changes associated particularly with perceptual learning trained with reward are not essential to perceptual learning in general** Dongho Kim, Yuka Sasaki, Takeo Watanabe

32.23, 11:15 am **Object Representations in Human Visual Cortex are Flexible: an Associative Learning study.** Mehdi Senoussi, Isabelle Berry, Rufin VanRullen, Leila Reddy

32.24, 11:30 am **Biases in multistable displays as dynamic state variables** Mark Wexler, Pascal Mamassian

32.25, 11:45 am **Four days of visual contrast adaptation: effects on perceived contrast grow monotonically while effects on orientation rise then fall.** Elizabeth Fast, Koen Haak, Min Bao, Stephen A. Engel

32.26, 12:00 pm **Adaptation to patch-wise complementary video reduces perceptual ocular dominance** Bo Dong, Yi Jiang, Stephen Engel, Min Bao

32.27, 12:15 pm **A unifying mechanism underlying adaptation and perceptual learning** Kyle McDermott, Pascal Mamassian

Sunday Morning Posters

Perception and action: Reaching and grasping

Sunday, May 18, 8:30 am - 12:30 pm

Poster Session, Jacaranda Hall

- 33.301 **Informed perception: Catching ability changes perceived size of ball** Nathan Tenhundfeld, Jessica Witt
- 33.302 **The “Verge-Weight” Illusion** Michael Barnett-Cowan, Gavin Buckingham, Jody Culham
- 33.303 **Online control of grasping for shapes defined by second-order contours** Jeffrey Saunders, Zhongting Chen
- 33.304 **Fast Processing of Shape Information for Online Control of Grasping** Zhongting Chen, Jeffrey Saunders
- 33.305 **Reach-to-grasp actions affect the perceptual scaling of disparity-defined depth.** Carlo Campagnoli, Fulvio Domini
- 33.306 **Distinct patterns of size-contrast illusion effects in reaching and grasping movements** Christine Gamble, Joo-Hyun Song
- 33.307 **Hand position influences perceptual grouping** Greg Huffman, Davood Gozli, Jay Pratt
- 33.308 **Enhanced Visual Processing When Reaching for Targets Presented Near the Hands** Karolina Beben, Liana Brown
- 33.309 **Influence of Visual Feedback on Gaze-Dependent and Location-Dependent Errors in Grasp Location and Orientation** Noura Alomawi, Joost C. Dessing, Xiaogang Yan, J. Douglas Crawford
- 33.310 **The role of egocentric and allocentric feedback in calibrating goal-oriented actions** Chiara Bozzacchi, Robert Volcic, Fulvio Domini
- 33.311 **The role of reference frames for reaching in a naturalistic environment** Katja Fiehler, Christian Wolf, Mathias Klinghammer, Gunnar Blohm
- 33.312 **Visually judging the fate of one’s own and others’ basketball shots** Rouwen Cañal-Bruland, Lars Balch, Loet Niesert
- 33.313 **Limb-target regulation processes: Further evidence for a sweet spot.** Valentin Crainic, John de Grosbois, Tifanny Lung, Arindam Bhattacharjee, Luc Tremblay
- 33.314 **Coupling of reaction and movement times in reaching** Cristina de la Malla, Joan López-Moliner
- 33.315 **Computational Models of Extra-Retinal Contributions to Predictive Saccades** Gabriel Diaz, Mary Hayhoe, Tommy Keane
- 33.316 **Invariant and variable relations emerge with degrees of difficulty within habitual and surprise touch-pointing motions** Vilemini Kalampratsidou, Elizabeth Torres
- 33.317 **Another look at binocular vision: Contribution to online control processes.** Damian Manzone, Arindam Bhattacharjee, John de Grosbois, Gerome Manson, Tristan Loria, Tiffany Lung, Luc Tremblay
- 33.318 **Does binocular vision drive the lower visual field advantage for grasping?** Stephanie Rossit
- 33.319 **Visually guided grasping in depth is systematically inaccurate** Claire Walker, Carlo Campagnoli, Fulvio Domini
- 33.320 **Dissociating Action and Perception Using a 3D Variant of the Sanders Illusion While Controlling for Visual and Haptic Feedback** Kate E. Merritt, Robert L. Whitwell, Gavin Buckingham, Philippe Chouinard, Melvyn A. Goodale

33.321 Judging Speed of Baseball Pitches in a Batting Cage

Michael K. McBeath, Richard N. Hinrichs, Jeremy R. Babendure

33.322 Biases in number representation as a by-product of optimising visuomotor responses: evidence from a number line reaching task

David Aguilar-Lleyda, Elisabet Tubau, Joan López-Moliner

33.323 “I Can Only Imagine”: Effect of Task-Specific Execution on Accuracy of Imagined Aiming Movements

Emma Yoxon, Luc Tremblay, Timothy Welsh

Multisensory processing: Visuo-auditory interactions

Sunday, May 18, 8:30 am - 12:30 pm

Poster Session, Jacaranda Hall

33.324 Auditory-induced bouncing is a visual (rather than a cognitive) phenomenon: Evidence from illusory crescents

Hauke S. Meyerhoff, Brian Scholl

33.325 Correlation between Vividness of Visual Imagery and Echolocation Ability in Sighted, Echo-Naïve People

Lore Thaler, Rosanna Wilson, Bethany Gee

33.326 Differential effect of visual and auditory spatial cues on visual numerosity judgment

Yasuhiro Takeshima, Jiro Gyoba

33.327 Audiovisual processing differences in autism spectrum disorder revealed by a model-based analysis of simultaneity and temporal order judgments

Paula Regener, Scott Love, Karin Petrini, Frank Pollick

33.328 Reduced audiovisual recalibration in the elderly

Yu Man Chan, Michael J Pianta, Allison M McKendrick

33.329 What you hear is what you see: Non-spatial visual information can hinder auditory detectability early in development

Hui Mei Chow, Vivian Ciaramitaro

33.330 Lets play it by ear: Auditory gating during goal-directed action?

Rachel Goodman, Gerome Manson, Damian Manzone, Tristan Loria, John de Grosbois, Valentin Crainic, Luc Tremblay

33.331 Multisensory classification images reveal the role of cross-correlation in audiovisual temporal processing.

Cesare Valerio Parise, Marc Ernst

33.332 Auditory and tactile signals combine to influence vision during binocular rivalry

David Alais, Claudia Lunghi, Concetta Morrone

33.333 Perceptual Biasing of a Continuous Auditory Quadri-stable Illusion

Constance Bainbridge, Aude Oliva

33.334 Angry faces reduce sensitivity for auditory-visual temporal asynchrony

L Jacob Zweig, David Brang, Satoru Suzuki, Marcia Grabowecy

33.335 Visual Texture, Music, and Emotion

Thomas Langlois, Joshua Peterson, Stephen Palmer

33.336 Electrophysiological Dynamics of Auditory-Visual Sensory Substitution

Christian Graulty, Orestis Papaioannou, Phoebe Bauer, Michael Pitts, Enriqueta Canseco-Gonzalez

33.337 Subjective crossmodal correspondence and audiovisual integration

Maarten van der Smagt, Irene Buijing, Nathan Van der Stoep

- 33.338 **Implicit detection of asynchronous audiovisual speech by eye movements** Tim J. Smith, Jonathan Batten, Rachael Bedford
- 33.339 **Influences of response delay on unconscious imitation of visual speech** James W. Dias, Theresa C. Cook, Josh J. Dorsi, Dominique C. Simmons, Lawrence D. Rosenblum
- 33.340 **Reading rotated clocks: the role of egocentric and environmental orientation** Nicolas Davidenko, Amanda Waterman, Yeram Cheong, Jake Smith
- 33.341 **Visual motion energy signal usage in gesture and speech integration: The role of semantic categorization and task demands** Bruce C Hansen, Spencer D Kelly, Pearce Decker, Rachel Weinstein, Stewart Lanphier
- 33.342 **The Influence of Emotion on Audiovisual Integration in the McGurk Effect** Theresa Cook, James Dias, Lawrence Rosenblum
- 33.343 **The texture of musical sounds: Cross-modal associations between visual textures and musical timbres and intervals** Joshua Peterson, Thomas Langlois, Stephen Palmer
- 33.344 **Clarifying the crossmodal Stroop effect in an auditory-visual colour naming task with words and non-words stimuli.** Ding-Cheng Peng, Steven L Prime
- 33.345 **Bidirectional cross-modal synesthetic priming** Chris Paffen, Maarten van der Smagt, Tanja Nijboer
- 33.346 **Synesthesia and Lateral Inhibition: A Case Study** Diana Arias, Mathieu Simard, Dave Saint-Amour
- 33.347 **When "A" is not red but pink or yellow: How crossmodal and synaesthetic correspondences involve different cognitive strategies for non-synaesthetic French children** Marie-Margéride Garnier, Jean-Michel Hupé, Michèle Guidetti
- 33.348 **Two plus blue equals green: Grapheme-color synesthesia allows cognitive access to numerical information via color** J. Daniel McCarthy, Lianne N. Barnes, Bryan A. Alvarez, Gideon P. Caplovitz

Color and light: Surfaces and materials

Sunday, May 18, 8:30 am - 12:30 pm

Poster Session, Banyan Breezeway

- 33.401 **Linking low-level and mid-level accounts of lightness perception** Alexandra Schmid, Barton Anderson
- 33.402 **Surface roughness increases ability to distinguish gloss from matte.** Shinho Cho, Daniel Kersten
- 33.403 **Perceiving gloss in surfaces and images** James Ferwerda, Adria Fores, Ingeborg Tastl, John Recker
- 33.404 **Lack of glossiness constancy with viewpoint changes** Sabrina Hansmann-Roth, Pascal Mamassian
- 33.405 **Correlation of gold appearance with surface metallicity and glossiness** Tomohisa Matsumoto, Kazuho Fukuda, Keiji Uchikawa
- 33.406 **The Perception of Glossiness in the Human Brain** Hua-Chun Sun, Hiroshi Ban, Andrew Welchman
- 33.407 **Visual perception of fluid viscosity over time** Jan Jaap R. van Assen, Vivian C. Paulun, Roland W. Fleming
- 33.408 **Qualities of optically mixed real materials and photographs – towards a material probe** Sylvia Pont, Susan te Pas, Maarten Wijnntjes
- 33.409 **Discrimination of highlights from reflectance changes using isophote maps of surface images** Masataka Sawayama, Shin'ya Nishida
- 33.410 **Material Perception in Blind and Sighted Participants** Elisabeth Baumgartner, Christiane Wiebel, Karl Gegenfurtner

- 33.411 **Colorimetric Analysis of Makeup Styles and Their Relation with Visual Quality Perception of the Skin** Carlos ArceLopera, Takanori Igarashi, Katsunori Okajima
- 33.412 **Color Flows and Color Mixing** Daniel Holtmann-Rice, Steven Zucker
- 33.413 **The perception of surface gray shades and the computational goals of human vision** Tony Vladusich, Mark McDonnell
- 33.414 **Color categorization of natural objects** Zarko Milojevic, Robert Ennis, Karl Gegenfurtner
- 33.415 **Perception of saturation in natural scenes** Florian Schiller, Karl Gegenfurtner

Motion Perception: Models

Sunday, May 18, 8:30 am - 12:30 pm

Poster Session, Banyan Breezeway

- 33.416 **Motions of Parts and Wholes: An Exogenous Reference-Frame Model of Non-Retinitopic Processing** Aaron Clarke, Haluk Ögmen, Michael Herzog
- 33.417 **Influence of Correspondence Noise on Dmax for Low Coherence Random-dot Kinematogram Stimuli** Srimant Tripathy, Syed Shafullah, Michael Cox
- 33.418 **Adaptive shifts of spatiotemporal contrast sensitivity function: context adaptation vs. point adaptation** Ambarish Pawar, Thomas Albright, Sergei Gepshtein
- 33.419 **Dissecting the oblique effect: Replicating the expansion of motion direction space around the cardinal axes with a computer model built from V1 and MT neuron inputs** John Perrone, Dorion Liston, Leland Stone
- 33.420 **A Counterchange-based Dynamic Neural Network for Solving the Correspondence Problem** Joseph Norman
- 33.421 **Optimal tracking model accounts for perceptual conflict between motion and position in the curveball illusion** Oh-sang Kwon, Duje Tadin, David Knill
- 33.422 **Motion-based prediction model for flash lag effect** Mina A. Khoei, Laurent U Perrinet, Guillaume S Masson
- 33.423 **Motion reversal reveals mechanisms of perceptual suppression** Davis M. Glasser, Duje Tadin, Christopher C. Pack
- 33.424 **Vertical opponency modulates sensitivity to horizontal motion** Andrew E. Silva, Zili Liu
- 33.425 **Modeling motion perception and perceptual learning in random dot kinematograms** Émilien Tlapale, Barbara Anne Doshier, Zhong-Lin Lu
- 33.426 **Computational modeling of paradoxical occlusion of a "near" surface** Harald Ruda, Guillaume Riesen, Ennio Mingolla

Motion Perception: Local motion and optic flow

Sunday, May 18, 8:30 am - 12:30 pm

Poster Session, Banyan Breezeway

- 33.427 **Counterchange, But Not Motion-Energy, Determined Motion Perception Integrates Dichoptically Presented Motion Information** Matthew Seifert, Howard Hock
- 33.428 **Speed tuning of human Ocular Following Responses (OFRs) depends on orientation bandwidth in noise stimuli.** Boris Sheliga, Christian Quaia, Edmond FitzGibbon, Bruce Cumming

- 33.429 **No motion-induced sensitivity modulation for chromatic gratings.** Rumi Hisakata, Shin'ya Nishida, Alan Johnston
- 33.430 **A new swaying bar illusion** Sae Kaneko, Rumi Hisakata
- 33.431 **The effects of local object motion and binocular disparity on collision detection** Carissa M. Lemon, George J. Andersen
- 33.432 **Primacy of speed in the processing of motion during smooth pursuit** Tom Freeman
- 33.433 **Temporal and Speed Tuning in Brain Responses to Local and Global Motion Patterns** Amanda Thomas, Rick Gilmore
- 33.434 **A direct influence of stimulus orientation on perceived motion trajectory** Daisuke Harada, Isamu Motoyoshi, Miyuki G. Kamachi
- 33.435 **The accuracy of object motion perception during locomotion** Brett Fajen, Melissa Parade
- 33.436 **Human self-motion sensitivity to visual yaw rotations** Alessandro Nesti, Karl Beykirch, Paolo Pretto, Heinrich Bülthoff
- 33.437 **Adaptation to a non-uniform motion pattern reveals a mechanism to encode local flow changes.** Kazushi Maruya, Shin'ya Nishida
- 33.438 **Angular, speed and density tuning of flow parsing** Diederick C Niehorster, Li Li
- 33.439 **When does a moving object influence the perception of heading?** Oliver W. Layton, Brett R. Fajen
- 33.440 **Optimal integration of retinal and extra-retinal signals for heading perception** Shenbing Kuang, Jinfu Shi, Yang Wang, Tao Zhang

Eye movements: Pursuit

Sunday, May 18, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

- 33.441 **Contrast-dependent motion processing : insight from ocular tracking dynamics** Anna Montagnini, Guillaume Masson, Laurent Madelain
- 33.442 **Beyond simply faster and slower: exploring paradoxes in speed perception** Andrew Isaac Meso, Claudio Simoncini, Laurent Perrinet, Guillaume S. Masson
- 33.443 **Unsupervised dynamic morphing of a spatiotemporal visual event during its oculomotor tracking** Clara Bourrelly, Julie Quinet, Laurent Goffart
- 33.444 **Smooth pursuit of flicker-defined motion** Jeffrey B. Mulligan, Scott B. Stevenson
- 33.445 **Small foveal stimuli render smooth pursuit less smooth** Stephen Heinen, Elena Potapchuk, Scott Watamaniuk
- 33.446 **Foveating a moving target, here-and-now** Laurent Goffart, Julie Quinet, Clara Bourrelly
- 33.447 **Anticipatory smooth eye movements elicited by symbolic cues** Elio M. Santos
- 33.448 **Attention allocation during pursuit is broad and symmetric, but can be limited by set size and crowding** Scott Watamaniuk, Stephen Heinen
- 33.449 **Women with premenstrual syndrome (PMS) symptoms, compared to non-symptomatic controls both on or off monophasic oral contraceptives, show asymmetric horizontal smooth pursuit amplitudes during their late luteal menstrual phase** Michael Wesner, Emily Currie, Meghan Richards, Kirsten Oinonen

Attention: Reward and arousal

Sunday, May 18, 8:30 am - 12:30 pm
Poster Session, Pavilion

- 33.501 **The color of money: Value-driven selectivity enhancements** Árni Gunnar Ásgeirsson, Árni Kristjánsson, Kristín Vala Einarssdóttir, Claus Bundesen
- 33.502 **Object Long-Term Value and Novelty Create Incentive Salience Maps that Bias Eye Movements** Ali Ghazizadeh, Okihide Hikosaka
- 33.503 **Attention capture by task-irrelevant learned value interacts with task-relevant top-down factors** Mary MacLean, Barry Giesbrecht
- 33.504 **Reward directly modulates perception in binocular rivalry** Svenja Marx, Wolfgang Einhauser
- 33.505 **The Value of Paying Attention** Carsten S. Nielsen, Anders Petersen, Claus Bundesen
- 33.506 **Irrelevant Spatial Value Learning Modulates Visual Search** Jane Raymond, Risa Sawaki
- 33.507 **Value-driven attentional capture resists extinction in adolescence** Zachary Roper, Shaun Vecera, Jatin Vaidya
- 33.508 **Brain signatures of reward-dependent bias in visual attention** Iris Wiegand, Carsten Nielsen, Anders Petersen, Mads Dyrholm, Claus Bundesen
- 33.509 **Unreliable associations between visual features and values interfere with reward-based decision-making** Timothy Vickery, Kyle Friedman, Rachel Bristol
- 33.510 **Attentional Bias for Non-drug Reward is Magnified in Addiction** Brian A. Anderson, Monica L. Faulkner, Jessica J. Rilee, Steven Yantis, Cherie L. Marvel
- 33.511 **Arousal Affects Attentional Guidance based on Selection History** Hannah Wyland, Jeffrey Mounts, Matthew Hilimire
- 33.512 **Attentional capture from emotional associations in long-term memory** Jonas Everaert, Judith E. Fan, Ernst H.W. Koster, Nicholas B. Turk-Browne
- 33.513 **Pavlovian Conditioning and the Koniocellular Pathway Using Steady-State-Evoked Potentials** Nathan Petro, Vladimir Miskovic, Andreas Keil
- 33.514 **Saccade trajectories are immediately curved in accordance with the degree of threat from task-irrelevant stimuli** Yoshiyuki Ueda, Masato Nuno, Kenshiro Ichimura, Yuki Shirasuna, Masahiro Fujino
- 33.515 **Not All Threats are Created Equal: Selection History Biases are Differentially Affected by Fear and Disgust** Matthew Hilimire, Jeffrey Mounts, Bina Kakusa

Attention: Neural mechanisms and modeling

Sunday, May 18, 8:30 am - 12:30 pm
Poster Session, Pavilion

- 33.516 **Attention to color in the primate Superior Colliculus** James Herman, Richard Krauzlis
- 33.517 **Neuronal correlates of change detection in Superior Colliculus during covert spatial attention** Anil Bollimunta, Richard Krauzlis
- 33.518 **Neuronal correlates of change detection in Basal Ganglia during covert spatial attention** Fabrice Arcizet, Richard Krauzlis

33.519 **Comparison of superior colliculus and primary visual cortex in the coding of visual saliency** Brian White, David Berg, Takuro Ikeda, Ron Levy, Laurent Itti, Douglas Munoz

33.521 **Macaque monkeys exhibit event-related potentials indexing distractor suppression during visual search** Joshua Cosman, Jeffrey Schall, Geoffrey Woodman

33.522 **Decoding the allocation of visual attention from prefrontal neural assemblies in behaving primates** Sebastien Tremblay, Florian Pieper, Adam Sachs, Julio Martinez-Trujillo

33.523 **Task-relevant or Task-irrelevant: Is Allocation of Attention Based on Fast and Precise Location Information?** Søren Kyllingsbæk, Claus Bundesen, Barry Giesbrecht

33.524 **Deriving the acuity and the capacity of visual spatial attention** George Sperling, Arvin Hsu

33.525 **What Does it Mean to Better Attend?** John Tsotsos

33.526 **Visual Attention in Dynamic Environments and its Application to Playing On-line Games** Yulia Kotseruba, John Tsotsos

33.528 **Vision as a three-stage process: encoding, selection, and decoding** Li Zhaoping

Attention: Divided

Sunday, May 18, 8:30 am - 12:30 pm
Poster Session, Pavilion

33.529 **Dual-task backward compatibility effects are episodically mediated.** Maria Giammarco, Sandra Thomson, Scott Watter

33.530 **Too Much, Too Slow, or Too Flexible? Exploring The Influence of Task Difficulty on the Attentional Blink.** James Elliott, Tom Bullock, Barry Giesbrecht

33.531 **Failures to filter: A marker of repetition suppression to task-irrelevant backgrounds predicts attentional lapses** Francesca Fortenbaugh, Monica Rosenberg, Joseph DeGutis, Sarah Noonan, Michael Esterman

33.533 **Perceptual and response related visual attention in children with ADHD** Ida Dyhr Caspersen, Signe Vangkilde, Lone Kelkjaer, Kerstin von Plessen, Thomas Habekost

33.534 **Inter-individual differences in preferred directions of perceptual and motor decisions** Alexander C. Schütz

33.535 **Blur Detection Is Unaffected By Cognitive Load, But Eye Movements and Scene Recognition Memory Are.** Ryan V. Ringer, Aaron Johnson, Mark Neider, Arthur Kramer, Lester C. Loschky

33.536 **Spatial attention across perception and action** Moran Israel, Asher Cohen

33.537 **Amelioration of the distracting effect of cellphone driving** Whitney N. Street, John G. Gaspar, Matthew B. Windsor, Ronald Carbonari, Henry Kaczmarek, Arthur F. Kramer, Kyle E. Mathewson

33.538 **Electrophysiological evidence that acute bouts of exercise modulate multiple stages of information processing** Tom Bullock, Hubert Cecotti, Barry Giesbrecht

33.539 **Prism adaptation ameliorates pseudoneglect by enhancing target processing in right hemisphere** Elizabeth Nguyen, Patrick T. Goodbourn, Alex O. Holcombe

33.540 **Is the attentional boost effect really a boost?** Khená Swallow, Yuhong Jiang

33.541 **Cognitive load modulates early visual perceptual processing** Virginia Liu, Jason Forte, Luca Cocchi, David Sewell, Olivia Carter

33.542 **Monitoring for visual prospective memory events reduces visual processing speed in ongoing tasks** Christian H. Poth, Claus Bundesen, Anders Petersen, Werner X. Schneider

Attention: Individual differences

Sunday, May 18, 8:30 am - 12:30 pm
Poster Session, Pavilion

33.543 **Cortical magnification factor and population receptive field size in human V1 predict the bottom-up saliency map** Xilin Zhang, Fang Fang

33.544 **Difference between eyes-closed and eyes-open resting state alpha power is an indicator of susceptibility to the rubber hand illusion** Su-Ling Yeh, Timothy Lane, Jifan Zhou, Ting-yi Lin, Chia-Hsin Kuo, Cheng-Yun Teng

33.545 **Intact functioning of exogenous spatial attention in amblyopic adults** Marisa Carrasco, Mariel Roberts, Rachel Cymerman, R. Theodore Smith, Lynne Kiorpes

33.546 **Dissociable Changes in Sustained Visual Attention Across the Lifespan** Bay McCulloch, Michael Esterman, Laura Germine, Jeremy Wilmer, Joseph DeGutis

33.547 **Is High Contrast Viewing Condition Always Better? Not for The Useful Field of View Tests** John Paul Plummer, Rui Ni

33.548 **Establishing the Attention-Deficit Trait** Sophie Forster, Nilli Lavie

33.549 **Superior Visual Search Efficiency in High Trait Anxiety** Nick Berggren, Thomas Blonievsky, Nazanin Derakshan

33.550 **Does attention to low spatial frequencies enhance face recognition? An individual differences approach** Blaire Dube, Karen Arnell, Catherine Mondloch

33.551 **The attentional blink in right parietal patients: Analysis of temporal selection parameters** Lorella Battelli, Sara Agosta, Paolo Martini, Alex O. Holcombe, Patrick T. Goodbourn

33.552 **Alerting cues affect the subitizing process: Evidence from developmental and acquired dyscalculia** Yarden Glikzman, Avishai Henik

33.553 **Flanking Magnitudes: Dissociation between Numerosity and Numerical Value in a Selective Attention Task** Sharon Naparstek, Ziad Safadi, Limor Lichtenstein-Vidne, Avishai Henik

33.554 **Individual differences in visual working memory capacity and search efficiency may predict distinct strategic processes for dot arrays by numerosity comparison sensitivity** Giyeon Kim, Soohyun Cho, Joo-Seok Hyun

33.555 **Individual differences in affect and personality predict attentional and conceptual breadth** Karen Arnell, Gillian Dale, Mary MacLean

33.556 **Individual Differences in Media Multitasking and Inattentive Blindness** D. Alexander Varakin, Brian Huybers

33.557 **Top down effects in the real-world: An empirical assessment of smoker status on visual attention to brand and warnings when viewing different tobacco package designs** Tim Holmes, Alice Lowenhoff, Jon Ward, Hayley Thair, Elina Nikolaidou

Face perception: Identity

Sunday, May 18, 8:30 am - 12:30 pm

Poster Session, Pavilion

- 33.558 **Different Spatial Frequency Tuning for Judgments of Eye Gaze and Facial Identity** Mark Vida, Daphne Maurer
- 33.559 **Enhancing facial identity perception using high frequency transcranial random noise stimulation** Michael Banissy, Bradley Duchaine, Tirta Susilo, Constantin Rezesescu, Aleksandra Romanska
- 33.560 **Adaptation to Dynamic Faces Produces Face Identity Aftereffects** Linda Jeffery, Samantha Petrovski, Gillian Rhodes
- 33.561 **Determinants of ensemble representations for face identity** Markus Neumann, Ryan Ng, Gillian Rhodes, Romina Palermo
- 33.562 **Modifying a face to make it more memorable or forgettable** Aditya Khosla, Wilma Bainbridge, Antonio Torralba, Aude Oliva
- 33.563 **The time course of horizontal tuning during face identification** Matthew V. Pachai, Allison B. Sekuler, Patrick J. Bennett
- 33.564 **Repetition adaptation for individual human faces in 9-month-old infants? - An ERP study** Stefanie Peykarjou, Sabina Pauen, Stefanie Hoehl
- 33.565 **Supra-additive contribution of shape and texture to individual face discrimination as revealed by electrophysiological periodic visual responses** Milena Dzhelyova, Bruno Rossion
- 33.566 **Contributing Factors of Person Recognition in Natural Environments** Carina A. Hahn, P. Jonathon Phillips, Alice J. O'Toole
- 33.567 **Visual masking with faces: Interruption of a trailing mask at critical SOA does not reduce masking.** Marwan Daar, Hugh Wilson
- 33.568 **Early Learning in Infancy Influences Children's Face Processing Several Years Later** Hillary Hadley, Charisse B. Pickron, Lisa S. Scott

Face perception: Whole and parts

Sunday, May 18, 8:30 am - 12:30 pm

Poster Session, Pavilion

- 33.569 **Reverse-engineering the Face-Space: Discovering the Crucial Features for Face Identification** Naphtali Abudarham, Galit Yovel
- 33.570 **Perceptual interactions between dynamic facial features** Richard Cook, Clarisse Aichelburg, Punit Shah, Alan Johnston
- 33.571 **Facial movement optimizes part-based face processing by influencing eye movements** Naiqi Xiao, Paul Quinn, Qiandong Wang, Genyue Fu, Kang Lee
- 33.572 **Dynamic facial expressions are not necessarily processed holistically** Martin A. Giese, Eva R.M. Joosten
- 33.573 **The inversion effect as a function of orientation information in emotional face and body recognition** Carol Huynh, Christopher Tonsager, Benjamin Balas
- 33.574 **Does acquisition of holistic processing for novel objects depend on experience with diagnostic parts?** Chua Kao-Wei, Jennifer Richler, Isabel Gauthier
- 33.575 **The eye-size illusion: Psychophysical characteristics, generality, relation to holistic processing, and a role for visual experience** Kang Lee, Wen Xiao, Genyue Fu, Paul Quinn, Yu-hao Sun, Naiqi Xiao, Qiandong Wang, Guowei Chan, Olivier Pascalis, Fabrice Damon

- 33.576 **Hemispheric specialization for holistic processing of faces in normal and prosopagnosic observers?** Tina Liu, Matt Oxner, William Hayward, Marlene Behrmann
- 33.577 **Holistic processing of faces in the composite task depends on size** David Ross, Isabel Gauthier
- 33.578 **Differences in Face Recognition Ability Predicts Patterns of Holistic Face Processing in Children** Sherryse Corrow, Tobias Donlon, Jordan Mathison, Vanessa Adamson, Albert Yonas
- 33.579 **Age-related effects on selective processing of horizontal structure in whole-face context** Allison B. Sekuler, Matthew V. Pachai, Sarah E. Creighton, Patrick J. Bennett
- 33.580 **Why the Long Face? The critical role of vertical configural relations in face 'barcodes' for recognition** Morgan Spence, Katherine Storrs, Derek Arnold
- 33.581 **Mind the gap: behavioral measures and phenomenology of the composite face illusion** Talia Retter, Bruno Rossion
- 33.582 **Attentional scope modulates unconscious processing: evidence from breaking continuous flash suppression** Sol Z. Sun, Susanne Ferber
- 33.583 **Moving biological stimuli (not just faces) amplify inversion effect sizes** Daniel W. Piepers, Catherine J. Stevens, Darren C. Burke, Rachel A. Robbins

Sunday Afternoon Talks

Eye movements: Perisaccadic perception

Sunday, May 18, 2:30 - 4:15 pm

Talk Session, Talk Room 1

Moderator: Eli Brenner

34.11, 2:30 pm **Spatiotopic representations emerge from remapped activity in early visual areas** Eckart Zimmermann, Ralph Weidner, Gereon Fink

34.12, 2:45 pm **Saccadic remapping of object-selective information** Benjamin Wolfe, David Whitney

34.13, 3:00 pm **Pre-saccadic motion integration between current and remapped locations** Martin Szinte, Donatas Jonikaitis, Martin Rolfs, Patrick Cavanagh, Heiner Deubel

34.14, 3:15 pm **Perisaccadic Response Modulations in Area V1 of the Macaque Monkey are stimulus-dependent** Steffen Klingenhoefer, Till S. Hartmann, Richard T. Born, Frank Bremmer

34.15, 3:30 pm **Masks cause compression of space for perception and saccade endpoints** Sabine Born, Eckart Zimmermann, Patrick Cavanagh

34.16, 3:45 pm **Moving your head reduces perisaccadic compression** Maria Matziridi, Eli Brenner, Jeroen B. J. Smeets

34.17, 4:00 pm **Saccades reset temporal integration windows** Andreas Wutz, Evelyn Muschter, Martijn van Koningsbruggen, David Melcher

Perceptual organization: Neural mechanisms and models

Sunday, May 18, 2:30 - 4:15 pm

Talk Session, Talk Room 2

Moderator: Thomas Carlson

34.21, 2:30 pm **What is the nature of the decodable neuromagnetic signal? MEG, Models, and Perception.** Thomas Carlson, Seyed Khaligh-Razavi, Nikolaus Kriegeskorte

34.22, 2:45 pm **Sensitivity of early visual cortical neurons to edge visual concepts** Tai Sing Lee, Corentin Massot, George Papandreou, Alan Yuille

34.23, 3:00 pm **Spontaneous visual cortex activity predicts eccentricity and is related to receptive field size** Noah C Benson, Omar H Butt, Geoffrey K Aguirre

34.24, 3:15 pm **Early Visual Cortex Assigns Border Ownership in Natural Scenes According to Image Context** Jonathan R Williford, Rüdiger von der Heydt

34.25, 3:30 pm **Brightness Illusions in a Neurophysiological Perspective** Rüdiger von der Heydt

34.26, 3:45 pm **Unexpected spatial sensitivity of neuronal response to illusory figures in area V4** Michele Cox, Michael Schmid, Andrew Peters, Richard Saunders, David Leopold, Alexander Maier

34.27, 4:00 pm **Bayesian Hierarchical Grouping: perceptual grouping as mixture estimation** Vicky Froyen, Jacob Feldman, Manish Singh

Color and light: Receptors and mechanisms

Sunday, May 18, 5:15 - 7:15 pm

Talk Session, Talk Room 1

Moderator: Andrew Stockman

35.11, 5:15 pm **Red-green flicker is encoded by a peak detector and limited by slew rate** Andrew Stockman, Caterina Ripamonti

35.12, 5:30 pm **Temporal contrast sensitivity function based on cones and melanopsin photoreceptors** Sei-ichi Tsujimura, Naoshi Hamazono, Katsunori Okajima

35.13, 5:45 pm **Melanopsin-driven responses in the human brain** Manuel Spitschan, Long Luu, Ritobrato Datta, David H Brainard, Geoffrey K Aguirre

35.14, 6:00 pm **Visual Cortical Activity Evoked by Unconscious Chromatic Flicker** Xiuling Zhang, Yi Jiang

35.15, 6:15 pm **Task-dependent neural population dynamics in sensory cortex** Satohiro Tajima, Kowa Koida, Chihiro I. Tajima, Kazuyuki Aihara, Hideyuki Suzuki, Hidehiko Komatsu

35.16, 6:30 pm **Neuronal population decoding can account for perceptual lightness illusions** David H. Brainard, Douglas A. Ruff, Marlene R. Cohen

35.17, 6:45 pm **Colour vision in 3D scenes: how much brain is needed to solve the Mach-card problem?** Annette Werner

35.18, 7:00 pm **Illumination Discrimination Reveals "Blue" Bias of Colour Constancy in Real and Simulated Scenes.** Bradley Pearce, Ana Radonjić, Hilary Dubin, Nicolas P. Cottaris, Michal Mackiewicz, Graham Finlayson, David H. Brainard, Anya Hurlbert

Face perception: Neural mechanisms

Sunday, May 18, 5:15 - 7:15 pm

Talk Session, Talk Room 2

Moderator: Jessica Taubert

35.21, 5:15 pm **Optogenetic and pharmacological suppression of face-selective neurons reveal their causal role in face discrimination behavior.** Arash Afraz, Edward S. Boyden, James J DiCarlo

35.22, 5:30 pm **Are the patches important? The effect of inversion on the responses of face-selective cells found throughout the monkey superior temporal sulcus.** Jessica Taubert, Goedele Van Belle, Wim Vanduffel, Rufin Vogels, Bruno Rossion

35.23, 5:45 pm **Functionally-defined white matter selectively predicts face- and place-processing performance** Jesse Gomez, Franco Pestilli, Golijeh Golarai, Nathan Witthoft, Alina Liberman, Jennifer Yoon, Kalanit Grill-Spector

35.24, 6:00 pm **Structural and functional connectivity fingerprints for face, body, scene, and object perception** Zeynep Saygin, Nancy Kanwisher

35.25, 6:15 pm **Facial identity – an investigation of neural encoding and image reconstruction** Adrian Nestor, David Plaut, Marlene Behrmann

35.26, 6:30 pm **Removing the right inferior occipital gyrus does not disrupt face-selective responses in human ventral temporal cortex: Evidence against a strict hierarchical model of face perception** Kevin Weiner, Louis Maillard, Jacques Jonas, Gabriela Hossu, Hélène Brissart, Corentin Jacques, David Loftus, Kalanit Grill-Spector, Bruno Rossion

35.27, 6:45 pm **Human facial preferences are changed at the mercy of decoded fMRI neurofeedback** Kazuhisa Shibata, Yuka Sasaki, Mitsuo Kawato, Takeo Watanabe

35.28, 7:00 pm **fMRI decoding reveals impaired face configuration representation in the right fusiform face area of individuals with developmental prosopagnosia** Jiedong Zhang, Jia Liu, Yaoda Xu

Sunday Afternoon Posters

Attention: Inattentive blindness

Sunday, May 18, 2:45 - 6:45 pm
Poster Session, Jacaranda Hall

36.301 **Perceptual Cycles in Complex Scene Perception: Effects of Attentional Set on Detecting Events** Thomas Sanocki

36.302 **Appropriately Colored Scenes Reduce Inattentive Blindness** Kelly Webster, Jason Clarke, Arien Mack, Tony Ro

36.303 **Insensitivity to changes in spatiotemporal continuity when watching video** Joseph Schmidt, Jennifer Olejarczyk, Steven G. Luke, William J. Brixius, John M. Henderson

36.304 **Perceptual bottleneck of numerical proportion discrimination** Aire Raidvee, Jüri Allik

36.305 **Get ready and don't move your eyes: Investigating configuration and identity change detection in right and left visual fields.** Bonnie Angelone, Ph.D., Jessica Marcoux, Kelly Boland

36.306 **Neural correlates of trans-saccadic change detection and change blindness in response to global contrast changes** William J. Brixius, Joseph Schmidt, Steven G. Luke, Chris Rorden, John M. Henderson

36.307 **Eccentricity Effects on Change Detection** Pooja Patel, Joanna Lewis, Mark Neider

36.308 **If you can see it, you spot it sooner: Peripheral change detection is correlated with performance on 'Spot-The-Difference' puzzles** Lavanya Sharan, Ruth Rosenholtz

36.309 **A Convergent Gradient Field Model of Visual Attention** Brad Wyble, Mingxuan Tan

36.310 **Object substitution masking of symbolic stimuli and the allocation of spatial attention.** Eric Taylor, Davood Gozli, Jay Pratt

Attention: Neural mechanisms

Sunday, May 18, 2:45 - 6:45 pm
Poster Session, Jacaranda Hall

36.311 **The role of cortical and subcortical suppression in spatial attention.** André D Gouws, Ivan Alvarez, David Watson, Maiko Uesaki, Jess Rodgers, Antony B Morland

36.312 **Pre-Saccadic Modulation of the Visual Evoked Potential** Leslie Guadron, Annabelle Blangero, Simon P. Kelly

36.313 **Spatial attention reduces correlated noise in the fMRI response** Wesley Chaney, Jason Fischer, Gerrit Maus, David Whitney

36.314 **Remediation of abnormal visual motion processing significantly improves attention, reading fluency, and working memory in dyslexics** Teri Lawton, Jordan Conway, Steven Edland

36.315 **Nasal-temporal Asymmetries of the N2pc Component** Christoph Huber-Huber, Anna Grubert, Ulrich Ansorge, Martin Eimer

36.316 **Examining early spatial selection through a novel brightness illusion: Voluntary attention shapes the early selection of information.** Snigdha Banerjee, Hans-Peter Frey, Kristen Morie, Sophie Molholm, John Foxe

36.317 **Spatial priority- and content-based attentional filtering disassociated along a posterior to anterior axis in visual cortex** Johan D Carlin, Justin L Gardner

36.318 **Attention-induced lateralization of EEG alpha-oscillations subserves a psychophysical contrast-gain effect.** Niko Busch

36.319 **Attentional allocation locally warps representational space** Samuel A. Nastase, Andrew C. Connolly, Nikolaas N. Oosterhof, Yaroslav O. Halchenko, Jason Gors, M. Ida Gobbini, James V. Haxby

36.320 **Sensory and response interference is resolved locally** Jack Grinband, Tobias Teichert, Vincent Ferrera, Joy Hirsch

36.321 **Optimizing decision-making by delaying decision onset** Tobias Teichert, Vincent Ferrera, Jack Grinband

36.322 **Load-Induced Visual Enhancement and Suppression Modulates with Attentional Field Size** Matthew Gannon, Dorothy Currey, Nathan Parks

36.323 **Impaired saliency suppression in old age: left IPS' indifference lets extrastriate cortex run wild** Carmel Mevorach, Lilach Shalev

36.324 **Top-down attention modulates representational stability in the medial temporal lobe** Mariam Aly, Nicholas B. Turk-Browne

36.325 **Phase-amplitude cross-frequency coupling sensitivity to phase shifts and sporadic potentials: possible spurious coupling in ECoG and scalp EEG data** Boaz Sadeh, Andrew Ward, Edden Gerber, Leon Deouell, Robert T. Knight

36.326 **Cue validity differentially modulates subunits of the attentional control network** Miranda Scolari, Sabine Kastner

36.327 **Predicting moment-to-moment attentional state** Monica D. Rosenberg, Emily S. Finn, R. Todd Constable, Marvin M. Chun

36.328 **Keep your mind on the road: Predicting mind-wandering while driving using classification of pre-probe oscillatory brain activity and driving performance** Jibo He, Cher Wee Ang, Adam J. Miller, Vinay Maddali, John G. Gaspar, Ronald S. Carbonari, Hank J. Kaczmarski, Arthur F. Kramer, Kyle E. Mathewson

36.329 **Focal Attention Improves Perceptual Decision-Making by Enhancing Multiplicative Response Gain of Cortical Activity in Human** Sirawaj Itthipuripat, Edward Ester, Sean Deering, John Serences

36.330 **Electrical stimulation improves visual attention by speeding the shift of control by long-term memory** Robert Reinhart, Geoffrey Woodman

36.331 **Systematic variations in behavioral and electroencephalographic measures of the control of visual attention as a function of body iron status** Stephanie Rhoten, Michael Wenger, Elaine Cooper, Laura Murray-Kolb, Jean-Bosco Gahutu, Mercy Lung'aho, Jere Haas

Attention: Memory, awareness and eye movements

Sunday, May 18, 2:45 - 6:45 pm
Poster Session, Jacaranda Hall

36.332 **The Role of Alerting in Modulating Perceptual Saliency** Noam Weinbach, Avishai Henik

36.333 **A size singleton matching the target-distractor size relation cannot capture attention when it appears outside of attentional window** Feng Du, Yue Yin, Yue Qi, Kan Zhang

36.334 **Oculometric assessment of visual motion processing** Dorion Liston, Leland Stone

- 36.335 **Differential effects of covert and overt orienting on microsaccade rate** Bonnie Lawrence, Marisa Carrasco
- 36.336 **An Attention-centered neural marker for shifts in eye position** Brittany J. Dungan, Edward K. Vogel
- 36.337 **Reduced pupillary response in voluntary saccadic task in Parkinson's disease** Anshul Srivastava, Ratna Sharma, Vinay Goyal, Sanjay Kumar Sood
- 36.338 **The role of conscious perception in contingent attentional capture and working memory updating** Dominique Lamy, Limor Alon, Nir Shalev, Tomer Carmel
- 36.339 **Working Memory Guidance of Attention: Examining the Accessory State Proposal** Nancy Carlisle, Steve Luck
- 36.340 **Contingent attentional capture by stimuli that match long-term memory representations** Naseem Al-Aidroos, Maria Giammarco, Adriana Paoletti, Emma Guild
- 36.341 **The effect of camera presence on arousal, attentional control and inhibition** William Kendall, Kelsey Chan, Alan Kingstone

Spatial vision: Natural image statistics

Sunday, May 18, 2:45 - 6:45 pm

Poster Session, Jacaranda Hall

- 36.342 **Measuring the Laws of Natural Vision by Constrained Natural Scene Sampling** Stephen Sebastian, Jared Abrams, Wilson S. Geisler
- 36.343 **Online Crowdsourcing of Subjective Quality Assessment of Images** Deepti Ghadiyaram, Alan Bovik
- 36.344 **Measuring perceptual differences between compressed and uncompressed video sequences using the swept-parameter Visual Evoked Potential** Anthony Norcia, Justin Ales, Emily Cooper, Thomas Wiegand
- 36.345 **The perceived blur in natural images is predominantly determined by Off signals** Hiromi Sato, Isamu Motoyoshi, Takao Sato
- 36.346 **Bimodal Distributions of Local Phase Variables in Natural Images** HaDi MaBouDi, Hideaki Shimazaki, Hamid Soltanian-Zadeh, Shun-ichi Amari
- 36.347 **Bivariate Statistics and Correlations in Natural Images** Che-Chun Su, Lawrence Cormack, Alan Bovik
- 36.348 **Hierarchical correlational structures in natural scenes** Zhiyong Yang, Xiaoyuan Zhu, Julian Nussbaum
- 36.349 **Efficient Coding in Active Perception** Jochen Triesch, Thusitha Chandrapala, Sébastien Forestier, Luca Lonini, Constantin Rothkopf, Bert Shi, Céline Teulière, Chong Zhang, Yu Zhao
- 36.350 **'Natural' image statistics and 'Neoplasticism' - what could be the formula to compose a Mondrian?** Johannes M. Zanker, Alexandra Kalpadakis-Smith, Szonya Durant
- 36.351 **Border salience reveals a curved global geometry of the perceptual space of local image statistics** Syed M. Rizvi, Mary M. Conte, Jonathan D. Victor
- 36.352 **Sensitivity to local image statistics is (almost) scale-invariant** Mary M. Conte, Syed M. Rizvi, Daniel J. Thengone, Jonathan D. Victor

Perceptual Learning: Plasticity and adaptation

Sunday, May 18, 2:45 - 6:45 pm

Poster Session, Banyan Breezeway

- 36.401 **Lateral Masking Reveals Effects of Invading Activity of Short-Term Visual Plasticity** Dorothy Currey, Matthew Gannon, Nathan Parks
- 36.402 **Does size matter? The effect of different magnitudes of prismatic adaptation on perceptual and motor biases.** Christopher Striemer, Priya Nath, Karyn Russell
- 36.403 **Visual adaptation as inhibitory reweighing** Zachary Westrick, David Heeger, Michael Landy
- 36.404 **Residual inefficiencies of recovered vision in cortically blind fields - insights from equivalent noise analysis** Matthew Cavanaugh, Michael Melnick, Ruyuan Zhang, Mariel Roberts, Anasuya Das, Dujie Tadin, Marisa Carrasco, Krystal Huxlin
- 36.405 **Going beyond blindsight: properties of recovered vision in cortically blind fields** Anasuya Das, Dujie Tadin, Krystal Huxlin
- 36.406 **Repeated days of 2 hr visual adaptation create effects that are faster but weaker.** Juraj Mesik, Stephen A. Engel
- 36.407 **Visuomotor adaptation to random rotation transformations in a continuous tracking paradigm** Katherine Snyder, Lawrence Cormack, Mary Hayhoe
- 36.408 **Adapting the oculomotor reference frame** Terence L. Tyson, Laura Walker, Anna Ma-Wyatt, Donald Fletcher
- 36.409 **Sleep Enhancement of Texture Discrimination Performance is Dependent on Training Paradigm** Drew Walker, Steven Pan, Shaheen Modir, Timothy Rickard
- 36.410 **Action Video Games as a Treatment of Amblyopia in Children: A Pilot Study of a novel, child-friendly action game** Christina Gambacorta, Samuel Huang, Indu Vedamurthy, Mor Nahum, Jessica Bayliss, Daphne Bavelier, Dennis Levi
- 36.411 **Perceptual learning in patients with central scotomata due to hereditary and age-related macular dystrophy** Mark W. Greenlee, Katharina Rosengarth, Carolin Schmalhofer, Markus Goldhacker, Sabine Brandl-Rühle, Tina Plank
- 36.412 **Extrastriate Body Area (EBA) Activation is Greatest During Viewing of a Dance Sequence Compared to Visualization and Movement: Evidence for Learning and Expertise Effects** Joseph DeSouza, Paula Di Noto, Gabriella Levkov, Rachel Bar
- 36.413 **Better Batting Through Perceptual Learning** Jenni Deveau, Dan Ozer, Aaron Seitz
- 36.414 **Fear memories in visual cortex: inter-individual differences related to reflex physiology and genetic variants** L. Forest Gruss, Margaret Bradley, Andreas Keil
- 36.415 **Lateralized insular activation/deactivation as a result of active learning** Lora Likova, Spero Nicholas

Development: Autism

Sunday, May 18, 2:45 - 6:45 pm

Poster Session, Banyan Breezeway

- 36.416 **Intact Multisensory Integration of Low-Level Visual and Auditory Information in ASD** Vanessa Bao, Victoria Doobay, Laurent Motttron, Olivier Collignon, Armando Bertone

- 36.417 **Assessing lateral interactions within the early visual areas of adults with autism.** Sabrina Censi, Mathieu Simard, Laurent Mottron, Dave Saint-Amour, Armando Bertone
- 36.418 **Perceptual Influences on Cognitive Peaks of Ability in Autism** Victoria M Doobay, Vanessa Bao, Laurent Mottron, Armando Bertone
- 36.419 **The role of development in locally-oriented visual perception: an investigation spatial contrast sensitivity in Autism Spectrum Disorder** Jacalyn Guy, Laurent Mottron, Armando Bertone
- 36.420 **Atypical Basic Psychophysics in ASD** Bat-Sheva Hadad
- 36.421 **Increased sampling of motion signals in children with autism** Catherine Manning, Steven Dakin, Marc Tibber, Tony Charman, Elizabeth Pellicano
- 36.422 **Individuals with autism experience stronger visual capture by shape singletons than neurotypicals** Amrita Puri, Kami Koldewyn, Kenith Sobel
- 36.423 **The “Mexican hat” of the attentional focus in autism spectrum disorders** Luca Ronconi, Simone Gori, Maria Devita, Massimo Molteni, Andrea Facoetti
- 36.424 **Orientation discrimination profiles identify distinct subgroups within autism spectrum disorder** Fakhri Shafai, Kimberly Armstrong, Grace Iarocci, Ipek Oruc
- 36.425 **Resistance to distraction in visual search in 2-year-old toddlers with and without Autism Spectrum Disorder (ASD)** Hayley Smith, Sylvia Guillory, Erik Blaser, Zsuzsa Kaldy
- 36.426 **“Don’t Look”: Faces with Eyes Open Influence Visual Behavior in Neurotypicals but not in Individuals with High-Functioning Autism** Alma Gharib, Ralph Adolphs, Shinsuke Shimojo
- 36.427 **Don’t look at the mouth, but then where? – Orthogonal task reveals latent eye avoidance behavior in subjects with diagnosed ASDs : A movie version.** Connie Wang, Eiko Shimojo, Daw-An Wu, Shinsuke Shimojo
- 36.428 **Facial identity is encoded relative to the norm in adults with autism spectrum disorder** Jennifer A. Walsh, Daphne Maurer, Mark D. Vida, Gillian Rhodes, Linda Jeffery, M.D. Rutherford
- 36.429 **?Perception of hierarchical figures in ADHD: A unique difficulty in seeing the trees** Lilach Shalev, Carmel Mevorach, Ayelet Baisa, Nir Shalev, Anna Vaskevich, Dana Mohaban
- 36.433 **Abnormal surround suppression in amblyopic macaques** L.E. Hallum, N.J. Majaj, C. Shooner, R.D. Kumbhani, C.M. Ziemba, J.A. Movshon, L. Kiorpes
- 36.434 **Neural correlates of amblyopia in foveal and parafoveal visual cortex of amblyopic macaque monkeys** Christopher Shooner, Najib J. Majaj, Romesh D. Kumbhani, Luke E. Hallum, Corey M. Ziemba, J. Anthony Movshon, Lynne Kiorpes
- 36.435 **Perceptual Visual Distortions in Juvenile Amblyopes** Marianne E. F. Piano, Anita J. Simmers, Peter J. Bex
- 36.436 **Comparing dichoptic action video game play to patching in adults with amblyopia.** Sean Noah, Jessica Bayliss, Indu Vedamurthy, Mor Nahum, Dennis Levi, Daphne Bavelier
- 36.437 **Is Action Video Game Training Able to Prevent Future Reading Impairment?** Simone Gori, Sandro Franceschini, Milena Ruffino, Maria Enrica Sali, Massimo Molteni, Andrea Facoetti
- 36.438 **Is the Cortical Magnification reduced for the amblyopic eye?** Simon Clavagnier, Serge O Dumoulin, Robert F Hess
- 36.439 **Higher-order Vision in Adults born at Extremely Low Birthweights** Terri Lewis, Louis Schmidt, Daphne Maurer

Development: Amblyopia

Sunday, May 18, 2:45 - 6:45 pm

Poster Session, Banyan Breezeway

- 36.430 **Overlapping but non-interacting neural populations in early visual cortex of a human subject with no optic chiasm.** Benjamin T. Files, Farhan Baluch, Pinglei Bao, Chris Purington, Bosco S. Tjan
- 36.431 **Comparing V1 between myopes and emmetropes.** Konogan Baranton, Thien Huong Nguyen, Masaki Yoshida, Guillaume Giraudet
- 36.432 **Receptive field properties of V1 and V2 neurons in amblyopic macaque monkeys revealed with local spectral reverse correlation** Romesh D. Kumbhani, Najib J. Majaj, Luke E. Hallum, Christopher Shooner, Corey M. Ziemba, J. Anthony Movshon, Lynne Kiorpes

Monday Morning Talks

Development

Monday, May 19, 8:15 - 9:45 am
Talk Session, Talk Room 1
Moderator: Terri Lewis

41.11, 8:15 am **Categorization of faces versus objects in the infant's right occipito-temporal cortex by means of fast periodic visual stimulation** Adelaide de Heering, Goedele Van Belle, Bruno Rossion

41.12, 8:30 am **Early monocular enucleation selectively disrupts the development of neural mechanisms for face perception** Krista Kelly, Keyvan Tcherassen, Brenda Gallie, Jennifer Steeves

41.13, 8:45 am **Cortical Timing, Early Attention, and Functional Vision in Infants with Perinatal Brain Injury** Oliver Braddick, Janette Atkinson, Morag Andrew, Christine Montague-Johnson, Jin Lee, John Wattam-Bell, Jeremy Parr, Peter Sullivan

41.14, 9:00 am **Coarse stereopsis reveals residual binocular function in children with strabismus** Kimberly Meier, Grace Qiao, Laurie M. Wilcox, Deborah Giaschi

41.15, 9:15 am **Over-specific perceptual learning in ASD** Hila Harris, Ryan Egan, Akshat Gupta, Nancy Minshew, Yoram Bonne, David J. Heeger, Dov Sagi, Marlene Behrmann

41.16, 9:30 am **Ensemble perception of size in 4-5 year-old children** Timothy Sweeny, Nicole Wurnitsch, Sophie Bridgers, Alison Gopnik, David Whitney

Visual search

Monday, May 19, 10:45 am - 12:15 pm
Talk Session, Talk Room 1
Moderator: Krista A. Ehinger

42.11, 10:45 am **Foraging and navigating in a virtual orchard: Which tree do you visit next?** Krista A. Ehinger, Jeremy M. Wolfe

42.12, 11:00 am **The Long and the Short of Intertrial Priming** Wouter Kruijne, Martijn Meeter

42.13, 11:15 am **Facilitation of visual search from object-to-scene binding in an immersive virtual environment** Chia-Ling Li, M Pilar Aivar, Dmitry M Kit, Matthew H Tong, Mary M Hayhoe

42.14, 11:30 am **The influence of task set and task switching on visual behavior** Michael Dodd, Mark Mills, Edwin Dalmaijer, Stefan Van der Stigchel

42.15, 11:45 am **Integration of visual features over time: Behavior and brain activity** Sebastian Frank, Eric Reavis, Mark Greenlee, Peter Tse

42.16, 12:00 pm **The handoff of the attentional template from working memory after repeated search: The effects of task difficulty** Eren Gunseli, Christian N.L. Olivers, Martijn Meeter

Attention: Spatial

Monday, May 19, 8:15 - 9:45 am
Talk Session, Talk Room 2
Moderator: Antoine Barbot

41.21, 8:15 am **Proactive spatial inhibition in visual selection** Donatas Jonikaitis, Saurabh Dhawan, Heiner Deubel

41.22, 8:30 am **Attentional modulation is weak in V1 in human amblyopia** Chuan Hou, Kim Yee-Joon, Preeti Preeti Verghese

41.23, 8:45 am **Spatial and feature-based attention differentially affect the gain and tuning of orientation-selective filters** Antoine Barbot, Valentin Wyart, Marisa Carrasco

41.24, 9:00 am **The Mere Exposure Effect Is Modulated By Selective Attention But Not Visual Awareness** Yu-feng Huang, Po-jang Hsieh

41.25, 9:15 am **Serial allocation of visual attention in extrastriate cortex during simultaneous monitoring of multiple locations: a time-resolved fMRI study** Paige Scalf, Elexa St. John-Salltink, Markus Barth, Hawkwan Lau, Floris De Lange

41.26, 9:30 am **Kalman filter models of multiple-object tracking within an attentional window** Sheng-hua Zhong, Zheng Ma, Colin Wilson, Jonathan Flombaum

Object recognition: Neural mechanisms 1

Monday, May 19, 10:45 am - 12:15 pm
Talk Session, Talk Room 2
Moderator: Reza Rajimehr

42.21, **Novel module formation reveals underlying shape bias in primate infero-temporal cortex** Krishna Srihasam, Margaret Livingstone

42.22, **Locally-Optimized Inter-Subject Alignment of Functional Cortical Regions** Marius Cătălin Iordan, Armand Joulin, Diane M. Beck, Li Fei-Fei

42.23, **Functional parcellation of human visual cortex** Reza Rajimehr, Simon Kornblith, Robert Desimone

42.24, **Intermediate human visual areas represent the locations of silhouette edges in natural movies** Mark D. Lescroart, Shinji Nishimoto, Jack L. Gallant

42.25, **Spatial receptive fields persist at the latest stages of the human ventral visual stream** Kendrick Kay, Kevin Weiner, Kalanit Grill-Spector

42.26, **Visual Field Coverage of Category-Selective Regions in Human Visual Cortex Estimated Using Population Receptive Field Mapping** Nathan Witthoft, Mai Nguyen, Golijeh Golarai, Alina Liberman, Karen F. LaRocque, Mary E. Smith, Kalanit Grill-Spector

Monday Morning Posters

3D Perception: Shape from X

Monday, May 19, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 43.301 **Seeing in Shadeworld** Edward Adelson, Phillip Isola
- 43.302 **The experimental bas-relief ambiguity** Maarten Wijnjtes, Maciej Szaniawski, Sylvia Pont
- 43.303 **Limits on the estimation of shape from specular surfaces** Julia Mazzarella, Steven Cholewiak, Flip Phillips, Roland Fleming
- 43.304 **Which pieces anchor the Shape-from-Shading puzzle and how they fit together** Benjamin Kunsberg, Roland Fleming, Steven Zucker
- 43.305 **The perceptual matching of local surface orientation based on shape from shading** Eric Egan, Christopher S. Kallie, James T. Todd
- 43.306 **Perception of Local Surface Patches Using Shape From Shading** Christopher S. Kallie, Eric Egan, James T. Todd
- 43.307 **Is the Perception of 3D Shape from Shading Based on Assumed Reflectance and Illumination?** James Todd, Eric Egan
- 43.308 **Stereo-curvature aftereffects are retinal-position dependent and not scale dependent** Pengfei Yan, Hiroaki Shigemasa
- 43.309 **The relative effectiveness of different line drawing algorithms at conveying 3D shape** Kevin Sanik, Manish Singh
- 43.310 **Local and global cues to depth in line drawings** Seha Kim, Shaheera Sarwar, Manish Singh, Jacob Feldman
- 43.311 **Specularity and shape from line drawings** Flip Phillips, Julia Mazzarella, Pete Docter
- 43.312 **The retinal correlate of linear perspective in slant perception** Casper Erkelens
- 43.313 **Sensitivity to Spatial Frequency Chirp in the Early Visual Cortex** Corentin Massot, Tai Sing Lee
- 43.314 **Can 3D Shape be Estimated from Focus Cues Alone?** Rachel A. Albert, Abdullah Bulbul, Rahul Narain, James F. O'Brien, Martin S. Banks
- 43.315 **Insights into the perception of 3-D deforming shapes and shape deformations from comparisons of foveal and peripheral performance** Anshul Jain, Qasim Zaidi
- 43.316 **Dynamic perspective cues enhance depth from motion parallax** Athena Buckthought, Ahmad Yoonessi, Curtis L. Baker
- 43.317 **The effect of age upon the perception of 3-D shape from motion** Jacob Cheeseman, J. Farley Norman, Jessica Pyles, Michael Baxter, Kelsey Thomason, Autum Calloway
- 43.318 **Effects of reflectance and object motion in estimating 3D structure** Dicle N. Dövençioğlu, Maarten W. A. Wijnjtes, Ohad Ben-Shahar, Katja Doerschner
- 43.319 **Depth perception from motion parallax: dependence on texture spatial frequency and orientation** Ahmad Yoonessi, Athena Buckthought, Curtis Baker
- 43.320 **Depth cue integration with the Intrinsic Constraint Model and the Motion/Pursuit Ratio for motion parallax.** Mark Nawrot, Jessica Holmin, Keith Stroyan, Fulvio Domini

Eye movements: Saccade mechanisms and metrics

Monday, May 19, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 43.321 **Contextual saccade adaptation can induce contextual perceptual effects** Reza Azadi, Mark Harwood
- 43.322 **Saccadic plasticity induced by a periodic disturbance of visual feedback** Carlos Cassanello, Sven Ohl, Martin Rolfs
- 43.323 **Rotation of the perceived vertical axis induced by saccadic adaptation** Barbara Dillenburger, Michael Morgan
- 43.324 **Spatial scale strongly modulates saccade adaptation.** Mark Harwood, Afsheen Khan, Annabelle Blangero
- 43.325 **Dichoptic saccadic adaptation** Guido Maiello, William J. Harrison, Peter J. Bex
- 43.326 **Dynamics of target and distractor spatial averaging in the global effect** Woo Young Choi, Jayalakshmi Viswanathan, Manfred Kvissberg, Jason Barton
- 43.327 **Saccadic reaction time distributions follow the matching law in a concurrent variable interval reinforcement schedule** Laurent Madelain
- 43.328 **Lateral interactions of competing stimuli modulate visual response fields in the frontal eye fields** Robert Marino, Amirsaman Sajad, Hongying Wang, Xiaogang Yan, Douglas Crawford
- 43.329 **Dissecting the delay in the saccadic size-latency phenomenon.** Jelmer De Vries, Mark Harwood
- 43.330 **Investigating the time course of luminance and orientation influences on saccadic behavior** Delphine Massendari, Christophe Tandonnet, Eric Castet, Françoise Vitu
- 43.331 **Saccade Endpoint Variability During Efficient and Inefficient Visual Search** Dylan Morrow-Jones, Richard Heitz, Jeffrey Schall
- 43.332 **Saccadic system rhythmicity accounts for inhibition of return** Xiaoguang Tian, Ziad Hafed
- 43.333 **How the distorted representation of visual space in our brain constrains the way we move our eyes.** Françoise Vitu, Soazig Casteau, Delphine Massendari, Lotje van der Linden
- 43.334 **Alpha-Stable Distributions and Saccadic Foraging** William Hahn, Elan Barenholtz
- 43.335 **Saccadic timing is determined by both accumulated evidence and the passage of time** John Wilder, Cordelia Aitkin
- 43.336 **Correcting video-based eye tracking signals for pupil size artifacts** Kyoungwhan Choe, Randolph Blake, Sang-Hun Lee
- 43.337 **Clarifying the validity of eye movement measures from various eye tracker types; a systematic study of data quality, event detection algorithms and filters.** Fiona Mulvey, Raimondas Zemblys, Linnea Larsson, Kenneth Holmqvist

Eye movements: Natural tasks and environments

Monday, May 19, 8:30 am - 12:30 pm

Poster Session, Jacaranda Hall

43.338 **Saccade direction and surface orientation: effect of scene context** Josselin Gautier, Olivier Le Meur, Sarah Waugh

43.339 **Pictorial Human Spaces: How Well do Humans Perceive a 3D Articulated Pose?** Elisabeta Marinoiu, Dragos Papava, Cristian Sminchisescu

43.340 **Implicit measures of whether conceptual knowledge increases interest in photographs** Gabriela Duran, Mary A. Peterson

43.341 **Eye fixations in video: Quantifying the effects of meaning and action on inter-observer convergence** Tom Foulsham, Rachel Grenfell-Essam

43.342 **The Look of Evil: How are Eye Movements Influenced by Film Comprehension?** John Hutson, Lester Loschky, Tim Smith, Joseph Magliano

43.343 **What Would Jaws Do? The tyranny of film and the relationship between gaze and higher-level comprehension processes for narrative film.** Lester Loschky, Adam Larson, Joseph Magliano, Tim Smith

43.344 **Predicting observers' task from their scanpaths on natural scenes** Ali Borji, Laurent Itti

43.345 **Does an interaction catch the eye? Decoding eye movements to predict scene understanding** Gregory Zelinsky, Hossein Adeli

43.346 **Statistics of Eye Movements in Natural Tasks** Brian Sullivan, Saeideh Ghahghaei, Laura Walker

43.347 **Predicting the task from eye movements using multivariate pattern analysis** Grigori Yourganov, Marc Berman, John Henderson

43.348 **Oculomotor behavior of expert and novice geologists in the field** Jeff B. Pelz, Tommy P. Keane, Karen M. Evans, Kate Walders, John A. Tarduno, Robert A. Jacobs

43.349 **Predicting eye movements of rhesus monkeys searching for pedestrians in natural images** Mark Segreaves, Sara Caddigan, Ren-Shuoh Kuo, Konrad Kording

43.350 **Microsaccades and drift are similarly modulated by stimulus contrast and anticipation** Yoram Bonne, Moshe Fried, Amos Arieli, Uri Polat

Spatial vision: Crowding and eccentricity

Monday, May 19, 8:30 am - 12:30 pm

Poster Session, Banyan Breezeway

43.401 **The two-dimensional shape of the crowding zone following macular lesions** Susana Chung, Jean-Baptiste Bernard, Girish Kumar, Anirvan Nandy, Bosco Tjan

43.402 **The size of population receptive field in V2 and crowding effect** Peng Cai, Dongjun He, Fang Fang

43.403 **EEG frequency tagging dissociates target and flanker processing in crowding** Vitaly Chicherov, Michael H Herzog

43.404 **Crowding and Visual Field Inhomogenities** Jennifer Anderson, E. Leslie Cameron, J. Jason McAnany, Michael Levine

43.405 **Visual acuity and spatial interaction zones: investigating the periphery in anisometropic amblyopia** M Izzuddin Hairol, Norazizah Abd-Latif, Pui Juan Woi, Nurul Hafizah Ahmad-Rashaidi, Sharanjeet Kaur, Sarah J Waugh

43.406 **Accuracy in Localising the Centre of a Circle** Hongfan Shen, Damien Mannion, Seong-Whan Lee, Daniel Kersten

43.407 **Random-sampling leads to multiplicative noise in crowded displays** Carl Gaspar, Wei Chen

43.408 **The neural correlate of the polarity advantage effect in crowding** Ziyun Zhu, Fang Fang

43.409 **The Time Course of Crowding Following a Change in Target Orientation** Jeffrey Nador, Yury Petrov, Adam Reeves

43.410 **Motion-priming in crowding: evidence for motion averaging** Andrea Pavan, Martin Gall, Mark W. Greenlee

43.411 **Spatial and temporal crowding with normal observers** Shira Tkacz-Domb, Einat Rasha, Yaffa Yeshurun

43.412 **Investigating visual crowding of objects in complex scene images** Allison Coy, Ryan Ringer, Adam Larson, Michael Luczak, Lester Loschky

43.413 **The roles of letter exposure and letter frequency in learning to identify crowded letters** Deyue Yu, Jesse Husk

43.414 **Perceptual learning reduces identity errors but not position errors in visual crowding** Ying-Zi Xiong, Cong Yu, Jun-Yun Zhang

43.415 **Music-reading training alleviates crowding with musical notation** Yetta Kwailing Wong, Alan C.-N. Wong

43.416 **Qualitative difference in categorical priming between conscious and unconscious processing of numbers: Evidence from visual crowding** Yih-Shiuan Lin, Su-Ling Yeh

43.417 **A new font to reduce crowding** Jean-Baptiste Bernard, Carlos Aguilar, Eric Castet

43.418 **Crowding predicts reading abilities** Oren Yehezkel, Anna Sterkin, Maria Lev, Uri Polat

43.419 **Foveal letter crowding: Is it due to contour interaction or gaze instability?** Vineela Varikuti, John Siderov, Ebi Osuobeni

43.420 **Effects of stimulus duration on foveal crowding using visual acuity letters.** Sarah J Waugh, Monika A Formankiewicz, M Izzuddin Hairol

43.421 **Foveal crowding exists for short presentation times and reduces after training** Maria Lev, Oren Yehezkel, Anna Sterkin, Uri Polat

43.422 **Crowding is similar for eye movements and manual responses** Funda Yildirim, Frans W. Cornelissen

Color and light: Adaptation and constancy

Monday, May 19, 8:30 am - 12:30 pm

Poster Session, Banyan Breezeway

43.423 **Interocular lateral interaction subserves dichoptic positive color aftereffects** Chien-Chung Chen, Huan-Tin Chen, Takao Sato

43.424 **Flicker adaptation desensitizes the magnocellular but not the parvocellular pathway** Xiaohua Zhuang, Dingcai Cao, Joel Pokorny

43.425 **The Twinkle Aftereffect Is Modulated by Attention and Awareness** Xiaoxu Fan, Lan Wang, Sheng He

43.426 **Colour appearance and age-related adaptation mechanisms** Sophie Wuergler

- 43.427 **The effects of delay and chromatic noise on hue bias and precision** Maria Olkkonen, Patrice McCarthy, Sarah Allred
- 43.428 **Colour Constancy in Immersive Viewing** Anya Hurlbert, Bradley Pearce, Michal Mackiewicz, Graham Finlayson
- 43.429 **Effects of Illuminant chromaticity on color constancy** David Weiß, Karl Gegenfurtner
- 43.430 **Color constancy and palette complexity in real scenes** Patrice McCarthy, Maria Olkkonen, Sarah R Allred
- 43.431 **Is color constancy influenced by the glossiness of color paper?** Yoko Mizokami, Asuka Akahori, Hirohisa Yaguchi
- 43.432 **Color constancy in a natural task is high** Ana Radonjić, Nicolas P. Cottaris, David H. Brainard
- 43.433 **Light field interpolation across an insulating white border** Minjung Kim, Kelly Ng, Laurence Maloney

Perceptual organization: Grouping

Monday, May 19, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

- 43.434 **Neural correlates of spatio-temporal grouping in bistable apparent motion perception** Lu Shen, Lihan Chen, Qi Chen
- 43.435 **An early electrophysiological response associated with illusory contour processing is reduced by cognitive load** Ryuji Takeya, Tetsuko Kasai
- 43.436 **Grouping-based attention influences surround suppression in human primary visual cortex** Anastasia Flevaris, Scott Murray
- 43.437 **Stimulus Features Contributing to Perceptual Organization of Complex Scenes** Beliz Hazan, Daniel D. Kurylo, Zeynel Baran, Xuan Zhao
- 43.438 **The relation between acuity of the Approximate Number System and dorsal and ventral stream functions** Sara Giovagnoli, Mariagrazia Benassi, Kerstin Hellgren, Lea Forsman, Roberto Bolzani
- 43.439 **Perceptual grouping of multiple inducers in visual completion stimuli** Gal Nir, Ohad Ben-shahar
- 43.440 **Can a competition between grouping principles be resolved without attention?** Einat Rashal, Yaffa Yeshurun, Ruth Kimchi
- 43.441 **Contextual disambiguation of rotating Necker cubes** Marouane Ouhnana, Frederick Kingdom
- 43.442 **Conjoint Effects of Spatial Proximity and Binocular Disparity in Perceptual Grouping.** Steven Scheid, Sergei Gepshtein, Michael Kubovy
- 43.443 **Grouping by similarity is serial, irrespective of spacing or group size** Dian Yu, Derek Tam, Steven Franconeri
- 43.444 **What's the purpose of perceptual averaging?** Jennifer Corbett, David Melcher
- 43.445 **Grouping by Temporal Structure: Perceptual Organization Without Awareness?** Sharon E. Guttman
- 43.446 **Hemispatial asymmetries of grouping effects on numerosity perception** Lixia He, Tiangang Zhou, Yan Zhuo, Lin Chen

Face perception: Experience, learning and expertise 1

Monday, May 19, 8:30 am - 12:30 pm
Poster Session, Pavilion

- 43.501 **Change in asymptote reveals distinct mechanisms underlying adaptation to faces** Yihwa Baek, Stephen A. Engel

- 43.502 **The effect of visual familiarity on the implicit learning of prototype and eigenfaces** Xiaoqing Gao, Hugh Wilson
- 43.503 **Invariance across view-points and viewing distances, and its effects on face perception—evidence from personally familiar face processing** Meike Ramon
- 43.504 **Face Matching Skill: Studies of Individual Differences and Training** Anne Hillstrom, Gary Dalton, Lorraine Hope, James Sauer
- 43.505 **Adaptation to an average expression improves discrimination of facial expressions** Nichola Burton, Linda Jeffery, Andrew Calder, Gillian Rhodes
- 43.506 **Testing the face-specificity of the inversion effect in budgie experts** Alison Campbell, James Tanaka
- 43.507 **Fido-specific after-effects: Dog specific adaptation for dog-owners but not non-owners.** Sarah Laurence, Victoria Ratcliffe, Graham Hole, David Reby, Catherine Mondloch
- 43.508 **The influence of perceptual expertise on object aftereffects: the case of faces, birds and cars** Linda X Wang, Jason JS Barton, Jodie Davies-Thompson
- 43.509 **Computer generated faces may not tap face expertise** Kate Crookes, Louise Ewing, Ju-dith Guildenhuys, William Hayward, Matt Oxner, Stephen Pond, Gillian Rhodes
- 43.510 **Beyond perceptual expertise: Revisiting the neural substrates of expert object recognition** Assaf Harel, Dwight Kravitz, Chris Baker
- 43.511 **Measurement of semantic knowledge of object categories: Creating the Semantic Vanderbilt Expertise Test (SVET)** Ana Van Gulick, Isabel Gauthier
- 43.512 **Modeling the Moderation of Experience in Face and Object Recognition** Panqu Wang, Benjamin Cipollini, Akinyinka Omigbodun, Isabel Gauthier, Garrison Cottrell
- 43.513 **Gender effects for toy faces reveal qualitative differences in face processing strategies** Kaitlin Ryan, Isabel Gauthier
- 43.514 **How does reading direction modulate perceptual and visuospatial attention biases?** Harry Chung, Joyce Liu, Janet Hsiao
- 43.515 **Painted faces: misperceiving shading as pigmentation** Amy Mac, Katherine Tregillus, Frederick A. A. Kingdom, Michael A. Webster
- 43.516 **Evidence for opponent coding of hand-identity within a multidimensional 'hand-space'** Federica Biotti, Richard Cook

Perception and action: Decisions, inter-ception

Monday, May 19, 8:30 am - 12:30 pm
Poster Session, Pavilion

- 43.517 **Action relations affect affordance selection: Evidence from visuomotor responses to paired objects** Shan Xu, Dietmar Heinke, Glyn Humphreys
- 43.518 **Bayesian Theory of Action-Specific Effects Suggests Integration of Visual- and Action-based Information** Jessica Witt
- 43.519 **The role of basic visual features in priming** Fredrik Allenmark, Karolina Moutsopoulou, Florian Waszak
- 43.520 **Examining decision heuristics in a timed visuomotor task** Nicholas M. Ross
- 43.521 **Visual and motor priming effects on prediction of observed action in the first and third person perspectives** Victoria C. Brattan, Daniel H. Baker, Steven P. Tipper

43.522 **Blind prediction of perceptual states using patterns of motor variability** Jillian Nguyen, Jay Ravaliya, Ushma Majmudar, Thomas Papatthomas, Elizabeth Torres

43.523 **The Effects of Speed and Direction on Eye-hand Coordination for Moving Targets** Melissa Bulloch, Steven Prime, Jonathan Marotta

43.524 **Learned action effects modulate salience in space: Evidence for the preactivation theory** Davood Gozli, Jay Pratt

43.525 **Titchener's T in Context – Delimited, Discrete Monomotif Patterns** Klaus Landwehr

43.526 **The temporal balance between evidence integration and probabilistic sampling in perceptual decision making** Jeppe Christensen, Máté Lengyel, József Fiser

43.527 **Ups and downs: task-dependent timescale of evidence integration in environments with smooth, oscillatory probability changes** Friederike Schüttler, Peter F. Hahn, Laurence T. Maloney

43.528 **We know our own movement errors, but we hardly correct for them: An instance of optimal behavior** Marc Ernst, Loes van Dam

43.529 **Active Sampling supported Comparison of Causal Inference Models for Agency Attribution in Goal-Directed Actions** Tobias F Beck, Dominik Endres, Axel Lindner, Martin A Giese

43.530 **Extracting the global confidence across multiple trials of a visual task** Alan L. F. Lee, Vincent de Gardelle, Pascal Mamassian

43.531 **Action Encoding and Recognition based on Multi-Scale Spatial-Temporal Natural Action Structures** Suxing Liu, Zhiyong Yang

43.532 **Modeling response time and accuracy during a visual discrimination stop-signal task** Paul Middlebrooks, Bram Zandbelt, Thomas Palmeri, Gordon Logan

43.533 **Visually-guided interceptive actions performed in virtual environments** David Mann, John van der Kamp

43.534 **When must one look at the ball in order to be able to catch it?** Joan López-Moliner, Eli Brenner

43.535 **Action distorts perceived duration of sensory consequences** Clare Press, Eva Berlot, Geoff Bird, Richard Ivry, Richard Cook

43.536 **Body and objects representations are associated with similar distortions** Aurelie Saulton, Trevor Dodds, Heinrich Buelthoff, Stephan de la Rosa

43.537 **Tracking hidden objects with efficient physical prediction** Kevin A Smith, Eyal Dechter, Joshua B Tenenbaum, Edward Vul

43.538 **Why is Counting-by-Eye so Difficult? Effects of Spatial Structure and Reduced Luminance** D. Alfred Owens, Jacob Benedict, Carly Campoli, Margi Shah

43.539 **Long-lasting paradoxical effects of attentional-states on visuomotor learning** Joo-Hyun Song, Patrick Bédard

Visual memory: Encoding and retrieval

Monday, May 19, 8:30 am - 12:30 pm
Poster Session, Pavilion

43.540 **Intention and Aesthetic Value is not key to large Pictorial Long-Term Memory** Karla Evans, Alan Baddeley

43.541 **Briefly flashed scenes can be stored in long-term memory** Michèle Fabre-Thorpe, Arnaud Delorme, Marlène Poncet

43.542 **If at first you don't retrieve, try, try again: The role of retrieval failures in visual working memory** Daryl Fougny, Timothy F. Brady, George A. Alvarez

43.543 **Semantic bias in visual working memory** Farahnaz Ahmed Wick, Lucia Saura, Chia-Chien Wu, Marc Pomplun

43.544 **Attentional inhibition has affective consequences for visual stimuli represented in short- and long-term memory** David De Vito, Anne E. Ferrey, Katherine McArthur, Mark J. Fenske

43.545 **Attention is Necessary for Iconic Memory** Muge Erol, Arien Mack, John Bert

43.546 **Pupil Response Predicts Memory Strength in a Visual Short-term Memory Task** Sylvia Guillory, Zsuzsa Kaldy, Mohinish Shukla, Marc Pomplun

43.547 **The first four seconds: an assessment of post-stimulus processing in visual short-term memories** Jane Jacob, Bruno Breitmeyer, Melissa Trevino

43.548 **Assessment of Maintenance and Consolidation in Visual Short-Term Memories** Melissa Trevino, Bruno Breitmeyer, Jane Jacob

43.549 **Factors at Encoding and Retrieval Affect Color Precision in Visual Working Memory** Michael Patterson, Miao Qin Sim

43.550 **Revaluating the Visual Short-Term Memory Benefit for 3-D Stimuli** Sarah R. Zohar, Laurie M. Wilcox

43.551 **Facilitating 6-month-old infants' visual short-term memory for multiple-item arrays** Shipra Kanjlia, Steven J. Luck, Lisa M. Oakes

43.552 **The Use of Relations and Prototypes in a Spatial Memory Task Depends on Timing** David Landy, L. Elizabeth Crawford, Amanda N. Presson

43.553 **Mapping the spatial distribution of short-term memory representations for visual motion** Adam C Riggall, Bradley R Postle

Scene perception: Categorization and memory

Monday, May 19, 8:30 am - 12:30 pm
Poster Session, Pavilion

43.554 **The importance of visual features in rapid scene categorization: Evidence from repetition blindness.** Martin J. Goldzieher, Irina M. Harris

43.555 **Spatial Frequency in Detection of Grayscale Pictures in RSVP** Carl Erick Hagmann, Mary C. Potter

43.556 **Perception of real-world scenes at multiple spatial scales** Caitlin Mullin, Nicola Van Rijsbergen, Philippe Schyns, Johan Wagemans

43.557 **Sensitivity to spatial ensemble statistics predicts rapid scene perception ability** Anna Shafer-Skelton, Timothy F. Brady, George A. Alvarez

43.558 **Scene syntactic priming boosts lexical access.** Melissa Vo, Jeremy Wolfe

43.560 **Reduced ERP amplitudes for animal stimuli in the absence of conscious awareness** Weina Zhu, Jan Drewes, Karl Gegenfurtner

43.561 **Perceiving the global: The role of surface texture consistency in object and background perception** Matthew X. Lowe, Jonathan S. Cant

43.562 **Interactions between space-based and category-based attention in the ventral and dorsal visual system during real-world visual search** Katharina N. Seidl-Rathkopf, Jiye G. Kim, Marius V. Peelen, Sabine Kastner

43.563 Disambiguating the Effect of clutter on Boundary Extension

Carmela Gottesman

43.564 Fuzzy memories and boundary extension: Individual scenes or episodic experiences

Benjamin A. McDunn, James M. Brown, Ralph G. Hale

43.565 Memory of a Scene Following Viewpoint Change Caused by Viewer Locomotion

Hong-Jin Sun, Michael Comishen, Daniel Zhou, Katrina Radassao, Melanie Iarocci, Christopher Teeter

Scene perception: Summary statistics

Monday, May 19, 8:30 am - 12:30 pm

Poster Session, Pavilion

43.566 Summary statistics of size: Fixed processing capacity for multiple ensembles but unlimited processing capacity for single ensembles

Mouna Attarha, Cathleen M. Moore, Shaun P. Vecera

43.567 The effect of gain adaptation on the sensitivity of human perceptual judgements.

Santiago Herce Castañón, Samuel Cheadle, Konstantinos Tsetsos, Christopher Summerfield

43.568 Visual size averaging is parallel but depends on the range

Natalia Tiurina, Igor Utochkin

43.569 The perception of variety in color segmented sets

Anton Gura, Igor Utochkin

43.570 Seeing variety: The determinants of visual representation of variance statistics

Igor Utochkin, Anton Gura

43.571 Rapidly estimating numerosity independent of size-related distance or occlusion

Guillaume Riesen, Harald Ruda, Ennio Mingolla

43.572 Neural Representation of Ensemble Orientation in Human Visual Cortex

Ruosi Wang, Yaoda Xu

43.573 Plinko: A spatial probability task to measure learning and updating.

Alex Filipowicz, Derick Valadao, Britt Anderson, James Danckert

43.574 Summary statistics influence how individuals are perceived in noise.

Kyle Killebrew, Christopher Blair, Gideon Caplovitz

43.575 Foveal input is not required for ensemble coding of emotional faces

Katherine Wood, Benjamin Wolfe, Anna Kosovicheva, Allison Yamanashi Leib, David Whitney

43.576 Neural computation of scene gist with and without attention

Iris Groen, Sennay Ghebreab, Victor Lamme, Steven Scholte

43.577 The effects of spatial organization on numerosity judgments in real-world scenes

Stacey Rashford, Elan Barenholtz

43.578 Improving computational models of early visual cortex using single image ERP data

H.Steven Scholte, Sennay Ghebreab

43.579 Ensemble Perception of Multiple Crowd Characteristics

Allison Yamanashi Leib, Yang Bai, Anna Kosovicheva, Kelly Chang, Amrita Puri, Lynn Robertson, David Whitney

Tuesday Morning Talks

Perceptual organization: Surfaces, segmentation, shapes and objects

Tuesday, May 20, 8:15 - 9:45 am

Talk Session, Talk Room 1

Moderator: Edward Adelson

51.11, 8:15 am **Reconstructing the 'third dimension' from 2D shapes: Evidence from the perception of balance** Chaz Firestone, Frank Keil

51.12, 8:30 am **Visual cue diagnosticity for boundary detection in natural scenes: A computational study** David Alex Mély, Junkyung Kim, Mason McGill, Yuliang Guo, Thomas Serre

51.13, 8:45 am **Dynamic Illusory Size-Contrast: A relative-size illusion modulated by stimulus motion and eye movements** Ryan Mruczek, Chris Blair, Gideon Caplovitz

51.14, 9:00 am **Enigmatic cases of modal amodal completion: What do modal and amodal percepts represent?** Vebjørn Ekroll, Tom R. Scherzer

51.15, 9:15 am **Bending the truth: Generative models of shape for inferring transformations** Patrick Spröte, Roland Fleming

51.16, 9:30 am **Puffball Part Segmentation: Psychophysical and Statistical Evaluation** Nathaniel Twarog, Edward Adelson

Perception and action: Reaching and grasping

Tuesday, May 20, 10:45 am - 12:30 pm

Talk Session, Talk Room 1

Moderator: Fulvio Domini

52.11, 10:45 am **A preference to adjust where rather than when to hit a moving target** Eli Brenner, Jeroen BJ Smeets

52.12, 11:00 am **Adaptation to visual feedback delays in predictable manual tracking recalibrates perceived simultaneity** Marieke Rohde, Loes van Dam, Marc Ernst

52.13, 11:15 am **Visual on-line control of grasping movements** Robert Volcic, Fulvio Domini

52.14, 11:30 am **Getting a grip on different materials** Vivian C. Paulun, Karl R. Gegenfurtner, Melvyn A. Goodale, Roland W. Fleming

52.15, 11:45 am **Visual Feedforward Grasping and Motor Adaptation to Actual Target Width in Visual Form Agnostic Patient DF** Robert L. Whitwell, A. David Milner, Cristiana Cavina-Pratesi, Masih Barat, Caitlin M. Byrne, Melvyn A. Goodale

52.16, 12:00 pm **Neurophysiological investigations of speed-accuracy tradeoff** Richard Heitz, Jeffrey Schall

52.17, 12:15 pm **How does sensorimotor control change with age? A comparison of visual and pointing performance in older and younger people** Anna Ma-Wyatt, Jessica O'Rielly, Reuben Pucek, Adam Kane, Preeti Verghese, Laura Walker

Visual working memory: Neural mechanisms

Tuesday, May 20, 8:15 - 9:45 am

Talk Session, Talk Room 2

Moderator: Timothy F. Brady

51.21, 8:15 am **Induced alpha rhythms reveal the content and quality of visual working memory representations with high temporal precision** David E. Anderson, John T. Serences, Edward K. Vogel, Edward Awh

51.22, 8:30 am **Neural correlates of visual working memory precision in frontal and parietal cortex** Qing Yu, Won Mok Shim

51.23, 8:45 am **Neural evidence for the flexible use of working memory and episodic memory in prospective remembering** Jarrod Lewis-Peacock, Jonathan Cohen, Kenneth Norman

51.24, 9:00 am **Reconstructing stimulus-specific working memory representations in human visual, parietal, and frontal cortex.** Edward Ester, John Serences

51.25, 9:15 am **Working memory accumulates more information from real-world objects than from simple stimuli: Evidence from contralateral delay activity** Timothy F. Brady, Viola S. Störmer, George A. Alvarez

51.26, 9:30 am **Decoding reveals distractor modulation of visual short-term memory contents in occipital but not in parietal cortices** Katherine Bettencourt, Yaoda Xu

Object recognition: Neural mechanisms 2

Tuesday, May 20, 10:45 am - 12:30 pm

Talk Session, Talk Room 2

Moderator: Brendan Ritchie

52.21, 10:45 am **Rapid extraction of category-specific shape statistics: Evidence from event-related potentials** Bria L. Long, Viola S. Störmer, George A. Alvarez

52.22, 11:00 am **The time course of three-dimensional object recognition in human vision: An ERP study** Zoe J. Oliver, Mark V. Roberts, Alan J. Pegna, Charles Leek

52.23, 11:15 am **Representational geometry measures predict categorisation speed for particular visual objects** Ian Charest, Thomas A. Carlson, Nikolaus Kriegeskorte

52.24, 11:30 am **Selectivity for non-accidental properties emerges from learning object transformation sequences** Sarah Parker, David Reichert, Thomas Serre

52.25, 11:45 am **Emerging Representational Geometry for Objects Predicts Reaction Time for Categorization** J. Brendan Ritchie, David Tovar, Thomas Carlson

52.26, 12:00 pm **Large-scale Characterization of a Universal and Compact Visual Perceptual Space** Ha Hong, Ethan Solomon, Dan Yamins, James DiCarlo

52.27, 12:15 pm **Selective Metamorphopsia for Letters and Digits** Michael McCloskey, Teresa Schubert, David Rothlein, Brenda Rapp, Diane Slonim, Karen Van Den Heuvel

Tuesday Morning Posters

Visual search: Attention

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 53.301 **Winter is coming: How humans forage in a temporally structured environment** Jinxia Zhang, Daryl Fougny, Xue Gong, George Alvarez, Jeremy Wolfe
- 53.302 **Visual search is influenced by 3D spatial layout** Nonie Finlayson, Philip Grove
- 53.303 **Workload Capacity Analysis of Stereoscopic Pop-Out in Visual Search** Joseph Houpt, Leslie Blaha, Elizabeth Fox
- 53.304 **Searching for the right word: Hybrid visual and memory search for words** Sage E.P. Boettcher, Jeremy M. Wolfe
- 53.305 **Updating for free? Span and Updating tasks modulate Visual Search in a similar manner** Beatriz Gil-Gómez de Liaño, Trafton Drew, María Quirós, Jeremy Wolfe
- 53.306 **Nonlinear effects of target-distractor feature sharing in triple conjunction visual search** Maria Nordfang, Jeremy M. Wolfe
- 53.307 **When Does the Aardvark Move to the Next Anthill? Foraging search with moving targets** Matthew S. Cain, Sage E. P. Boettcher, Jeremy M. Wolfe
- 53.308 **Enhanced filtering by motion in visual search: The case of action video-game play** Kevin Dent
- 53.309 **Distractor heterogeneity effects in visual search are mediated by “segmentability”** Maria Yurevich, Igor Utochkin
- 53.310 **Guiding search for camouflaged targets: Does color matter?** Alyssa Hess, Mark Neider
- 53.311 **Impetuous search execution is postponed for the purpose of an efficient conjunction search with a coherent target template** Junha Chang, Joo-Seok Hyun
- 53.312 **Taming the White Bear: Learning Distractor Features Begins With a Cost, But Eventually Allows For More Efficient Search** Corbin A. Cunningham, Howard E. Egeth
- 53.313 **Serial Search Can Occur in Multiple Feature Dimensions at the Same Time** Steve Haroz, William Prinzmetal, David Whitney
- 53.314 **Improving Search through Rapid Serial Visual Presentation** Chad Peltier, Samuel Hemsteger, Mark Becker
- 53.315 **Confirmation bias in visual search** Jason Rajsic, Daryl Wilson, Jay Pratt
- 53.316 **The effects of competitiveness on visual search** Carissa Romero, Andrew Trevathan, Eriko Self
- 53.317 **Visual Search for MILSTD 2525 Glyphs** Navaneethan Siva, Hannah Huffman, Alex Chaparro, Evan Palmer
- 53.318 **Right temporo-parietal junction involvement in visual feature binding** Stefan Pollmann, Wolf Zinke, Florian Baumgartner, Franziska Geringswald, Michael Hanke
- 53.319 **Chemotherapy impairs visual search: A meta-analysis and a call to action** Todd Horowitz
- 53.320 **Relationship between cerebral blood flow and body dissatisfaction in visual search task involving body-related information** Moe Nagahata, Masamitsu Harasawa, Hiroshi Ishikane

Visual Search: Models and theories

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 53.321 **New exploration of classic search tasks** Honghua Chang, Ruth Rosenholtz
- 53.322 **The role of lure heterogeneity in logarithmic visual search** Deborah Cronin, Alejandro Lleras, Simona Buetti
- 53.323 **A blurring based model of peripheral vision predicts visual search performances** Rachit Dubey, Chun Siong Soon, Po-Jang (Brown) Hsieh
- 53.324 **Spatial deployment of attention in visual search: new evidence against a strict parallel model** Laura Dugué, Douglas McLelland, Mathilde Lajous, Rufin VanRullen
- 53.325 **Information pursuit as a model for efficient visual search** Hee Yeon Im, Sheng-hua Zhong, Bruno Jedynak, Lisa Feigenson, Jonathan Flombaum
- 53.326 **Logarithmic, sequential discounting of elements in a search display during feature search: evidence in favor of the Information Theory of Vision** Anna Madison, Simona Buetti, Alejandro Lleras
- 53.327 **Linear models of visual search are highly implausible: towards a better understanding of search in real world scenes using logarithmic search functions.** Zhiyuan Wang, Simona Buetti, Alejandro Lleras
- 53.328 **Searching through the hierarchy: A behavioral and computational approach to understanding categorical search** Justin Maxfield, Chen-Ping Yu, Gregory Zelinsky

Perceptual learning: Methods and mechanisms

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 53.329 **Learning of New Perceptual Groupings - A Biologically Plausible Recurrent Neural Network Model that Learns Contour Integration** Tobias Brosch, Pieter Roelfsema, Heiko Neumann
- 53.330 **Further evidence that connectivity differences may drive lateralization of visual processing** Ben Cipollini, Garrison Cottrell
- 53.331 **Feature distributions constrain visual object perception** Judith E. Fan, Nicholas B. Turk-Browne
- 53.332 **Augmented Hebbian Re-Weighting Accounts for Performance and Criterion Change in Perceptual Learning of Asymmetrical Vernier Stimuli** Jiajuan Liu, Barbara Doshier, Zhong-lin Lu
- 53.333 **Visual perceptual training induces two dissociable learning effects** En Zhang, Wu Li
- 53.334 **Investigating Neurochemical Involvement in Task-Irrelevant Perceptual Learning using Pupillometry** Russell Cohen Hoffing, Aaron Seitz
- 53.335 **Perceptual Learning With Indiscriminable Stimuli** Lukasz Grzeczowski, Elisa Tartaglia, Fred Mast, Michael Herzog

53.338 **Dissociating Temporal Order & Simultaneity: A Perceptual Learning Study** Nestor Matthews, Rebecca Achtman, Rachel Fenton, Brynn FitzGerald, Leslie Welch

53.339 **The mechanisms underlying the fast and early improvement in PL** Amit Yashar, Yang Hu, Jiageng Chen, Marisa Carrasco

53.340 **Perceptual learning remains task specific with TPE training** Jun-Yun Zhang, Lin-Juan Cong, Cong Yu

53.341 **Different aspects of training on a texture discrimination task (TDT) improves different attentional abilities** Maro Machizawa, Rebecca Patey, Dongho Kim, Takeo Watanabe

53.342 **The effect of directions of transfer in perceptual learning—a possible confounding factor in double training results** Qingleng Tan, Jeongmin Kim, Takeo Watanabe

53.343 **Alpha-band EEG activity as a signature of automaticity in perceptual learning** Brett Bays, Kristina Visscher, Christophe Le Dantec, Aaron Seitz

53.344 **Linking predictive coding in visual cortex to object representations in the medial temporal lobe** Nicholas C. Hindy, Felicia Y. Ng, Nicholas B. Turk-Browne

53.345 **Dynamic shifts in connectivity between frontal, occipital, hippocampal and striatal regions characterize statistical learning of spatial patterns** Elisabeth A. Karuza, Lauren L. Emberson, Matthew E. Roser, Michael S. Gazzaniga, Daniel Cole, Richard N. Aslin, Jozsef Fiser

53.346 **Macular degeneration affects functional connectivity of primary visual cortex** Kristina Visscher, Rodolphe Nenert, Dawn DeCarlo, Richard Chen, Lesley Ross

Binocular Vision: Summation, interaction and disparity

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

53.401 **Binocular asymmetry in amblyopia** Jian Ding, Dennis Levi

53.402 **A novel method to quantify spatial-frequency dependent binocular imbalance in amblyopia** MiYoung Kwon, Emily Wiecek, Steven C. Dakin, Peter J. Bex

53.403 **A dichoptic action videogame improves the resolution of the amblyopic eye during binocular game play.** Dennis Levi, Indu Vedamurthy, Mor Nahum, Sam Huang, Jessica Bayliss, Daphne Bavelier

53.404 **Monocular cuing does not modify interocular balance for dichoptic global motion perception.** Lanya Tianhao Cai, Ida Huang, Benjamin Backus

53.405 **Dynamic interocular suppression is uncorrelated with perception in early visual areas** Katie L.H. Gray, Greta Vilidaitė, Rebecca E. Kitching, Kirstie H. Wailes-Newson, Daniel H. Baker

53.406 **Binocular luminance contrast reduces dichoptic masking between chromatic stimuli** Danni Wang, Frederick Kingdom

53.407 **Perceptual averaging of dichoptic mixtures of colour contrast promoted by task-irrelevant luminance contrast** Lauren Libenson, Frederick Kingdom

53.408 **Dichoptic masking in color and luminance vision** Yeon Jin Kim, Mina Gheiratmand, Kathy T. Mullen

53.409 **A Novel Illusion Reveals Fundamental Differences in the Binocular Integration of Achromatic and Chromatic Information** Jens Christiansen, Anthony D'Antona, Steven Shevell

53.410 **Binocular Mach Bands** Kenneth Brecher

53.411 **A novel 3D/dichoptic presentation system compatible with large field eye tracking** Bo Cao, Arash Yazdanbakhsh

53.412 **Ocular dominance and retinotopic correspondence enable patent stereopsis** Cherlyn Ng, Yaniv Morgenstern, Dale Purves

53.413 **Stereoscopic depth from absolute and relative disparities** Adrien Chopin, David C. Knill, Dennis M. Levi, Daphne Bavelier

53.414 **Cortical organization of binocular disparity in human V3A** Nuno Goncalves, Hiroshi Ban, Rosa Sanchez-Panchuelo, Susan Francis, Denis Schluppeck, Andrew Welchman

53.415 **Constancy of Perceived Depth from Disparity across Spatial Frequency** Phillip Guan, Martin Banks

53.416 **Combining binocular disparities for depth volume perception** Julie M Harris, Nikki Thomson

53.417 **Effect of eccentricity on disparity distributions in binocular natural images** David Hunter, Paul Hibbard

53.418 **Temporal processing of first, second, and third order disparities by the human visual system** Christian Quaia, Boris Sheliga, Lance Optican, Bruce Cumming

53.419 **Vergence and Vertical disparity signals in Human area V1** Albert V van den Berg, David M Arnoldussen

53.420 **Attention to pattern depth depends on pattern dimensionality** Bart Farell, Cherlyn Ng

53.421 **Size matters: Perceived depth magnitude varies with stimulus height** Inna Tsirlin, Laurie Wilcox, Robert Allison

53.422 **When the Whole is Less than the Parts: Gestalt Grouping Degrades Depth Magnitude Percepts** Lesley Deas, Laurie M. Wilcox

53.423 **Subjective contour yielded by cue combination** Akiko Yasuoka, Masahiro Ishii

Color and light: Neural mechanisms

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

53.424 **Rate Coding in Human Color Vision: The Curious Nearly Cubic Relationship Between Neural Spike Rates and Psychophysical Color Sensitivities** Vincent Billock

53.425 **Color-detection thresholds in macaque monkeys and humans** Bevil Conway, Galina Gagin, Kaitlin Bohon, Adam Butensky, Monica Gates, Yiing Hu, Rosa Lafer-Sousa, Reitumetse Pulumo, Cleo Stoughton, Sonja Swanbeck, Jane Qu

53.426 **The Functional Asymmetry of ON and OFF Channels in the Lateral Geniculate Nucleus (LGN) during a Perceptual Decision Task** Yaoguang Jiang, Dmitry Yampolsky, Gopathy Purushothaman, Vivien Casagrande

53.427 **fMRI adaptation of color and achromatic contrast in the human LGN and visual cortex: evidence for color and luminance selectivity** Dorita H. F. Chang, Robert F. Hess, Benjamin Thompson, Kathy T. Mullen

53.428 **Temporal structure of Human Magnetic Evoked Fields to Colour, Form and Motion** David Crewther

53.429 **Parallel processing of colors and faces in human ventral visual stream: functional evidence and technical challenges** Rosa Lafer-Sousa, Alexander Kell, Atsushi Takahashi, Jenelle Feather, Bevil Conway, Nancy Kanwisher

53.430 **Brightness-Color Interactions in human early visual cortex** Dajun Xing, Ahmed Ouni, Hinde Sahnoud, James Gordon, Robert Shapley

53.431 **Diffusion Tensor Imaging Tractography Of Circadian Regulating Circuits In The Human Brain** Kristin Koller, Paul Mullins, Robert Rafal

53.432 **Melanopsin and cone specific temporal filtering revealed by non-linear pupil responses** Long Luu, Manuel Spitschan, Geoffrey K. Aguirre, David H. Brainard

53.433 **Minimally distinct border estimates of macular pigment distribution** John Erik Vanston, Michael Crognale

53.434 **Noise masking of S+ and S- Tests: Linear Cone Combination Model Suggests Detection by Hue Mechanisms** Rhea T. Eskew, Jr., Timothy G. Shepard

53.435 **Colour mixing and apparent motion: the effect of luminance contrast** Ben Jennings, Frederick Kingdom

53.436 **Rod influence on chromatic discrimination away from chromatic and achromatic backgrounds** Joris Vincent, Steven Buck

Color and light: Cognition

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

53.437 **Global color perception from multi-colored textures: Greater influences of saturated and frequent elements** Eiji Kimura

53.438 **Color-motion feature misbinding without color** Natalie Stepien, Steven Shevell

53.439 **Color-motion feature binding errors are mediated by a higher-order chromatic representation** Wei Wang, Steven Shevell

53.440 **Color assimilation without awareness of color context** Marjan Persuh, Tatiana Aloï Emmanouil, Tony Ro

53.441 **Expectations change the temporal discrimination of flashing stimuli** Rytis Stanikūnas, Algimantas Švegžda, Vaiva Kulbokaitė, Remigijus Blūmas, Aušra Daugirdienė

53.442 **Lower in Contrast, Higher in Numerosity** Quan Lei, Adam Reeves

53.443 **Task classification from eye movement patterns** Joseph MacInnes, Hunt Amelia, Dodd Michael

53.444 **Cultural Analysis of Digital Display Preference** Jennifer F. Schumacher, James M. Hillis, Robert W. Shannon, John F. Van Derlofske, Dave J. Lamb, Art A. Lathrop, James A. Thielen, Brian J. Stankiewicz

53.445 **A novel MDS methodology for studies of interactions between language and color** Ryan Lange, Angela Brown, Delwin Lindsey

53.446 **Hadza color naming and the origins of basic color categories** Delwin Lindsey, Angela Brown, David Brainard, Coren Apicella

53.447 **A Bayesian Approach to Grounding Color Vocabulary** Brian McMahan, Matthew Stone

53.448 **Emotional Mediation of Cross-Modal Associations in Timbre-Color Synesthesia** William Griscom, Stephen Palmer

53.449 **Shape-to-Color Associations in Non-synesthetes: Evidence for Emotional Mediation** Michela Malfatti, Karen B. Schloss, Liliana Albertazzi, Stephen E. Palmer

Motion perception: Biological

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

53.450 **Social interaction recognition: the whole is not greater than the sum of its parts** Stephan de la Rosa, George Fuller, Heinrich Bülthoff

53.451 **Influence of eccentricity on action recognition** Laura Fademrecht, Isabelle Bülthoff, Stephan de la Rosa

53.452 **Neurodynamical model for the multi-stable perception of biological motion.** Leonid Fedorov, Dominik Endres, Joris Vangeneugden, Martin Giese

53.453 **The Influence of (Biological) Form on the Perception of Biological Motion** Maria Florendo, Luke E. Miller, Jennifer Cook, Ayse P. Saygin

53.454 **Rehearsing Biological Motion in Working Memory: An fMRI Study** Zaifeng Gao, Xiqian Lu, Mowei Shen, Rende Shui, Shulin Chen

53.455 **Visual evoked potentials in response to biological and non-biological agents** Burcu A Urgen, Wayne Khoe, Alvin Li, Ayse P Saygin

53.456 **Functional Connectivity of Co-localized Brain Regions during Biological Motion, Face and Social Perception using Partial Correlation Analysis** Samhita Dasgupta, Sarah Tyler, Ramesh Srinivasan, Emily Grossman

53.457 **Using intersubject correlation of fMRI data to explore similarities and differences in action representation of Classical, Romantic and Modern ballet styles** Frank Pollick, Naree Kim, Seon Hee Jang

53.458 **Measuring response saturation in human MT and MST as a function of motion density** Szonya Durant, Michele Furlan

53.459 **rTMS to pSTS alters the ability to perceive walking direction of 3D point light walkers** Nicholas Adam Peatfield, Lorella Battelli

53.460 **Physical Exercise Reduces the Facing-the-Viewer Bias for Biological Motion Stimuli** Adam Heenan, Nikolaus Troje

53.461 **The effect of movement-complexity on perceived audio-visual synchronicity** Ramona Kaiser, Carolina Brum Medeiros, Marcelo M. Wanderley, Marc Schönwiesner

53.462 **Changes in camera elevation dictate perception of point-light walkers' facing direction.** Sophie Kenny, Nikolaus Troje

53.463 **Breaking Bio: Does biological motion have preferential access to awareness?** Luke E. Miller, David Carmel, Ayse P. Saygin

53.464 **Affective Priming by Biological Motion** Edward Nguyen, Wayne Khoe, Ayse P. Saygin

53.465 **Biological movement and the encoding of approach** Christopher Benton, Martin Thirkettle, Nick Scott-Samuel

53.466 **Unconscious Processing of Biological Motion** Ayse P. Saygin, Chen Song, Bianca van Kemenade, Luke E. Miller, Geraint Rees, Bahador Bahrami

53.467 **Fundamental constraints in perceiving socially interactive traits without human form** Steven Thurman, Hongjing Lu

53.468 **Perceived animacy influences other forms of visual processing: Improved sensitivity to the orientations of intentionally moving objects** Benjamin van Buren, Brian Scholl

53.469 **Stick figures and point-light displays: Effects of inversion on the facing-the-viewer bias** Séamas Weech, Nikolaus F Troje

Attention: Spatial selection

Tuesday, May 20, 8:30 am - 12:30 pm

Poster Session, Pavilion

- 53.501 **Spatial Cueing of Infants' Selective Attention, Target Selection and Eye Movements** Audrey Wong Kee You, Scott Adler
- 53.502 **Different spatial attention for different stages of visual processing** Satoshi Shioiri, Hajime Honjo, Kazumichi Matsumiya, Kuriki Ichiro
- 53.503 **Within-participant differences in attention-related shifts in contrast response functions measured using EEG and fMRI** Thomas Sprague, Sirawaj Itthipuripat, John Serences
- 53.504 **New rules for visual attention selection** Mahalakshmi Ramamurthy, Erik Blaser
- 53.505 **Probability Cues Enhance Perceptual Estimations** Syaheed Jabar, Britt Anderson
- 53.506 **Attentional ambiguity and feature binding errors** Julie Golomb
- 53.507 **The change probability effect for high and low spatial frequency items accompanied by a shift in the allocation of attention during encoding** Melissa R. Beck, Amanda E. van Lamsweerde, Rebecca R. Goldstein, Justin M. Ericson
- 53.508 **Measuring the attentional suppressive surround** Sang-Ah Yoo, John K. Tsotsos, Mazyar Fallah
- 53.509 **Spatial Negative Priming: Location or Response?** W. Trammell Neill, Abigail L. Kleinsmith
- 53.510 **The order of attentional shifts determines what visual relations we extract** Audrey L. Michal, Steven L. Franconeri
- 53.511 **Salience Across Spatial Scales** Calden Wloka, Nicholas Frosst, John Tsotsos
- 53.512 **Effects of Feature and Categorical Similarity on the Time Course of Spatial Attention** Jeongmi Lee, Joy Geng
- 53.513 **How implicit spatial cues affect attentional orienting: Timing is everything** Alison Chasteen, Davood Gozli, Katia Martin, Jay Pratt
- 53.514 **Encoding suppression: Linking spatial cueing costs to the attentional blink** Hui Chen, Brad Wyble
- 53.515 **Grouping processes facilitate prioritization of relevant and suppression of irrelevant information: Behavioral and neurophysiological evidence** Tobias Feldmann-Wüstefeld, Anna Schubö
- 53.516 **Effects of visual attention on perceptual and movement performance during saccade preparation** Tobias Moehler, Katja Fiehler
- 53.517 **Holding on to the local: Hand posture biases local processing** David Chan, Davood Gozli, Jay Pratt
- 53.518 **Hand position increases visual processing for task irrelevant flankers.** William Bush, Shaun Vecera

Attention: Features

Tuesday, May 20, 8:30 am - 12:30 pm

Poster Session, Pavilion

- 53.519 **Learning to inhibit a salient non-target feature** Fook Chua
- 53.520 **High-contrast distractors disrupt contrast, but not orientation discrimination** Stuart Jackson, Elizabeth Cutrone, Marisa Carrasco, David J. Heeger

- 53.521 **Feature-specific predictions increase contrast sensitivity** Marius Peelen, Timo Stein
- 53.522 **Evidence of a feature-based attentional template in early visual areas during the absence of visual stimulation** Jocelyn Sy, Frank Tong
- 53.523 **Target Localization Responses Diagnose Emergent Features in Singleton Pop Out** James Pomerantz, Bethany Quiang, Andrew Austin, Kimberley Orsten
- 53.524 **Suppressive effects of feature-based attention to motion and orientation** Yixue Wang, Taosheng Liu
- 53.525 **Rapid feature-selection benefits from feature redundancy** Christine Nothelfer, Steven Franconeri
- 53.526 **Adaptation specific to conjunctions of features** Tatiana Aloï Emmanouil, Anne Treisman
- 53.527 **Can Attention be Guided Efficiently by a Negative Template?** Valerie Beck, Andrew Hollingworth
- 53.528 **Feature-based attention and trans-saccadic correspondence** Cécile Eymond, Patrick Cavanagh, Thérèse Collins
- 53.529 **Where Do People Look at in Crowded Natural Scenes?** Ming Jiang, Juan Xu, Qi Zhao
- 53.530 **Individual Differences In Obligatory Processing of Unexpected, Intentionally-Ignored Events** Abigail Noyce, Robert Sekuler
- 53.531 **Interference from an integral feature in visual statistical summary representations** Jesse Moyer, Timothy Vickery
- 53.532 **Parallel vs. sample-based extraction of summary statistics from feature and conjunctive sets** Mariia Bulatova, Igor Utochkin
- 53.533 **Ensemble Processing of Color and Shape: Beyond Mean Judgments** Danielle Albers, Michael Correll, Michael Gleicher, Steven Franconeri
- Attention: Objects**
- Tuesday, May 20, 8:30 am - 12:30 pm
- Poster Session, Pavilion
- 53.534 **Amodal completion without awareness** San-Yuan Lin, Su-Ling Yeh
- 53.535 **No masked priming of shape in metacontrast and object substitution masking paradigms without attention** Evelina Tapia, Alejandro Lleras, Diane M Beck
- 53.536 **The acquisition of attentional templates for target objects in visual search** Rebecca Nako, Tim J. Smith, Martin Eimer
- 53.537 **Effect of object-substitution masking on the perceptual quality of object representations** Geoffrey W Harrison, Jason Rajsic, Daryl E Wilson
- 53.538 **Familiarity wins over novelty: A persistent attentional bias toward regularities** Ru Qi Yu, Jiaying Zhao
- 53.539 **Object-Based Attention is Modulated by Shifts Across the Meridians** Adam Greenberg, Daniel Hayes, Alexa Roggeveen, Sarah Creighton, Patrick Bennett, Allison Sekuler, Karin Pilz
- 53.540 **Reduced attentional competition between objects that follow real-world regularities** Daniel Kaiser, Timo Stein, Marius V Peelen
- 53.541 **Scene-based information does not disrupt visual object correspondence** Anja Fiedler, Cathleen Moore
- 53.542 **Exploring the Relationship between Object-Based Attention Effects and Object Realism** Nelson Roque, Walter Boot

53.543 **Target Identity Uncertainty and the Stages of Object-Based Attention: A Prioritization Account** Andrew Collegio, Simeon Kakpovi, Alana Whitman, Sarah Shomstein

53.544 **Temporal uncertainty determines the use of object representations in attentional guidance.** Breana Carter, Sarah Shomstein

53.545 **Task-context dependent visual object representation in human parietal cortex** Su Keun Jeong, Yaoda Xu

53.546 **Do self-controlled objects “pop out”? A study of attention** Hideyuki Kobayashi, Takako Yoshida

53.548 **The effect of perceptual narrowing on category-based visual search: an ERP study** Rachel Wu, Jared Band, Rebecca Nako, Gaia Scerif, Richard Aslin

Visual search: Context and memory

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Pavilion

53.549 **A comparison of static and dynamic visual search tasks in eliciting visual working memory guidance of selective attention** Zhan Xu, Jianhua Li

53.550 **Examining the influence of nonpredictive arrow cues and a working memory load on visual search performance** Gerald McDonnell, Michael Dodd

53.551 **Changing how you search alters the influence of memory on attentional allocation and eye movements** Jordan Grubaugh, Mark Mills, Brett Bahle, Edwin Dalmaijer, Stefan Van der Stigchel, Michael Dodd

53.552 **The role of working memory capacity in visual search and search of visual short term memory** Ester Reijnen, Jonas Hoffmann, Jeremy Wolfe

53.553 **Categorical Contextual Cueing in Visual Search** Stephen Walenchok, Michael Hout, Stephen Goldinger

53.554 **Contextual cueing effect without eye movements** Yoko Higuchi, Jun Saiki

53.555 **Search templates can be adapted to the context, but only for unfamiliar targets.** Mary Bravo, Hany Farid

53.556 **Is False Pop Out Really Pop Out? Evidence from RT functions.** Kimberley Orsten, James Pomerantz

Scene perception: Neural mechanisms

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Pavilion

53.557 **Temporal consistency of multi-voxel patterns for repeated scenes** Thomas O'Connell, Emily Ward, Marvin Chun

53.558 **Anterior to posterior parahippocampal organization of scene information** Elissa Aminoff, Michael Tarr

53.559 **Supervoxel parcellation of visual cortex connectivity** Christopher Baldassano, Diane M. Beck, Li Fei-Fei

53.560 **Differential Selectivity for Spatial Frequencies in Anterior and Posterior PPA** Daniel Berman, Dirk B. Walther

53.561 **Categorical judgments of ambiguous scenes are controlled by neural activity in both LOC and PPA** Sean MacEvoy, Drew Linsley

53.562 **TMS to object-selective LO enhances fMR adaptation to scenes in the PPA** Sara Rafique, Lily Solomon-Harris, Jennifer Steeves

53.563 **Mapping natural and texture scene representations across the visual system** Jiye G Kim, Sabine Kastner

53.564 **Functional connectivity between object- and space-encoding brain regions during scene viewing** Drew Linsley, Sean MacEvoy

53.565 **Effect of RMS contrast normalization on the retinotopic processing of spatial frequencies during scene categorization** Stephen Ramanoel, Louise Kauffmann, Nathalie Guyader, Alan Chauvin, Cédric Pichat, Michel Dojat, Carole Peyrin

53.566 **Decoding the spatial scale of information in visual cortex** Luca Vizioli, Lucy Petro, Lars Muckli

53.567 **The Topographic Organization of Scene-Selective Regions in the Human Brain is Closely Linked to the Statistical Properties of the Image** David Watson, Tom Hartley, Timothy Andrews

53.568 **Tracking the dynamic representation of a complex visual scene using Bubbles** Robin Ince, Nicola Van Rijsbergen, Stefano Panzeri, Philippe Schyngs

53.569 **Neural coding of image blur assessed by fMRI** Katherine Tregillus, Lars Strother, Gideon P. Caplovitz, Michael A. Webster

53.570 **Exploring the processing of the shape and material properties of scenes and objects in human visual cortex** Jonathan S. Cant

53.571 **Manual versus automatic segmentation of functional regions of interest: Effects on multi-voxel pattern analysis and repetition suppression** Andrew Serger, Thomas O'Connell, Dirk Walther

53.572 **Decoding culture from the human primary visual cortex** Junpeng Lao, Luca Vizioli, Lars Muckli, Roberto Caldara

Multisensory processing: Neural mechanisms, somatosensory, vestibular

Tuesday, May 20, 8:30 am - 12:30 pm
Poster Session, Pavilion

53.573 **Discrimination of Shapes and Line Orientations on the Tongue** Margaret Vincent, Hao Tang, Zhigang Zhu, Tony Ro

53.574 **Increased Experience with an Unfamiliar Language Decreases Fixations to the Mouth During Encoding** Lauren Mavica, Elan Barenholtz

53.575 **TMS over the right parietal cortex disrupts audiovisual binding in the line motion illusion** Carrie R Bailey, Steven L Prime

53.576 **Contributions of the body and head to perceived vertical: Cross-modal differences** Lindsey Fraser, Bobbak Makooie, Laurence R. Harris

53.577 **Head Tilt Delineates Two Mechanisms of the Rod-and-Frame Illusion** Scott A. Reed, Melissa A. Farley, Paul Dassonville

53.578 **Can't use sight? Don't go right!** Kayla Stone, Claudia Gonzalez

53.579 **Visual-haptic integration for gloss perception** Wendy Adams, Iona Kerrigan, Erich Graf

53.580 **The contribution made by gaze position to the integration between multisensory feedback and self-body sensations** Seiya Kamiya, Takako Yoshida

53.581 **Spatiotopic maps in calcarine sulcus of the congenitally blind** Petra Vetter, Lior Reich, Amir Amedi

53.582 **A neural correlate of intentionality persists in the parietal cortex of a patient without proprioception** Elizabeth Torres, Kyuwan Choi

53.583 **The development of multisensory integration is specific to a neuron's experience** Benjamin Rowland, Ryan Miller, Barry Stein

53.584 **Development of dorsal and ventral stream connectivity: A visuohaptic psychophysiological interaction study** R. Joanne Jao, Karin H. James, Thomas W. James

53.585 **The representation of visual and somatosensory space in the superior colliculus of a human subject without an optic chiasm** David Ress, Michael S. Beauchamp, Chris Purington, Benjamin T. Files, Bosco S. Tjan

53.586 **Visual brain areas predict haptic (and visual) behavioral similarities between novel objects** Haemy Lee, Hans Op de Beeck, Christian Wallraven

53.587 **Long-term reorganization of auditory motion direction encoding as a result of early blindness** Fang Jiang, G.C. Stecker, Ione Fine

53.588 **Frontoparietal connectivity supports dynamic body representation** John Plass, David Brang, Andrew Bryant, Satoru Suzuki, Zach Taich, Vilayanur Ramachandran, Marcia Grabowecky

53.589 **Touching and tracing improve working memory for location and orientation** Stacey Parrott, Mark Huntington, Marcia Grabowecky, Satoru Suzuki

Tuesday Afternoon Talks

3D Perception

Tuesday, May 20, 2:30 - 4:15 pm

Talk Session, Talk Room 1

Moderator: Johannes Burge

54.11, 2:30 pm **3D surface tilt estimation in natural scenes from image cue gradients** Johannes Burge, Brian C. McCann, Wilson S. Geisler

54.12, 2:45 pm **Disparity Preferences in V1 Reflect the Statistics of Disparity in Natural Viewing** William Sprague, Emily Cooper, Jean-Baptiste Durand, Martin Banks

54.13, 3:00 pm **Perceived depth in natural images reflects encoding of low-level depth statistics** Emily A. Cooper, Anthony M. Norcia

54.14, 3:15 pm **Predicting 3D shape perception from shading and texture flows** Steven A. Cholewiak, Benjamin Kunsberg, Steven Zucker, Roland W. Fleming

54.15, 3:30 pm **Differential sensitivity to surface curvature polarity in 3D objects is not modulated by stereo disparity** Filipe Cristino, Lina I. Davitt, Hannah Rettie, Charles Leek

54.16, 3:45 pm **A Model for Stereopsis and Rivalry Based on Orientation Differences** Hugh R. Wilson

54.17, 4:00 pm **Solving stereo transparency with an extended coarse-to-fine disparity energy model** Zhe Li, Ning Qian

Attention: Neural mechanisms and modeling

Tuesday, May 20, 2:30 - 4:15 pm

Talk Session, Talk Room 2

Moderator: John Serences

54.21, 2:30 pm **Adaptive gain control during human perceptual choice** Samuel Cheadle, Valentin Wyart, Konstantinos Tsetos, Nicholas Myers, Vincent de Gardelle, Santiago Herce Castañón, Christopher Summerfield

54.22, 2:45 pm **The phase of intrinsic oscillations modulates feature and space-based visual attention** Javier Garcia, Kimberly Kaye, Dennis Williams, Thomas Sprague, John Serences

54.23, 3:00 pm **Neural mechanisms of object-based attention** Daniel Baldauf, Robert Desimone

54.24, 3:15 pm **Object attention in moderate precision tasks: Mechanisms of the elaborated template model.** Barbara Doshier, Zhong-Lin Lu, Songmei Han, Shiao-Hua Liu

54.25, 3:30 pm **External noise distinguishes mechanisms underlying attention gating in visual short-term memory** Yukai Zhao, Zhong-Lin Lu, Barbara Anne Doshier

54.26, 3:45 pm **LiFE: Linear Fascicle Evaluation a new technology to study visual connectomes** Franco Pestilli, Jason Yeatman, Ariel Rokem, Kendrick Kay, Hiromasa Takemura, Brian Wandell

54.27, 4:00 pm **An Information Theory of Vision: why visual search is log-linear (not just linear).** Alejandro Lleras, Simona Buetti

Scene perception

Tuesday, May 20, 5:15 - 7:15 pm

Talk Session, Talk Room 1

Moderator: Melissa Vo

55.11, 5:15 pm **Local Structure Drives Human Scene Categorization: Converging Evidence from Computational Analysis, Behavior, and Neural Decoding** Heeyoung Choo, Dandan Shen, Dirk Walther

55.12, 5:30 pm **A simple rapid categorization model accounts for variations in behavioral responses across rapid scene categorization tasks** Thomas Serre, Imri Sofer, Sébastien M. Crouzet

55.13, 5:45 pm **Visual And Semantic Representations Of Scenes** Manoj Kumar Kumar, Kara D. Federmeier, Li Fei-Fei, Diane M. Beck

55.14, 6:00 pm **Active visual search boosts memory for objects, but only when making a scene** Emilie L. Josephs, Dejan Draschkow, Jeremy M. Wolfe, Melissa L.-H. Vo

55.15, 6:15 pm **Human estimates of object frequency are frequently over-estimated** Michelle Greene

55.16, 6:30 pm **For familiar landmarks, parahippocampal cortex represents place identity, not just perceptual features** Steven A. Marchette, Lindsay K. Vass, Jack Ryan, Russell A. Epstein

55.17, 6:45 pm **Domain specificity in integration of visual information across time** Bjorn Hubert-Wallander, Geoffrey M. Boynton

55.18, 7:00 pm **Can low-level features explain numerosity tuning, or do interference effects reveal how numerosity is computed?** Ben Harvey, Barrie Klein, Natalia Petridou, Serge Dumoulin

Multisensory processing

Tuesday, May 20, 5:15 - 7:15 pm

Talk Session, Talk Room 2

Moderator: Pascal Mamassian

55.21, 5:15 pm **Cue combination with a new sensory signal: multisensory processing in blind patients with a retinal prosthesis** Sara Garcia, Karin Petrini, Lyndon da Cruz, Gary Rubin, Marko Nardini

55.22, 5:30 pm **Asymmetrical medial geniculate body volume in people with one eye** Stefania S. Moro, Krista R. Kelly, Larissa McKetton, Jennifer K.E. Steeves

55.23, 5:45 pm **Electrocorticographic (ECoG) recordings demonstrate that peripherally presented sounds activate extrastriate visual cortex** David Brang, Vernon L. Towle, Satoru Suzuki, Zhongtian Dai, Steven A. Hillyard, Michael H. Kohrman, James X. Tao, Marcia Grabowecky

55.24, 6:00 pm **Enhanced cortical representation of auditory frequency as a result of early blindness** Elizabeth Huber, Jessica Thomas, Ione Fine

55.25, 6:15 pm **Predicting linear and nonlinear interactions in the temporal profile of the multisensory response** Ryan Miller, Barry Stein, Benjamin Rowland

55.26, 6:30 pm **Cross-modal confidence judgements** Pascal Mamassian, David Alais

55.27, 6:45 pm **Audio-visual delay as a new cue to visual distance** Philip Jaekl, Duje Tadin

55.28, 7:00 pm **What colours a letter? The deep learned structure of synaesthesia in two linguistic groups** Marcus R Watson, Kathleen A Akins, Jan Chromý, John Alderete, Martin Hahn, James T Enns

Tuesday Afternoon Posters

Temporal processing

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Jacaranda Hall

- 56.301 **Dissecting the neural network of duration perception with fMRI** Mingbo Cai, David Eagleman
- 56.302 **Endogenous alpha oscillations modulate the perception of causality** Andre Mascioli Cravo, Karin Moreira Santos, Marcelo Bussotti Reyes, Marcelo Salvador Caetano, Peter Maurice Erna Claessens
- 56.303 **Pupillometry reveals role for norepinephrine in the isolation effect** Taylor R. Hayes, Per B. Sederberg, Brian M. Siefke, Alexander A. Petrov
- 56.304 **Dissociating temporal and spatial integration windows: the case of Vernier Fusion** Jan Drewes, David Melcher
- 56.305 **The Broca-Sulzer effect contributes to visual acuity** Hector Rieiro, Francisco Costela, Oier Dominguez Lopez De Lacalle, Susana Martinez-Conde, Stephen Macknik
- 56.306 **Simple duration detectors for encoding event time** Edward Rowland, Johannes Zanker, Szonya Durant
- 56.307 **A role for local mechanisms in perceived duration of brief visual events** Lee Beattie, William Curran
- 56.308 **Local and global mechanisms mediate perceived duration of brief visual events** William Curran, Christopher P. Benton, Julie M. Harris, Paul B. Hibbard, Lee Beattie
- 56.309 **Direction-contingent duration compression is retinotopic** Kevin G Latimer, William Curran, Christopher P Benton
- 56.310 **Time compressions for dynamic tests following 1st and 2nd order motion adaptation** James Retell, Alan Johnston, Derek Arnold
- 56.311 **Perceived distance and size interact to alter the perception of time** Martin Wiener, James Thompson
- 56.312 **Accounting for subjective time expansion based on a decision, rather than perceptual, mechanism** Rakesh Sengupta, S. Bapiraju, Prajit Basu, David Melcher
- 56.313 **Visually perceived time dilates with flickering in alpha frequency, but not with flickering in other frequency ranges.** Yuki Hashimoto, Yuko Yotsumoto
- 56.314 **Temporal expansion, more information: the role of subjectively distorted time in information accrual** David Melcher, Anuj Shukla, Andreas Wutz
- 56.315 **Does cue processing accelerate the onset of inhibition of return?** Andrew Rodriguez, Chris Tran, Eriko Self
- 56.316 **A temporal advantage for numerically small digits** Yongchun Cai, Shuang-xia Li, Shena Lu
- 56.317 **Where's the time? Temporal recalibration is absent without awareness.** Regan Gallagher, Kielan Yarrow, Derek Arnold
- 56.318 **The temporal decay of unconscious representations in Motion Induced Blindness** Hsin-Mei Sun, Marina Inyutina, Rufin VanRullen, Chien-Te Wu

Perceptual learning: Specificity and transfer

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Jacaranda Hall

- 56.319 **Perceptual learning of detection of band-limited noise patterns** Zahra Hussain, Patrick Bennett
- 56.320 **Is improved contrast sensitivity a natural consequence of visual training?** Aaron Levi, Danielle Shaked, Dujie Tadin, Krystel Huxlin
- 56.321 **Eye and location specificity of perceptual learning of contrast detection** Qinlin Yu, Fang Fang
- 56.322 **The Effect of Priming on Contour Integration Training** Jay Jeschke, Daniel Kurylo
- 56.323 **Motion discrimination learning improves perceptual representation and accelerates sensory evidence accumulation** Ke Jia, Xin Xue, Sheng Li
- 56.324 **The influence of perceptual learning on visual context illusions** Karin Ludwig, Maria Lev, Sharon Gilaie-Dotan, Stephanie Voss, Philipp Sterzer, Uri Polat, Guido Hesselmann
- 56.325 **Learning and transfer of feature-based attentional modulation** Anna Byers, John Serences
- 56.326 **Exogenous attention facilitates perceptual learning transfer within and across visual hemifields** Ian Donovan, Sarit Szpiro, Marisa Carrasco
- 56.327 **Exogenous attention enables visual perceptual learning and task transfer** S.F.A. Szpiro, S. Cohen, M. Carrasco
- 56.328 **Spatial attention generalizes perceptual learning to untrained locations in an acuity task** Cristina Tortarolo, Antoine Barbot, Marisa Carrasco
- 56.329 **Perceptual learning for multiple features: Neural correlates of changes in sensitivity and bias** Michael Wenger, Stephanie Rhoten
- 56.330 **Sensory and expectation cues are fused during perception** Matthew F. Panichello, Nicholas B. Turk-Browne
- 56.331 **Learning of hierarchical temporal structures facilitates the prediction of future events** Rui Wang, Yuan Shen, Peter Tino, Zoe Kourtzi
- 56.332 **Perceived Stability of Composite Material Objects** Julian Lupo, Michael Barnett-Cowan
- 56.333 **Age-Related Differential Transfer of Improved Contrast Sensitivity with Perceptual Learning** Denton J. DeLoss, Takeo Watanabe, George J. Andersen
- 56.334 **Training as Part of a Word Game Increases Reading Speed in Peripheral Vision** Yingchen He, Gordon Legge
- 56.335 **Perceptual learning improves near vision in pilots with eye aging.** Anna Sterkin, Oren Yehezkel, Maria Lev, Ravid Doron, Moshe Fried, Yuval Levy, Liora Levian, Reuven Pokroy, Barak Gordon, Uri Polat
- 56.336 **"Edward Rake-Hands" Part II: Does embodiment of a real tool occur via virtual tool interaction?** Kimberley Jovanov, Paul Clifton, Ali Mazalek, Michael Nitsche, Timothy N. Welsh

56.337 **Learning to Recognize Faces by How They Talk** Dominique C. Simmons, Josh J. Dorsi, James W. Dias, Theresa C. Cook, Lawrence D. Rosenblum

56.338 **Individual differences in sleep-dependent perceptual learning: Habitual vs. non-habitual nappers** Elizabeth McDevitt, Lauren Whitehurst, Katherine Duggan, Sara Mednick

Spatial vision: Models

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Banyan Breezeway

56.401 **Does the size really determine the size congruency effect? The role of height in the perception of quantity** Liat Goldfarb

56.402 **Optimizing the estimation of differences between psychometric functions** Nicolaas Prins

56.403 **A model of symbol discrimination in vibration blur** Albert Ahumada, Bernard Adelstein, Andrew Watson, Brent Beutter, Giovanna Guerara-Flores

56.404 **Aggregating multiple judgments in a mixed-strengths signal detection task** Mordechai Z. Juni, Miguel P. Eckstein

56.405 **A psychophysically derived model of signal combination predicts neural responses in two stimulus domains** Daniel H. Baker

56.406 **Evidence for aspect-ratio processing independent of the linear dimensions of a shape: A channel-based system** David Badcock, Sarah Morgan, Edwin Dickinson

56.407 **Using maximum likelihood difference scaling to measure visual discomfort** Paul Hibbard, Alasdair Clarke, Louise O'Hare

56.408 **Stable individual distortions in the perceived locations of static stimuli** Anna Kosovicheva, David Whitney

56.409 **Not all Distortions are Created Equally: The Visibility of Image Artifacts with Application to Image Quality** Elyse H. Norton, Michael S. Landy, Eero P. Simoncelli

56.410 **A computational model of the Münsterberg (Café wall) illusion and related phenomena** Dejan Todorović

56.411 **Contrast gain control in plaid pattern detection** Pi-Chun Huang, Yu-Shen Huang, Chien-Chung Chen

56.412 **Serial Dependence of Position Perception** Alina Liberman, Anna Kosovicheva, David Whitney

56.413 **A neural model of distance-dependent percept of object size constancy** Jiehui Qian, Arash Yazdanbakhsh

56.414 **Optimal retinal population coding predicts inhomogeneous light adaptation and contrast sensitivity across the visual field** Eizaburo Doi, Michael Lewicki

56.415 **A Unified Computational Model of Primary Visual Cortex: Consolidation of the Scattered Literature on Simple and Complex Cells** Tadamasawa Sawada, Alexander A. Petrov

Visual search: Eye movements

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Banyan Breezeway

56.416 **Searching for overlapping objects in depth: Depth speeds search, but does not improve response accuracy** Hayward J. Godwin, Tamaryn Menneer, Simon P. Liversedge, Kyle R. Cave, Nick S. Holliman, Nick Donnelly

56.417 **You don't know where your eyes have been and that could be problem.** Jeremy Wolfe, Trafton Drew, Melissa Vo

56.418 **Comparing search strategy in breast tomosynthesis and 2D mammogram: an eye tracking study** Avi Aizenman, Trafton Drew, Dianne Georgian-Smith, Jeremy M. Wolfe

56.419 **Visual search and the power spectra of radiological scans** Elyse Kompaniez, Craig K. Abbey, John M. Boone, Michael A. Webster

56.420 **Infant and Adult Localization of a Conjunction Target: An Eye Movement Study** Scott Adler, Christina Fuda, Audrey Wong Kee You

56.421 **Immediate Feedback During Multiple-Target Visual Search Improves Accuracy** Nada Attar, Chia-Chien Wu, Marc Pomplun

56.422 **Revealing the dynamics of visual masking using a speeded saccadic choice task** Sébastien M. Crouzet, Simon Hviid Del Pin, Morten Overgaard, Niko A. Busch

56.423 **Efficient saccade planning requires time and clear choices.** Saeideh Ghahghaei, Preeti Verghese

56.424 **First saccadic eye movement reveals persistent attentional guidance by implicit learning** Bo-Yeong Won, Khen Swallow, Yuhong Jiang

56.425 **Spatial dependency of objects, but not scene gist contributes semantic guidance of attention** Chia-Chien Wu, Hsueh-Cheng Wang, Marc Pomplun

56.426 **The role of context in visual search in immersive environments.** M. Pilar Aivar, Chia-Ling Li, Dmitry Kit, Matthew H. Tong, Mary M. Hayhoe

56.427 **Visual similarity is stronger than semantic similarity in guiding visual search for numbers** Tamaryn Menneer, Hayward, J. Godwin, Michael, C. Hout

56.428 **Using Eye Movements to Investigate Individual Differences in Linguistically Mediated Visual Search** Sankalita Mandal, Tandra Ghose, Yannik T. H. Schelske, Eric Chiu, Michael J. Spivey

56.429 **Disruption of spatial but not of temporal object continuity impairs transsaccadic learning: Evidence from visual search** Katharina Weiß, Werner X. Schneider, Arvid Herwig

56.430 **The roles of cuing and visual working memory capacity in dynamic oculomotor selection** Matthew Weaver, Davide Paoletti, Wieske van Zoest

56.431 **Can eye movements anticipate the laterality of an unpredictable stimulus?** Simon Thorpe, Magaly Alonzo, Jacob Martin

56.432 **How does visual search behaviour adapt when partners have a response bias?** Charlotte A Riggs, Hayward J Godwin, Tamaryn Menneer, Simon P Liversedge, Nick Donnelly

56.433 **When caused by an eye movement inhibition of return's effect is post-perceptual: Evidence from SAT functions** Ralph S. Redden, Matthew D. Hilchey, Raymond M. Klein

Eye movements: Perception and neural mechanisms

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Banyan Breezeway

56.434 **Effects of spatial frequency filtering in natural scenes: Evidence from eye movements and computational modeling** Anke Cajar, Jochen Laubrock, Ralf Engbert

56.435 **Characteristics of ambient and focal processing during the visual exploration of dynamic stimuli** Sebastian Pannasch

56.436 **Pupil size is larger when viewing indoor scenes** Chencan Qian, Zuxiang Liu

56.437 **Gaze Bias in Perception for Canine and Human Faces** Bruce Bridgeman, Cory Little

56.438 **The influence of crowding on eye movements: A preliminary study** Senay Aydin, Mofiyinfoluwa Adeleye, John Siderov, Akash S. Chima, Harold E. Bedell, Sarah J. Waugh, Josselin Gautier

56.439 **Caucasian and Asian eye movement patterns in face recognition: A computational exploration using hidden Markov models** Tim Chuk, A. Xiao Luo, Kate Crookes, William G. Hayward, Antoni B. Chan, Janet Hsiao

56.440 **A Visual Field Asymmetry in Pre-saccadic Fixation Durations** Harold Greene, James Brown, Barry Dauphin

56.441 **Saccade planning evokes topographically specific activity in the dorsal and ventral streams** Clayton Curtis, Golbarg Saber, Franco Pestilli

56.442 **An image-based population model of human saccade programming in the Superior Colliculus** Hossein Adeli, Soazig Casteau, Françoise Vitu, Gregory Zelinsky

56.443 **Steady-state sensory-evoked responses are enhanced prior to oculomotor execution** Kimberly E Kaye, Thomas C Sprague, Sirawaj Itthipuripat, Elena C Prado, John T Serences

56.444 **Comparative connectivity of frontal eye field and striatum between humans and macaques** Michelle Young, Bas Neggers, Bram Zandbelt, Jeffrey Schall

56.445 **Direction specific signals for saccadic eye movements: Effects of traumatic brain injury** Christopher Tyler, Lora Likova, Spero Nicholas

56.446 **Deviation in saccade trajectories suggests asymmetric representation of the upper and lower visual fields in the superior colliculus** Zhiguo Wang

Eye movements: Perisaccadic perception

Tuesday, May 20, 2:45 - 6:45 pm

Poster Session, Banyan Breezeway

56.447 **Spatiotopic visual representations and oculomotor plasticity** Thérèse Collins

56.448 **The infinite regression illusion reveals dissociation between perception and action** Matteo Lisi, Patrick Cavanagh

56.449 **Trans-saccadic integration of spatial frequency information in an fMRIa paradigm.** B.-R. Baltaretu, B. T. Dunkley, J. D. Crawford

56.450 **Visual and spatial determinants of saccadic suppression of displacement** Heiner Deubel, David Aagten-Murphy, Bruce Bridgeman

56.451 **Unmasking saccadic masking: an objective measure to constrain the possible mechanisms of saccadic masking** Marianne Duyck, Thérèse Collins, Mark Wexler

56.452 **Feature remapping precedes saccadic eye movements without attention** Dongjun He, Fang Fang

56.453 **Probing the dynamics of perisaccadic perception with EEG** Lyudmyla Kovalenko, Niko Busch

56.454 **rTMS Over Human Early Visual Cortex Degrades Low Level Visual Feature Memory in the Remapped, Not Perceived, Visual Field During a Transsaccadic Integration Task** Pankhuri Malik, Joost Dessing, Douglas Crawford

56.455 **Perceptual Consequences of Delaying the Post-saccadic Target** Brent Parsons, Richard Ivry

56.456 **Remapped and Captured Pre-Saccadic Attention Produces Perceptual Facilitation at Non-target Locations** Michael Puntiroli, Dirk Kerzel, Sabine Born

56.457 **Sensitivity to spatiotopic location in the human visual system** Yuval Porat, Tanya Orlov, Ayelet Mckyton, Ehud Zohary

56.458 **The role of visual stability on the representation of saccade target object** Caglar Tas, Cathleen Moore, Andrew Hollingworth

56.459 **Similar effects of saccades on auditory and visual localization suggest common spatial map** Hannah Krüger, Therese Collins, Patrick Cavanagh

56.460 **The intention to make a saccade distorts the timing of a Go/No-go signal presented at fixation** Yoshiko Yabe, Melvyn Goodale

Binocular Vision: Rivalry, competition and suppression

Tuesday, May 20, 2:45 - 6:45 pm

Poster Session, Pavilion

56.501 **Deficits in feature counting in amblyopes under binocular viewing** Xin Jie Lai, Chuan Hou

56.502 **Binocular rivalry using luminance- and contrast-modulated stimuli** Jan Skerswetat, Monika A. Formankiewicz, Sarah J. Waugh

56.503 **The Role of Monocular Dominance in Rivalry Onset Bias** Jody Stanley, Jason Forte, Alexander Maier, Olivia Carter

56.504 **The effects of inter-ocular contrast differences on binocular rivalry in younger and older observers** Amanda M. Beers, Allison B. Sekuler, Patrick J. Bennett

56.505 **Invisible Chromatic Gratings Can Induce Orientation-Specific Adaptation and Binocular Rivalry** Jinyou Zou, Sheng He, Peng Zhang

56.506 **Neural signature of the initiation of binocular rivalry** Sucharit Katyal, Shinho Cho, Stephen Engel, Sheng He

56.507 **When our brain is convinced: EEG correlates of visual ambiguity** Jürgen Kornmeier, Rike Wörner, Michael Bach

56.508 **Afterimage duration reflects how deeply invisible stimuli were suppressed** Motomi Shimizu, Eiji Kimura

56.509 **The effect of contextual depth on binocular rivalry** Chun Siong Soon, Mei Ying Ng, Po-Jang Hsieh

56.510 **Special role of parietal cortex in binocular rivalry demonstrated by fMRI comparison with stimulus rivalry** Janine Mendola, Athena Buckthought, Jeremy Fesi

56.511 **Global brain networks contrasted by stability of Binocular Rivalry** Masanori Shimono, Kazuhisa Kazuhisa

56.512 **Statistical learning facilitates the identification of targets in perceptual competition with learned images** Rachel Denison, Jacob Sheynin, Michael Silver

56.513 **Comparing the influences of emotion versus identity on face perception during binocular rivalry in human observers** Nour Malek, Andy Gao, Daniel Messinger, Karim Tabbane, Ridha Joobar, Julio Martinez-Trujillo

56.514 **Unconscious Syntactic Processing in the Absence of Semantics** Shao-Min Hung, Po-Jang Hsieh

56.515 **Unconscious semantic processing? No evidence for extracting the semantics of words during interocular suppression.** Pieter Moors, Tom Heyman

56.516 **Hearing melody modulates perceptual dominance of musical scores during binocular rivalry** Minyoung Lee, Sujin Kim, Chai-Youn Kim

56.517 **Dominance of apparent motion in binocular rivalry is modulated by crossmodal synchrony** Daniela Etchegaray, Laura Ortega, Jin Hak Kim, German Palafox, Emmanuel Guzman-Martinez

56.518 **Feature-selectivity is common in perceptual suppression phenomena** Mark Vergeer, Raymond van Ee, Johan Wagemans

56.519 **Meaningful actions and interactions receive priority in conscious perception** Junzhu Su, Jeroen van Boxtel, Hongjing Lu

56.520 **Perception during binocular rivalry is biased by the content of visual working memory.** Surya Gayet, Jan Brascamp, Stefan Van der Stigchel, Chris Paffen

56.521 **Evidence for solid perception of binocular rivalry under top-down influences of visual working memory** Youngseon Shin, Joo-Seok Hyun

56.522 **What determines the influence of attention on binocular rivalry?** Kevin C Dieter, Michael D Melnick, Duje Tadin

56.523 **Effect of attention on the initiation of binocular rivalry** Yaelan Jung, Min-Suk Kang, Sang Chul Chong

Face perception: Experience, learning and expertise 2

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Pavilion

56.524 **McGurk effect appears after learning syllables with non-facial motions.** Miyuki G. Kamachi, Kazuki Ohkubo

56.525 **Decoupling perceptual and response biases in a sequential face judgment task** Teresa Pegors, Peter Bryan, Marcelo Mattar, Russell Epstein

56.526 **Effects of Exposure Frequency and Pose Variation on Learning 3-D Faces: A Comparison between Viewpoint Interpolation and Extrapolation** Gary C.-W. Shyi, Julia W.-J. Lin

56.527 **Face, the final frontier: An ERP study probing processing of human and alien faces in Trekkies and non-Trekkies** Nicole Sugden, Lan (Mary) Wei, Andrea Kusec, Margaret Moulson

56.528 **Face drawing experience is associated with better face recognition performance and reduced left-side bias in face perception** Bruno Galmar, Harry Chung, Janet Hui-wen Hsiao

56.529 **On the other side of the fence: The effects of social categorisation and spatial arrangement on memory for own-race and other-race faces.** Nadine Kloth, Susannah Shields, Gillian Rhodes

56.530 **Face Race Affects Various Types of Face Processing, but Affects Them Differently** Mintao Zhao, Isabelle Bülthoff

56.531 **They all look different to me: Within-person variability affects identity perception for other-race faces more than own-race faces** Xiaomei Zhou, Sarah Laurence, Catherine Mondloch

56.532 **Evidence for a Perceptual-to-Social Transition in Infant Categorization of Other-Race Faces** Paul C. Quinn, Kang Lee, Olivier Pascalis, James W. Tanaka

56.533 **The Effect of Early Visual Deprivation on the Development of Judgments of Attractiveness** Larissa Vingilis-Jaremko, Daphne Maurer

56.534 **No country for old men: Mental representations of age reveal two categories (young and old) in young observers, but three (young, middle aged and old) in old observers.** Nicola J. van Rijsbergen, Katarzyna Jaworska, Guillaume A. Rousselet, Philippe G. Schyns

56.535 **Classification images characterize age-related deficits in face discrimination** Sarah E. Creighton, Patrick J. Bennett, Allison B. Sekuler

56.536 **The Influence of Face Processing Biases on Eye Gaze Following and Object Processing During Infancy** Charisse B. Pickron, Eswen Fava, Lisa S. Scott

56.537 **Betty White versus Scarlett Johansson: Examining Consensus in Attractiveness Judgments for Young and Older Adult Faces** Lindsey Short, Harmonie Chan, Anne Hackland, Catherine Mondloch

Face perception: Social cognition

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Pavilion

56.538 **Rapid spatial perspective taking for obstructed views** Lewis Baker, Daniel Levin

56.539 **Unconscious Processing of Direct Gaze: fMRI Evidence** Lan Wang, Zhentao Zuo, Peng Zhang, Sheng He

56.540 **Join my attention by looking at my back: The back of head orientation can serve as both supraliminal and subliminal orienting cues** An-Yi Chang, Su-Ling Yeh

56.541 **What are you looking at?: The acuity of joint attention** Tao Gao, Joshua Tenenbaum, Nancy Kanwisher

56.542 **Unconscious processing of eye gaze direction in the human brain** Marcus Rothkirch, Apoorva Rajiv Madipakkam, Philipp Sterzer

56.543 **The Opioid System Promotes Gaze to the Eyes** Olga Chelnokova, Bruno Laeng, Jeppe Riegels, Guro Løseth, Marie Eikemo, Hedda Maurud, Siri Leknes

56.544 **Sex Differences in the Social Evaluation of Faces** Ashley Unger, Alexander Todorov, Virginia Falvello, K. Suzanne Scherf

56.545 **Are first impressions the same for male and female faces?** Clare Sutherland, Julian Oldmeadow, Andrew Young

56.546 **The other-race effect of face processing: Upper and lower parts play different roles** Yu-Hao Sun, Zhe Wang, Paul Quinn, Xiaoyang Yu, Jim Tanaka, Olivier Pascalis, Kang Lee

56.547 **Testing the Effects of Race on the Recognition of Disguised Faces** Jessie Peissig, Colleen Dillon, Charles Saavedra, Cindy Bukach

56.548 **Impact of Prejudice on Ethnic Ingroup and Outgroup Mental Representations** Olivier Paquin, Daniel Fiset, Geneviève Forest, Mélina Jalbert, Caroline Blais

56.549 **The time course of visual information extraction for identifying and categorizing same and other-race faces in Caucasian observers** Sandra Lafortune, Caroline Blais, Karolann Robinson, Jessica Royer, Justin Duncan, Jessica Tardif, Daniel Fiset

56.550 **Judgments of Personality Traits from Real World Face Images** Samuel Anthony, Walter Scheirer, Ken Nakayama

56.551 **On the Modulation of Social Inference from Faces across Viewing Distance** Daniel Gill, Rachael Jack, Philippe Schyns

56.552 **Effects of bowing on perception of attractiveness** Jun Kawahara, Takayuki Osugi

56.553 **Hot or Not? Perceived Attractiveness Activates Reward Processes Within Medial-Frontal Cortex** Olav Krigolson, Scott Whitaker, Laura MacKenzie, Cameron Hassall

56.554 **A Perceptual Space for Describing Human Bodies** Matthew Q. Hill, Carina A. Hahn, Alice J. O'Toole

56.555 **Pupil constriction during visual preference decision** Hsin-I Liao, Shinsuke Shimojo, Makio Kashino

56.556 **The influence of pupil alignment on the address of spectators to portraits painted by Edouard Manet.** Nick Donnelly, Beth Harland, Simon Liversedge

Object recognition: Features and parts

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Pavilion

56.557 **The role of spatial frequencies in expert object recognition** Simen Hagen, Quoc C. Vuong, Lisa S. Scott, Tim Curran, James Tanaka

56.558 **Intrinsic versus contextual features in object recognition** Derrick Schlangen, Elan Barenholtz

56.559 **Object interpretation: extending and validating object recognition** Guy Ben-Yosef, Liav Assif, Danny Harari, Ethan Fetaya, Shimon Ullman

56.560 **Statistics of three-dimensional objects and object representation** Jin Qi, Zhiyong Yang

56.561 **Greater Sensitivity to Nonaccidental than Metric Shape Properties in Preschool Children** Sarah B. Herald, Manan P. Shah, Ori Amir, Irving Biederman, Toby Mintz

56.562 **Object gist features capture the structure of neural responses to objects** Talia Konkle, Alfonso Caramazza

56.563 **Systematic eye movements during recognition of emerging images** Barbara Nordhjem, Constanza I. Kurman Petrozzelli, Nicolás Gravel, Remco Renken, Frans W. Cornelissen

56.564 **The temporal dynamics of 3D object recognition for mono- and stereo visual displays: An ERP study** Alan Pegna, Mark Roberts, Charles Leek

56.565 **Task-Dependent Reliance on Image Fragments in Humans** W. Drew Bromfield, Thomas James

56.566 **Evidence for Feature Integration in the Fusiform Face Area** Maxim Bushmakin, Thomas James

56.567 **Dorsal Stream Contribution to Perceiving the Structure of Objects** Valentinos Zachariou, Nikas V. Christine, Leslie G. Ungerleider

56.568 **Development of Sensitivity to 2D and 3D Information: Infants' Haptic Exploration of Pictures, Objects and Surfaces** Hope Rainey, Sarah Shuwairi

56.569 **Effects of delay and distractors in temporal search on clips of fire** Fintan Nagle, Alan Johnston, Peter McOwan

56.570 **Object location biases shape and color judgments** Colin Kupitz, Carina Thiemann, Julie Golomb

56.571 **Feature binding reveals the limit of unconscious visual processing** Zhicheng Lin, Scott Murray

Object recognition: Mechanisms and models

Tuesday, May 20, 2:45 - 6:45 pm
Poster Session, Pavilion

56.572 **Real-time fMRI search for the visual components of object perception** Daniel Leeds, John Pyles, Michael Tarr

56.573 **Neural coding of point-light dynamic objects** John A. Pyles, Michael J. Tarr

56.574 **The lateral occipital complex (LOC) shows viewpoint dependence in recognizing novel three-dimensional objects** Ying Yang, Carol A. Jew, Robert E. Kass, Michael J. Tarr

56.575 **Viewpoint invariant object recognition: Spatiotemporal information during unsupervised learning enhances generalization** Moqian Tian, Kalanit Grill-Spector

56.577 **Level of discrimination as an organizing principle in the human ventral occipito-temporal cortex for object recognition** Alan C.-N. Wong, Yetta Kwailing Wong

56.578 **Decoding visual object representation in human parietal cortex** Maryam Vaziri Pashkam, Yaoda Xu

56.579 **Hands in motion: Characterization of upper-limb selective regions in the occipito-temporal cortex.** Tanya Orlov, Yuval Porat, Tamar Makin, Ehud Zohary

56.580 **Spatial attention and task relevance modulate neural responses to illusory contours at early and later stages respectively** Xiang Wu, Liang Zhou, Cheng Qian, Lingyu Gan, Daren Zhang

56.581 **Misbinding of color and motion in human early visual cortex: an event-related potential study** Yanyu Zhang, Xilin Zhang, Fang Fang

56.582 **Edge co-occurrences are sufficient to categorize natural versus animal images** Laurent U Perrinet, James A Bednar

56.583 **The bottleneck in human letter recognition: A computational model** Avi Ziskind, Olivier Hénaff, Yann LeCun, Denis Pelli

56.584 **Event-related potentials show that semantic relations between objects are computed even under change blindness** Felix Ball, Niko Busch

56.585 **Right Hemisphere Dominance in Nonconscious Processing** Jing Chen, Janet Hsiao

56.586 **Repetition probability effects depend on prior experiences** Mareike Grotheer, Gyula Kovács

Wednesday Morning Talks

Color and light: Surfaces and materials

Wednesday, May 21, 8:15 - 9:45 am

Talk Session, Talk Room 1

Moderator: Bart Anderson

61.11, 8:15 **The Perception of Surface Material from Disparity and Focus Cues** Martin Banks, Abdullah Bulbul, Rachel Albert, Rahul Narain, James O'Brien, Gregory Ward

61.12, 8:30 am **Looking against the light: how perception of translucency depends on lighting direction and phase function** Bei Xiao, Bruce Walter, Ioannis Gkioukelas, Todd Zickler, Edward Adelson, Kavita Bala

61.13, 8:45 am **The Dark Secrets of Dirty Concavities** Roland Fleming, Steven Cholewiak

61.14, 9:00 am **Perception of specular materials coupled to perceived 3-D shape** Phillip Marlow, Dejan Todorović, Barton Anderson

61.15, 9:15 am **Estimation of angular velocity of objects differing in material is inconsistent** Gizem Kucukoglu, Laurence T Maloney

61.16, 9:30 am **Complementary development of material perception and image discrimination in infants** Isamu Motoyoshi, Jiale Yang, So Kanazawa, Masami K. Yamaguchi

Motion Perception: Biological, adaptation and higher order

Wednesday, May 21, 10:45 am - 12:30 pm

Talk Session, Talk Room 1

Moderator: Derek Arnold

62.11, 10:45 am **Ventral "form" visual pathway and the EBA are not critical for biological motion perception: evidence from patients and a model suggestion** Sharon Gilaie-Dotan

62.12, 11:00 am **Shifty Shades of Gray: Perceiving Motion from Deletion in the Shifty Shade Illusion** Karen B Schloss, Methma Udawatta

62.13, 11:15 am **The illusory brightening MAE separates low-level motion models.** Alan Johnston, Rupal Shah, Peter Scarfe

62.14, 11:30 am **What determines the adaptation rate in the visual motion aftereffect?** Loes van Dam, Marc Ernst

62.15, 11:45 am **Motion-dependent filling-in at the blind spot** Gerrit Maus, David Whitney

62.16, 12:00 pm **A squishiness visual aftereffect - Not causality adaptation** Derek Arnold, Kirstie Petrie, Regan Gallagher, Kielan Yarrow

62.17, 12:15 pm **Apparent speed of a rotating disk varies with texture density** Stuart Anstis, Alan Ho

Individual differences

Wednesday, May 21, 8:15 - 9:45 am

Talk Session, Talk Room 2

Moderator: Jeremy Wilmer

61.21, 8:15 **Behavioral face recognition performance correlates with an electrophysiological index of individual face discrimination obtained by fast periodic oddball stimulation** Buyun Xu, James Tanaka, Bruno Rossion, Joan Liu-Shuang

61.22, 8:30 am **Independent ensemble processing mechanisms for high-level and low-level perceptual features** Jason Haberman, Timothy F. Brady, George A. Alvarez

61.23, 8:45 am **No action video game training effects for multiple object tracking or mental rotation** Anika Guha, Amyeo Jereen, Joseph DeGutis, Jeremy Wilmer

61.24, 9:00 am **Global Motion, Mathematics and Movement: Dorsal Stream Sensitivity Relates to Children's Individual Differences in Cognitive Abilities and Regional Brain Development** Janette Atkinson, Oliver Braddick, John Wattam-Bell, Natacha Akshoomoff, Erik Newman, Holly Girard, Anders Dale, Terry Jernigan

61.25, 9:15 am **Peak frequency of induced gamma-band response to simple stimulus predicts individual switch rate for perceptual rivalry tasks.** Jeremy Fesi, Janine Mendola

61.26, 9:30 am **Individual Differences in Priors and Sensory Noise Explain Rates of McGurk Fusion Perception** John Magnotti, Michael Beauchamp

Attention: Temporal

Wednesday, May 21, 10:45 am - 12:30 pm

Talk Session, Talk Room 2

Moderator: Trafton Drew

62.21, **A magnocellular contribution to conscious object perception via temporal object segmentation** Stephanie C. Goodhew, Hannah L. Boal, Mark Edwards

62.22, **No action video game training effects for flicker change detection** Amyeo Jereen, Anika Guha, Joseph DeGutis, Jeremy Wilmer

62.23, **Entraining or Awakening: Perceptual Consequences of Visual Stimulation** Jess R. Kerlin, Jane E. Raymond, Simon Hanslmayr, Kimron L. Shapiro

62.24, **Visual extinction in Parkinson patients** Sara Agosta, Raffaella Di Giacomo, Lorella Battelli

62.25, **Re-examining temporal selection errors during the attentional blink** Patrick T. Goodbourn, Paolo Martini, Michael Barnett-Cowan, Irina M. Harris, Evan J. Livesey, Alex O. Holcombe

62.26, **Shuffling your way out of change blindness** Trafton Drew, Jeremy M. Wolfe

62.27, **Pure Irrelevance Induced 'Blindness'** Yaffa Yeshurun, Roy Shoval, Baruch Eitam

Wednesday Morning Posters

Perception and action: Locomotion, wayfinding, space

Wednesday, May 21, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 63.301 **Effects of discrepant optic flow during walking on the perceived visual and proprioceptive straight ahead in egocentric space** Jing Chen, Kang He, KunLin Wei, Li Li
- 63.302 **The structure of spatial knowledge: Do humans learn the geometry, topology, or stable properties of the environment?** Jonathan Ericson, William Warren
- 63.303 **Effect of spatial or sequential auditory secondary task on spatial navigation** Wendy Baccus, Sarah Dziura, Jacob Bevitt, James Thompson
- 63.304 **Effect of attentional load on visual control of steering toward a goal** Rongrong Chen, Li Li
- 63.305 **The visual influence on path reproduction in darkness is stronger during childhood** Karin Petrini, Andrea Caradonna, Celia Foster, Neil Burgess, Marko Nardini
- 63.306 **Event file activation interferes allocation of visual attention during motor movement** Kazuhiko Yokosawa, Marie Shoda
- 63.307 **A data-driven approach to learning strategies for the visual control of navigation.** Youssef Barhomi, Abigail Yanke, Stephane Bonneaud, William Warren, Thomas Serre
- 63.308 **Invertedvection as a function ofvection strength induced by background motion** Yasuhiko Saito, Kenzo Sakurai
- 63.309 **Decoupling the Biomechanics of Locomotion and the Direction of Spatial Updating During Blind-Walking Tasks** Adam J. Barnas, Benjamin R. Kunz
- 63.310 **Intercepting a moving target in fog: On-line or model-based control?** Huaiyong Zhao, William Warren
- 63.311 **Memorizing slope but not elevation facilitates navigation in a virtual environment** Hiroyuki Tsuda, Jun Saiki
- 63.312 **Visual coupling to multiple neighbors in a crowd influences walking speed and direction** Kevin W. Rio, William H. Warren, Jr.
- 63.313 **Visual control strategies for stepping over obstacles** Melissa Parade, Brett Fajen
- 63.314 **The relationship between low-level visual tasks and steering control** Bobby Nguyen, Rui Ni
- 63.315 **Navigation patterns and spatial perception with and without vision using assistive technology for the blind** Shachar Maidenbaum, Daniel-Robert Chebat, Shelly Levy-Tzedek, Amir Amedi
- 63.316 **Interactions of Hand And Gait Kinematics** Natalie de Bruin, Jason Flindall, Lesley Brown, Claudia Gonzalez
- 63.317 **Speed judgments of background motion and illusion of self-motion when viewing sinusoidal visual stimuli along fore-and-aft axis with different frequencies and velocities** Daniel Chen, Richard So
- 63.318 **Do Geographical Slants Feel Steeper Than They Look?** Alen Hajnal, Jeffrey Wagman, David Bunch, Jonathan Doyon
- 63.319 **The Effects of Stress on Distance Perception** Monica Rosen, Joanna Lewis, Daniel McConnell, Mark Neider

Object recognition: General

Wednesday, May 21, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 63.321 **Ideal Observer Analysis of Fused Multispectral Imagery** Jennifer L. Bittner, M. Trent Schill, Leslie M. Blaha, Joseph W. Houpt
- 63.322 **Measuring image distortions using an Iterative Amsler Grid (IAG) in patients with age-related macular degeneration** Inci Ayhan, Edward Doyle, Johannes Zanker
- 63.323 **Intuitive statistics from graphical representations of data** Sarah S. Pak, J. Benjamin Hutchinson, Nicholas B. Turk-Browne
- 63.324 **Parallel processing of multiple object identities from an ambiguous image: evidence from negative priming in a lexical decision task.** Elan Barenholtz, Mohammed Islam
- 63.325 **Armored Vehicle Recognition Training Using Game-Like Feedback** Dustin Smith, Lindsey Davies, Evan Palmer, Joseph Keebler
- 63.326 **Action Video Game Exposure Modulates Spatial Frequency Tuning for Emotional Objects** Laurent Caplette, Greg L. West, Bruno Wicker, Marie Gomot, Frédéric Gosselin
- 63.327 **Discriminating between different targets during a single trial using RSVP and EEG** Melissa A. Smith, Eric J. Blumberg, Matthew S. Peterson
- 63.328 **The Duration of Pleasure In the Experience of Beauty** Lauren Vale, Denis G. Pelli
- 63.329 **Mirror-image confusion in object-selective cortex: Are all reflections alike?** Miles Hatfield, Michael McCloskey, Soojin Park
- 63.330 **Dynamic Perception: Synergy between Grouping, Retinotopic Masking, and Non-retinotopic Feature Attribution** Haluk Ogmen, Michael Herzog, Babak Noory

Visual memory: Capacity and resolution

Wednesday, May 21, 8:30 am - 12:30 pm
Poster Session, Jacaranda Hall

- 63.331 **A measure of working memory capacity using a 3D videogame.** Guillaume Doucet, Julio Martinez-Trujillo
- 63.332 **Estimating Transsaccadic Memory Capacity for Visual Search** Nicholas Kleene, Melchi Michel
- 63.333 **Dynamic reallocation of resources in visual short-term memory** Summer Sheremata, Sarah Shomstein
- 63.334 **Visual working memory represents information less precisely than iconic memory without necessarily trading off the precision for a larger capacity** Daegy Kim, Joo-seok Hyun
- 63.335 **Attentional Priority Determines Working Memory Precision** Zuzanna Klyszejko, Masih Rahmati, Clayton E Curtis
- 63.336 **Training on orientation recall improves the precision of visual short-term memory under high and low levels of memory masking** Alexander A. Petrov, Nicholas M. Van Horn
- 63.337 **Testing enhances the probability but not the precision of memory recall** David Sutterer, Edward Awh
- 63.338 **Both variations in perceptual sensitivity and decisional response bias contribute to visual working memory performance** Young Eun Park, Rosanne Rademaker, Frank Tong

- 63.339 **Moved here and forgot there: Saccades deteriorate visual short-term memory for non-target locations** Martin Rolfs, Sven Ohl
- 63.340 **Recall and Recognition Effects on Retro-Cue Benefit** Filiz Gozenman, Ryan T. Tanoue, Terina Metoyer, Marian E. Berryhill
- 63.341 **The effects of spatial proximity and colour similarity on competition between targets and distractors on visual working memory.** Fiona McNab, Jumana Ahmad, Dipesh Mistry, Anna Nobre, Kimron Shapiro
- 63.342 **Mechanisms of distractor interference in visual working memory** Kimron Shapiro, Risa Sawaki
- 63.343 **Deriving configuration effects in spatial working memory from rational correspondence** Jorge Aurelio Menendez, Gi Yeul Bae, Colin Wilson, Jonathan Flombaum
- 63.344 **The ex-Gaussian analyses of reaction time distributions for visual working memory-based change detection under over-capacity setsizes** Hyung-Bum Park, Joo-Seok Hyun
- 63.345 **Effects of Emotion on Visual Working Memory** Weizhen Xie, Weiwei Zhang
- 63.346 **Dissociating Contents of Consciousness from Contents of Short-Term Memory** Thomas Alrik Sørensen, Árni Gunnar Ásgeirsson, Camilla Funch Staugaard, Morten Overgaard

Face perception: Emotions

Wednesday, May 21, 8:30 am - 12:30 pm

Poster Session, Banyan Breezeway

- 63.401 **Distinct Representations for Rigid and Non-Rigid Facial Movements in Face-Selective Regions of the Human Brain** Tessa Flack, David Watson, Richard Harris, Mark Hymers, Andre Gouws, Andrew Young, Timothy Andrews
- 63.402 **Characterizing the Manifolds of Dynamic Facial Expression Categorization** Ioannis Delis, Rachael Jack, Oliver Garrod, Stefano Panzeri, Philippe Schyns
- 63.403 **Mental representations of emotional facial expressions are more complex rather than less accurate in older observers** Katarzyna Jaworska, Nicola J. van Rijsbergen, Steven W. McNair, Ioannis Delis, Oliver G.B. Garrod, Rachael E. Jack, Guillaume A. Rousselet, Philippe G. Schyns
- 63.404 **Recognition of complex and realistic facial expressions of emotion** Shichuan Du, Pamela Pallett, Aleix M. Martinez
- 63.405 **Fearful facial expressions are salient to early visual processes: evidence from effective contrast analyses and continuous flash suppression.** Nicholas Hedger, Wendy J. Adams, Matthew Garner
- 63.406 **Attentional effect on facial expression adaptation** Pan Liu, Hong Xu
- 63.407 **Is He Afraid or Looking at a Spider? Visual Attention to Facial Expressions Varies With the Task** Nicole Nelson, Catherine Mondloch
- 63.408 **Neural Responses to Object Priming of Fearful and Happy Facial Expressions** Bonnie Heptonstall, Marilyn Thorpe, Buyun Xu, James Tanaka
- 63.409 **Enhancing facial emotion recognition with tACS induced gamma oscillations** Agnieszka Janik, Tirta Susilo, Constantin Rezlescu, Michael Banissy
- 63.410 **Brain Networks for the Categorization of Facial Expressions of Emotion** Aleix Martinez, Shichuan Du, Dirk Walther

- 63.411 **Facial expression recognition takes longer in the posterior superior temporal sulcus (pSTS) than in the occipital face area (OFA)** David Pitcher
- 63.412 **Continuous and Categorical Patterns of Neural Response to Facial Expressions in Face-Selective Regions of the Human Brain** Mladen Sormaz, Andrew W Young, David M Watson, Timothy J Andrews
- 63.413 **Hemispheric differences in visual strategies used in facial expression categorization** Karolann Robinson, Jessica Royer, Caroline Blais, Daniel Fiset
- 63.414 **From the eyes to the rest of the face in visual cortex: Decoding facial expressions of emotion across non-overlapping face feature information** Fraser Smith, Derek Mitchell, Steven Greening
- 63.415 **Impact of task demands and fixation to features on the time course of facial emotion processing** Karly Neath, Roxane Itier
- 63.416 **Matching emotional expressions of faces within an olfactory context: Does my own feeling matter?** Arnaud Leleu, Caroline Demily, Nicolas Franck, Karine Durand, Jean-Yves Baudouin, Benoist Schaal
- 63.417 **Sight sublimated by odors: effect of subliminal odors on facial emotion detection.** Nicolas Dollion, Jean-Yves Baudouin, Karine Durand, Benoist Schall
- 63.418 **Perceiving "face space"** Sean F. O'Neil, Amy Mac, Michael A. Webster
- 63.419 **Beyond the basics: Facial expressions of compound emotions** Pamela Pallett, Aleix Martinez
- 63.420 **The effect of contrast negation on real/artificial face discrimination** Christopher Tonsager, Benjamin Balas

Spatial vision: Neural mechanisms

Wednesday, May 21, 8:30 am - 12:30 pm

Poster Session, Banyan Breezeway

- 63.421 **Separating neuronal suppression from hemodynamic suppression** Pinglei Bao, Chris Purington, Bosco S. Tjan
- 63.422 **The pattern of spontaneous visual cortex activity is not altered by callosotomy or extrastriate lesion** Geoffrey Karl Aguirre, Omar Butt
- 63.423 **Local density of human midget retinal ganglion cell receptive fields** Andrew Watson
- 63.424 **Reduced visual orientation-surround suppression in schizophrenia shown by measuring contrast detection thresholds** Ignacio Serrano-Pedraza, Verónica Romero-Ferreiro, Jenny C. A. Read, Teresa Diéguez-Risco, Alexandra Bagney-Lifante, Montserrat Caballero-González, Javier Rodríguez-Torresano, Roberto Rodríguez-Jiménez
- 63.425 **The impact of psychological stress on the contrast sensitivity function** Andréa Deschênes, Justin Duncan, Camille Daudelin-Peltier, Youna Dion Marcoux, Caroline Blais, Daniel Fiset, Hélène Forget
- 63.426 **Impact of pulvinar on contrast response functions in the primary visual cortex** Christian Casanova, Jimmy Lai, Sébastien Thomas
- 63.427 **A multi-pronged approach to identifying functional subdivisions of the human pulvinar** Jason Fischer, Nancy Kanwisher
- 63.428 **Spatial frequency tuning characteristics of primate superior colliculus neurons** Chih-Yang Chen, Ziad M. Hafed
- 63.429 **Spatiotemporal properties of macaque retinal ganglion cells: an harmonic analysis and relationships to psychophysical data** Bonnie Cooper, Barry Lee

63.430 **Activity in early visual areas reflects the trial-by-trial precision of perception** Ruben van Bergen, Wei Ji Ma, Michael Pratte, Janneke Jehee

63.431 **Cholinergic enhancement increases information content of stimulus representations in human visual cortex** Ariel Rokem, Michael Silver

63.432 **Filling-in of an Induced Foveal Scotoma in Human Visual Cortex** Jessica M. Thomas, Paola Binda, Ione Fine, Geoffrey M. Boynton

63.433 **Surround suppression in amblyopic central vision** Carey Y. L. Huh, Eunice Yang, Michael Silver, Dennis Levi

63.434 **Two mechanisms subserve the oblique effect** Kyriaki Mikellidou, Peter Thompson, David Burr

63.435 **Does perceptual learning transfer between 1st and 2nd order mechanisms that mediate fine orientation discriminations?** Lynn Olzak, Mingliang Gong

63.436 **Limiting Factors in Form and Motion Perception: Shared locally, Differentiated Globally** Mahesh Raj Joshi, Anita J Simmers, Seong Taek Jeon

63.437 **Pain Tolerance Predicts Spatial But Not Temporal Vision Thresholds in Human Adults** Michele E. Mercer, Geoff L. Smith, Paul A.S. Sheppard

63.438 **Retinotopic visual mapping of brain oxygenation and neuronal activity using simultaneous fast and slow near-infrared optical brain imaging in humans.** Kyle E. Mathewson, Kathy A. Low, Nils Schneider-Garces, Antonio Chiarelli, Chin Hong Tan, Tania Kong, Courtney R. Burton, Mark A. Fletcher, Benjamin Zimmerman, Brad P. Sutton, Edward L. Maclin, Monica Fabiani, Gabriele Gratton

Spatial vision: Texture

Wednesday, May 21, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

63.439 **Investigating the shape of the contrast sensitivity function using white, bandpass, and contrast jitter noise** Alex S. Baldwin, Robert F. Hess

63.440 **Perceptual biases and comparison biases in noisy 2D orientation displays** Elizabeth Cifuentes, Michael Fishman, Frank Durgin

63.441 **Mapping number to space engages adaptive encoding mechanisms** David Burr, Guido Marco Cicchini, Giovanni Anobile

63.442 **Invariant texture recognition depends on high-order statistics** Catherine Conlin, Benjamin Balas

63.443 **Perceptual requirements and consequences of lateral inhibition** Joshua Solomon, James Kraft, Charles Chubb

63.444 **Order-disorder transition in visual perception** Mikhail Katkov, Hila Harris, Dov Sagi

63.445 **Spatial integration of orientation-defined texture** Gunnar Schmidtmann, Ben Jennings, Jason Bell, Frederick Kingdom

63.446 **A unified framework and normative dataset for second-order sensitivity using the quick Contrast Sensitivity Function (qCSF)** Alexandre Reynaud, Yong Tang, Yifeng Zhou, Robert Hess

63.447 **Contour integration affects perceived mean orientations of Gabors** Oakyoon Cha, Sang Chul Chong

63.448 **The neural response to visual symmetry in wallpaper patterns** Peter J. Kohler, Alasdair D. F. Clarke, Joan Liu-Shuang, Yanxi Liu, Anthony M. Norcia

63.449 **Early visual ERP components are sensitive to natural texture appearance** Benjamin Balas, Catherine Conlin

63.450 **Stimulus selectivity of broadband field potentials, but not gamma oscillations, matches population responses as measured by BOLD fMRI in human visual cortex** Dora Hermes, Kendrick Kay, Jonathan Winawer

Face perception: Disorders, individual differences

Wednesday, May 21, 8:30 am - 12:30 pm
Poster Session, Banyan Breezeway

63.451 **A proposal for developmental prosopagnosia 'sub-types' based on differential face perception and face memory performance** Sarah Cohan, Joseph DeGutis

63.452 **A dissociation between face perception and face memory in adults, but not children, with developmental prosopagnosia** Kirsten Dalrymple, Brad Duchaine

63.453 **Do face and word recognition deficits dissociate? A study of four acquired prosopagnosics** Brad Duchaine, Tirta Susilo, Victoria Wright, Jeremy Tree

63.454 **Facial motion does not help face recognition in congenital prosopagnosics** Janina Esins, Isabelle Bülhoff, Johannes Schultz

63.455 **A possible marker of configural processing at the N170: Converging evidence from typical participants and a case of prosopagnosia** Natalie Mestry, Tamaryn Menneer, Michael J. Wenger, Rosaleen McCarthy, Nick Donnelly

63.456 **Caricaturing improves face recognition in simulated prosthetic vision.** Elinor McKone, Jessica L. Irons, Tamara Gradden, Xuming He, Nick Barnes

63.457 **Altered hemispheric specialization for faces and word in developmental dyslexia** Eva Dundas, Yafit Gabay, David Plaut, Marlene Behrmann

63.458 **Alexithymia explains impaired emotion recognition in eating disorders and schizophrenia** Rebecca Brewer, Richard Cook, Geoffrey Bird

63.459 **Greater usage of the left eye causes better facial gender discrimination** Frédéric Gosselin, Alexandre Coüet-Garand, Nicolas Dupuis-Roy

63.460 **Face Motion Influences Eye Movement Patterns and Face Processing in Children** Steve Perrotta, Naiqi Xiao, Paul Quinn, Jinliang Qin, Genyue Fu, Liezhong Ge, Kang Lee

63.461 **Early and late neural correlates of individual differences in fixation-specific face recognition performance** Matthew F. Peterson, Charles Or, James Elliott, Barry Giesbrecht, Miguel P. Eckstein

63.462 **Individual differences in face recognition abilities linked to variations in diagnostic facial information.** Jessica Royer, Sandra Lafortune, Justin Duncan, Caroline Blais, Daniel Fiset

63.463 **A reciprocal model of face recognition and the autism condition: Evidence from an individual differences perspective** James Tanaka, Drew Halliday, Stuart MacDonald, Suzanne Scherf

63.464 **Narcissistic personality differences in facial emotional expression categorization** Jessica Tardif, Daniel Fiset, Caroline Blais

Topic Index

Below is a list of talk and poster sessions by topic. Parentheses indicate the abstracts that are included in each session.

3D Perception

Oral Presentation (54.11-54.17)
Tuesday, May 20, 2:30 - 4:15 pm

3D Perception: Shape from X

Poster Presentation (43.301-43.320)
Monday, May 19, 8:30 am - 12:30 pm

3D Perception: Space

Poster Presentation (23.521-23.543)
Saturday, May 17, 8:30 am - 12:30 pm

Attention: Capture

Poster Presentation (26.515-26.531)
Saturday, May 17, 2:45 - 6:45 pm

Attention: Control

Oral Presentation (21.21-21.26)
Saturday, May 17, 8:15 - 9:45 am

Attention: Divided

Poster Presentation (33.529-33.542)
Sunday, May 18, 8:30 am - 12:30 pm

Attention: Endogenous and exogenous

Poster Presentation (26.532-26.540)
Saturday, May 17, 2:45 - 6:45 pm

Attention: Features

Poster Presentation (53.519-53.533)
Tuesday, May 20, 8:30 am - 12:30 pm

Attention: Features and objects

Oral Presentation (22.21-22.27)
Saturday, May 17, 10:45 am - 12:30 pm

Attention: Inattentive blindness

Poster Presentation (36.301-36.310)
Sunday, May 18, 2:45 - 6:45 pm

Attention: Individual differences

Poster Presentation (33.543-33.557)
Sunday, May 18, 8:30 am - 12:30 pm

Attention: Memory, awareness and eye movements

Poster Presentation (36.332-36.341)
Sunday, May 18, 2:45 - 6:45 pm

Attention: Neural mechanisms

Poster Presentation (36.311-36.331)
Sunday, May 18, 2:45 - 6:45 pm

Attention: Neural mechanisms and modeling

Oral Presentation (54.21-54.27)
Tuesday, May 20, 2:30 - 4:15 pm

Attention: Neural mechanisms and modeling

Poster Presentation (33.516-33.528)
Sunday, May 18, 8:30 am - 12:30 pm

Attention: Objects

Poster Presentation (53.534-53.548)
Tuesday, May 20, 8:30 am - 12:30 pm

Attention: Reward and arousal

Poster Presentation (33.501-33.515)
Sunday, May 18, 8:30 am - 12:30 pm

Attention: Spatial

Oral Presentation (41.21-41.26)
Monday, May 19, 8:15 - 9:45 am

Attention: Spatial selection

Poster Presentation (53.501-53.518)
Tuesday, May 20, 8:30 am - 12:30 pm

Attention: Temporal

Oral Presentation (62.21-62.27)
Wednesday, May 21, 10:45 am - 12:30 pm

Attention: Temporal

Poster Presentation (26.541-26.553)
Saturday, May 17, 2:45 - 6:45 pm

Attention: Tracking

Poster Presentation (26.554-26.565)
Saturday, May 17, 2:45 - 6:45 pm

Binocular Vision

Oral Presentation (31.11-31.16)
Sunday, May 18, 8:15 - 9:45 am

Binocular Vision: Rivalry, competition and suppression

Poster Presentation (56.501-56.523)
Tuesday, May 20, 2:45 - 6:45 pm

Binocular Vision: Summation, interaction and disparity

Poster Presentation (53.401-53.423)
Tuesday, May 20, 8:30 am - 12:30 pm

Color and light: Adaptation and constancy

Poster Presentation (43.423-43.433)
Monday, May 19, 8:30 am - 12:30 pm

Color and light: Cognition

Poster Presentation (53.437-53.449)
Tuesday, May 20, 8:30 am - 12:30 pm

Color and light: Lightness and brightness

Poster Presentation (23.401-23.418)
Saturday, May 17, 8:30 am - 12:30 pm

Color and light: Neural mechanisms

Poster Presentation (53.424-53.436)
Tuesday, May 20, 8:30 am - 12:30 pm

Color and light: Receptors and mechanisms

Oral Presentation (35.11-35.18)
Sunday, May 18, 5:15 - 7:15 pm

Color and light: Surfaces and materials

Oral Presentation (61.11-61.16)
Wednesday, May 21, 8:15 - 9:45 am

Color and light: Surfaces and materials

Poster Presentation (33.401-33.415)
Sunday, May 18, 8:30 am - 12:30 pm

Development

Oral Presentation (41.11-41.16)
Monday, May 19, 8:15 - 9:45 am

Development: Amblyopia

Poster Presentation (36.430-36.439)
Sunday, May 18, 2:45 - 6:45 pm

Development: Autism

Poster Presentation (36.416-36.429)
Sunday, May 18, 2:45 - 6:45 pm

Development: Lifespan

Poster Presentation (26.301-26.319)
Saturday, May 17, 2:45 - 6:45 pm

Eye movements: Cognition

Poster Presentation (23.419-23.439)
Saturday, May 17, 8:30 am - 12:30 pm

Eye movements: Fixational

Poster Presentation (23.440-23.448)
Saturday, May 17, 8:30 am - 12:30 pm

Eye movements: Natural tasks and environments

Poster Presentation (43.338-43.350)
Monday, May 19, 8:30 am - 12:30 pm

Eye movements: Perception and mechanisms

Oral Presentation (24.11-24.17)
Saturday, May 17, 2:30 - 4:15 pm

Eye movements: Perception and neural mechanisms

Poster Presentation (56.434-56.446)
Tuesday, May 20, 2:45 - 6:45 pm

Eye movements: Perisaccadic perception

Oral Presentation (34.11-34.17)
Sunday, May 18, 2:30 - 4:15 pm

Eye movements: Perisaccadic perception

Poster Presentation (56.447-56.460)
Tuesday, May 20, 2:45 - 6:45 pm

Eye movements: Pursuit

Poster Presentation (33.441-33.449)
Sunday, May 18, 8:30 am - 12:30 pm

Eye movements: Saccade mechanisms and metrics

Poster Presentation (43.321-43.337)
Monday, May 19, 8:30 am - 12:30 pm

Face Perception

Oral Presentation (24.21-24.27)
Saturday, May 17, 2:30 - 4:15 pm

Face perception: Disorders, individual differences

Poster Presentation (63.451-63.464)
Wednesday, May 21, 8:30 am - 12:30 pm

Face perception: Emotions

Poster Presentation (63.401-63.420)

Wednesday, May 21, 8:30 am - 12:30 pm

Face perception: Experience, learning and expertise 1

Poster Presentation (43.501-43.516)

Monday, May 19, 8:30 am - 12:30 pm

Face perception: Experience, learning and expertise 2

Poster Presentation (56.524-56.537)

Tuesday, May 20, 2:45 - 6:45 pm

Face perception: Identity

Poster Presentation (33.558-33.568)

Sunday, May 18, 8:30 am - 12:30 pm

Face perception: Neural mechanisms

Oral Presentation (35.21-35.28)

Sunday, May 18, 5:15 - 7:15 pm

Face perception: Neural mechanisms

Poster Presentation (23.501-23.520)

Saturday, May 17, 8:30 am - 12:30 pm

Face perception: Social cognition

Poster Presentation (56.538-56.556)

Tuesday, May 20, 2:45 - 6:45 pm

Face perception: Whole and parts

Poster Presentation (33.569-33.583)

Sunday, May 18, 8:30 am - 12:30 pm

Individual differences

Oral Presentation (61.21-61.26)

Wednesday, May 21, 8:15 - 9:45 am

Motion perception: Biological

Poster Presentation (53.450-53.469)

Tuesday, May 20, 8:30 am - 12:30 pm

Motion Perception: Biological, adaptation and higher order

Oral Presentation (62.11-62.17)

Wednesday, May 21, 10:45 am - 12:30 pm

Motion Perception: Depth, higher order, illusions

Poster Presentation (26.401-26.424)

Saturday, May 17, 2:45 - 6:45 pm

Motion Perception: Local motion and optic flow

Poster Presentation (33.427-33.440)

Sunday, May 18, 8:30 am - 12:30 pm

Motion Perception: Models

Poster Presentation (33.416-33.426)

Sunday, May 18, 8:30 am - 12:30 pm

Motion Perception: Neural mechanisms

Poster Presentation (26.425-26.438)

Saturday, May 17, 2:45 - 6:45 pm

Motion Perception: Neural mechanisms and modeling

Oral Presentation (22.11-22.17)

Saturday, May 17, 10:45 am - 12:30 pm

Multisensory processing

Oral Presentation (55.21-55.28)

Tuesday, May 20, 5:15 - 7:15 pm

Multisensory processing: Neural mechanisms, somatosensory, vestibular

Poster Presentation (53.573-53.589)

Tuesday, May 20, 8:30 am - 12:30 pm

Multisensory processing: Visuo-auditory interactions

Poster Presentation (33.324-33.348)

Sunday, May 18, 8:30 am - 12:30 pm

Object recognition: Categories

Poster Presentation (23.577-23.588)

Saturday, May 17, 8:30 am - 12:30 pm

Object recognition: Features and parts

Poster Presentation (56.557-56.571)

Tuesday, May 20, 2:45 - 6:45 pm

Object recognition: General

Poster Presentation (63.321-63.330)

Wednesday, May 21, 8:30 am - 12:30 pm

Object recognition: Mechanisms and models

Poster Presentation (56.572-56.586)

Tuesday, May 20, 2:45 - 6:45 pm

Object recognition: Neural mechanisms 1

Oral Presentation (42.21-42.26)

Monday, May 19, 10:45 am - 12:15 pm

Object recognition: Neural mechanisms 2

Oral Presentation (52.21-52.27)

Tuesday, May 20, 10:45 am - 12:30 pm

Object recognition: Reading

Poster Presentation (23.562-23.576)

Saturday, May 17, 8:30 am - 12:30 pm

Perception and action: Decisions, interception

Poster Presentation (43.517-43.539)

Monday, May 19, 8:30 am - 12:30 pm

Perception and action: Locomotion

Oral Presentation (21.11-21.16)

Saturday, May 17, 8:15 - 9:45 am

Perception and action: Locomotion, wayfinding, space

Poster Presentation (63.301-63.319)

Wednesday, May 21, 8:30 am - 12:30 pm

Perception and action: Neural mechanisms

Poster Presentation (26.501-26.514)

Saturday, May 17, 2:45 - 6:45 pm

Perception and action: Reaching and grasping

Poster Presentation (33.301-33.323)

Sunday, May 18, 8:30 am - 12:30 pm

Perception and action: Reaching and grasping

Oral Presentation (52.11-52.17)

Tuesday, May 20, 10:45 am - 12:30 pm

Perceptual learning

Oral Presentation (32.21-32.27)

Sunday, May 18, 10:45 am - 12:30 pm

Perceptual learning: Methods and mechanisms

Poster Presentation (53.329-53.346)

Tuesday, May 20, 8:30 am - 12:30 pm

Perceptual Learning: Plasticity and adaptation

Poster Presentation (36.401-36.415)

Sunday, May 18, 2:45 - 6:45 pm

Perceptual learning: Specificity and transfer

Poster Presentation (56.319-56.338)

Tuesday, May 20, 2:45 - 6:45 pm

Perceptual organisation: Contours and surfaces

Poster Presentation (23.335-23.343)

Saturday, May 17, 8:30 am - 12:30 pm

Perceptual organisation: Neural mechanisms and models

Poster Presentation (23.318-23.334)

Saturday, May 17, 8:30 am - 12:30 pm

Perceptual organization: Grouping

Poster Presentation (43.434-43.446)

Monday, May 19, 8:30 am - 12:30 pm

Perceptual organization: Neural mechanisms and models

Oral Presentation (34.21-34.27)

Sunday, May 18, 2:30 - 4:15 pm

Perceptual organization: Segmentation, shapes and objects

Poster Presentation (26.320-26.338)

Saturday, May 17, 2:45 - 6:45 pm

Perceptual organization: Surfaces, segmentation, shapes and objects

Oral Presentation (51.11-51.16)

Tuesday, May 20, 8:15 - 9:45 am

Scene perception

Oral Presentation (55.11-55.18)

Tuesday, May 20, 5:15 - 7:15 pm

Scene perception: Categorization and memory

Poster Presentation (43.554-43.565)

Monday, May 19, 8:30 am - 12:30 pm

Scene perception: Neural mechanisms

Poster Presentation (53.557-53.572)

Tuesday, May 20, 8:30 am - 12:30 pm

Scene perception: Spatial and temporal factors

Poster Presentation (26.566-26.583)

Saturday, May 17, 2:45 - 6:45 pm

Scene perception: Summary statistics

Poster Presentation (43.566-43.579)

Monday, May 19, 8:30 am - 12:30 pm

Spatial vision: Crowding and context

Oral Presentation (25.11-25.16)

Saturday, May 17, 5:15 - 6:45 pm

Spatial vision: Crowding and eccentricity

Poster Presentation (43.401-43.422)

Monday, May 19, 8:30 am - 12:30 pm

Spatial vision: Mechanisms, methods, models and time

Oral Presentation (32.11-32.17)
Sunday, May 18, 10:45 am - 12:30 pm

Spatial vision: Models

Poster Presentation (56.401-56.415)
Tuesday, May 20, 2:45 - 6:45 pm

Spatial vision: Natural image statistics

Poster Presentation (36.342-36.352)
Sunday, May 18, 2:45 - 6:45 pm

Spatial vision: Neural mechanisms

Poster Presentation (63.421-63.438)
Wednesday, May 21, 8:30 am - 12:30 pm

Spatial vision: Texture

Poster Presentation (63.439-63.450)
Wednesday, May 21, 8:30 am - 12:30 pm

Temporal processing

Poster Presentation (56.301-56.318)
Tuesday, May 20, 2:45 - 6:45 pm

Visual memory

Oral Presentation (31.21-31.26)
Sunday, May 18, 8:15 - 9:45 am

Visual memory: Capacity and resolution

Poster Presentation (63.331-63.346)
Wednesday, May 21, 8:30 am - 12:30 pm

Visual memory: Encoding and retrieval

Poster Presentation (43.540-43.553)
Monday, May 19, 8:30 am - 12:30 pm

Visual memory: Mechanisms and models

Poster Presentation (23.544-23.561)
Saturday, May 17, 8:30 am - 12:30 pm

Visual memory: Objects, features and individual differences

Poster Presentation (23.301-23.317)
Saturday, May 17, 8:30 am - 12:30 pm

Visual search

Oral Presentation (42.11-42.16)
Monday, May 19, 10:45 am - 12:15 pm

Visual search: Attention

Poster Presentation (53.301-53.320)
Tuesday, May 20, 8:30 am - 12:30 pm

Visual search: Context and memory

Poster Presentation (53.549-53.556)
Tuesday, May 20, 8:30 am - 12:30 pm

Visual search: Eye movements

Poster Presentation (56.416-56.433)
Tuesday, May 20, 2:45 - 6:45 pm

Visual search: Eye movements and mechanisms

Oral Presentation (25.21-25.26)
Saturday, May 17, 5:15 - 6:45 pm

Visual Search: Models and theories

Poster Presentation (53.321-53.328)
Tuesday, May 20, 8:30 am - 12:30 pm

Visual working memory: Neural mechanisms

Oral Presentation (51.21-51.26)
Tuesday, May 20, 8:15 - 9:45 am

Author Index

Entries are indexed by abstract number, not page number. "S" entries indicate symposia. **Bold** indicates first author.

A

Aagten-Murphy, D - 56.450
Abbey, CK - 56.419
Abd-Latif, N - 43.405
Aber, G - 23.425
Abrams, J - 36.342, S1
Abudarham, N - **33.569**
Achtman, R - 53.338
Adam, K - 23.314, **23.315**
Adams, W - **53.579**
Adams, WJ - 63.405
Adamson, V - **26.413**, 33.578
Adeleye, M - 56.438
Adeli, H - 43.345, **56.442**
Adelson, E - **43.301**, 51.16, 61.12
Adelstein, B - 56.403
Adkins, O - 23.303
Adler, S - 53.501, **56.420**
Adolphs, R - 36.426
Afraz, A - **35.21**
Agosta, S - 33.551, **62.24**
Aguilar, C - 43.417
Aguilar-Lleyda, D - **33.322**
Aguirre, GK - 23.505, 34.23, 35.13,
53.432, **63.422**
Ahlen, E - 23.567
Ahmad, J - 63.341
Ahmad-Rashaidi, NH - 43.405
Ahmed Wick, F - **43.543**
Ahumada, A - **56.403**
Aichelburg, C - 33.570
Aihara, K - 35.15
Aissani, C - 26.436
Aitkin, C - 43.335
Aivar, MP - 42.13, **56.426**
Aizenman, A - **56.418**
Ajina, S - **26.429**
Akahori, A - 43.431
Akins, K - 26.315
Akins, KA - 55.28
Aks, D - **26.560**, 26.561
Akshoomoff, N - 61.24
Al-Aidroos, N - **36.340**
Alais, D - **33.332**, 55.26
Alan Goodale, M - 23.581
Albers, D - **53.533**
Albert, R - 61.11
Albert, RA - 23.525, **43.314**
Albertazzi, L - 53.449
Albright, T - 26.336, 33.418
Alderete, J - 55.28
Ales, J - 23.517, 36.344
Alexander, R - **25.22**
Allard, R - **22.17**
Allefeld, C - 23.507
Allen, JJ - 23.323
Allen, M - **26.533**
Allenmark, F - **43.519**
Allik, J - 36.304
Allison, R - 53.421
Allon, AS - **23.550**
Allred, S - 23.548, 43.427

Allred, SR - 43.430
Alomawi, N - **33.309**
Alon, L - 36.338
Alonso-Prieto, E - **23.519**
Alonzo, M - 56.431
Alp, N - **23.318**
Alvarez, BA - 33.348
Alvarez, G - 53.301
Alvarez, GA - 22.22, 23.577, 23.578,
31.26, 43.542, 43.557, 51.25,
52.21, 61.22
Alvarez, I - 24.24, 36.311
Aly, M - **36.324**
Amari, S - 36.346
Amedi, A - 53.581, 63.315
Amelia, H - 53.443
Aminoff, E - 26.569, **53.558**
Amir, O - **26.310**, 56.561
Amishav, R - 24.23
Amsrala, G - 23.416
Amthor, F - 26.425
Andersen, G - 26.318
Andersen, GJ - 33.431, 56.333
Andersen, SK - **22.24**
Anderson, B - 23.334, 26.539,
33.401, 43.573, 53.505, 61.14
Anderson, BA - 26.540, **33.510**
Anderson, BL - 23.534
Anderson, DE - **51.21**
Anderson, J - **43.404**
Andrew, M - 41.13
Andrews, T - 53.567, 63.401, S3
Andrews, TJ - 63.412
Ang, CW - 36.328
Angelone, B - **36.305**
Angeloni, C - **26.551**
Anobile, G - 63.441
Anson, U - 36.315
Anstis, S - **62.17**
Anthony, S - **56.550**
Antonelli, K - **23.310**
Anzellotti, S - **23.502**, S2
Apicella, C - 53.446
Apthorp, D - **32.13**
Arató, J - **26.580**
ArceLopera, C - **33.411**
Arcizet, F - **33.518**
Arias, D - **33.346**
Arieli, A - 43.350
Arizpe, J - **23.501**
Armstrong, K - 36.424
Arn, S - 23.416
Arnell, K - 33.550, **33.555**
Arnold, D - 23.524, 26.403, 33.580,
56.310, 56.317, **62.16**
Arnoldussen, DM - 53.419
Arredondo, S - 23.576
Ásgeirsson, ÁG - **33.501**, 63.346
Aslin, R - 33.520, 53.548
Aslin, RN - 53.345
Assif, L - 56.559
Atkinson, J - 41.13, **61.24**

Attar, N - **56.421**
Attarha, M - **43.566**
Au, TK - 23.574
Austin, A - 53.523
Avidan, G - 24.23, S2, S4
Awah, E - 51.21, 63.337
Ayars, A - **26.329**
Aydin, S - **56.438**
Ayhan, I - **63.322**
Aytekin, M - 24.12, 24.13
Azadi, R - **43.321**

B

Babcock, J - S1
Babendure, JR - 33.321
Babinsky, E - 26.301
Baccus, W - **63.303**
Bach, M - **26.407**, 56.507
Backus, B - 53.404
Badcock, D - **56.406**
Badcock, DR - 26.431
Baddeley, A - 43.540
Bae, G - **23.548**
Bae, GY - 63.343
Baek, J - **23.546**
Baek, Y - **43.501**
Bagny-Lifante, A - 63.424
Bahle, B - 53.551
Bahrani, B - 53.466
Bai, X - 26.575, 26.576
Bai, Y - 43.579
Bailey, CR - **53.575**
Bainbridge, C - **33.333**
Bainbridge, R - 23.582
Bainbridge, W - 33.562
Bainbridge, WA - **23.552**
Baisa, A - 36.429
Baker, C - 23.501, 23.556, 26.512,
43.319, 43.510
Baker, CL - 43.316
Baker, DH - 43.521, 53.405, **56.405**
Baker, L - **56.538**
Bala, K - 61.12
Balaban, H - **23.551**
Balas, B - 23.513, 23.529, 33.573,
63.420, 63.442, **63.449**
Balch, L - 33.312
Baldassano, C - **53.559**
Baldauf, D - **54.23**
Baldwin, AS - **63.439**
Ball, F - **56.584**
Baltaretu, B - **56.449**
Baluch, F - 36.430
Ban, H - **23.412**, 33.406, 53.414
Band, J - 53.548
Banerjee, S - **36.316**
Banissy, M - **33.559**, 63.409
Banks, M - 23.525, 53.415, 54.12,
61.11
Banks, MS - 43.314
Bao, M - 32.25, 32.26
Bao, P - 31.11, 36.430, **63.421**

Bao, V - **36.416**, 36.418
Bao, Y - **26.532**
Bapiraju, S - 56.312
Bar, R - 36.412
Barakat, T - **23.423**
Baran, Z - 43.437
Baranton, K - **36.431**
Barat, M - 52.15
Barbot, A - **41.23**, 56.328
Barbur, J - 26.319
Barenholtz, E - 43.334, 43.577,
53.574, 56.558, **63.324**
Barhomi, Y - **63.307**
Barnas, AJ - **63.309**
Barnes, LN - 33.348
Barnes, N - 63.456
Barnett-Cowan, M - **33.302**, 56.332,
62.25
Barr, S - 26.322
Barracough, N - S5
Barras, C - **26.520**
Barth, M - 41.25
Barton, J - 23.428, 23.566, 23.568,
43.326
Barton, JJ - 23.519, 23.567, 23.569,
43.508
Barton, S - 21.13
Baseler, H - 26.438
Basu, P - 56.312
Battelli, L - **33.551**, 53.459, 62.24
Batten, J - 33.338
Baudouin, J - 63.416, 63.417
Bauer, P - 33.336
Baumgartner, E - **33.410**
Baumgartner, F - 53.318
Bavellier, D - 36.410, 36.436, 53.403,
53.413
Baxter, M - 23.303, 43.317
Bayliss, J - 36.410, 36.436, 53.403
Bays, B - **53.343**
Beattie, L - **56.307**, 56.308
Beauchamp, M - 61.26
Beauchamp, MS - 53.585
Beben, K - **33.308**
Becchio, C - S5
Beck, DM - 31.14, 42.22, 53.535,
53.559, 55.13
Beck, M - 26.515
Beck, MR - 26.562, **53.507**
Beck, TF - **43.529**
Beck, V - **53.527**
Becker, M - 53.314
Becker, MW - **26.526**
Bédard, P - 43.539
Bedell, H - 26.536
Bedell, HE - 56.438
Bedford, R - 33.338
Bednar, JA - 56.582
Beers, AM - **56.504**
Begos, K - 23.523
Behrmann, M - 24.23, 33.576, 35.25,
41.15, 63.457, S2, S4
Bell, J - 23.337, 26.402, 32.13, 63.445

- Belopolosky, AV - 26.524
 Ben-Shahar, O - 43.318, 43.439
 Ben-Yosef, G - **56.559**
 Benassi, M - 43.438
 Benedict, J - 43.538
 Bennett, P - 26.321, 26.333, 53.539, 56.319
 Bennett, PJ - 23.516, 26.410, 33.563, 33.579, 56.504, 56.535
 Benson, NC - **34.23**
 Benson, V - 23.436
 Benton, C - **53.465**
 Benton, CP - 56.308, 56.309
 Berenato, A - 26.521
 Berg, D - 33.519
 Bergen, H - 26.302
 Berggren, N - **33.549**
 Berlot, E - 43.535
 Berman, D - **53.560**
 Berman, M - 43.347
 Bernard, J - 43.401, **43.417**
 Berry, I - 32.23
 Berryhill, M - 23.309, 23.554
 Berryhill, ME - 63.340
 Bert, J - 43.545
 Bertalmio, M - 23.413, **23.415**
 Bertamini, M - 26.556
 Bertone, A - 26.563, 36.416, 36.417, 36.418, 36.419
 Bertozzi, F - 26.504
 Bettencourt, K - **51.26**
 Beutter, B - 56.403
 Bevitt, J - 63.303
 Bex, PJ - 23.340, 36.435, 43.325, 53.402, S1
 Beykirch, K - 33.436
 Beyko, A - 26.559
 Bhattacharjee, A - 33.313, 33.317
 Biagi, L - 22.12
 Bian, Z - **26.318**
 Biba, M - **26.319**
 Bidula, S - 26.508, 26.510
 Biederman, I - **24.21**, 26.310, 56.561
 Biessmann, F - 24.27
 Bilger, E - 23.501
 Billawa, S - 26.438
 Billino, J - **26.311**
 Billock, V - **53.424**
 Binda, P - 63.432
 Binns, K - 26.326
 Binsted, G - 26.506
 Biotti, F - **43.516**
 Bird, G - 43.535, 63.458
 Bittner, J - 26.574
 Bittner, JL - **63.321**
 Blagrove, E - 26.308
 Blaha, L - 53.303
 Blaha, LM - 63.321
 Blair, C - **26.411**, 43.574, 51.13
 Blais, C - 56.548, 56.549, 63.413, 63.425, 63.462, 63.464
 Blake, R - 23.511, 43.336
 Blanchard, T - 33.520
 Blangero, A - 23.324, 36.312, 43.324
 Blaser, E - 26.313, 36.425, 53.504
 Blumias, R - 53.441
 Blohm, G - 33.311
 Blonievsky, T - 33.549
 Blumberg, EJ - 63.327
 Blumenthal, E - 26.302
 Boal, HL - 62.18
 Bock, A - S4
 Boeddeker, N - **21.12**
 Boettcher, SE - **53.304**, 53.307
 Bohil, C - 23.586, 23.588
 Bohon, K - 53.425
 Boi, M - 23.441
 Boland, K - 36.305
 Bollimunta, A - **33.517**
 Bolte, B - 21.11
 Bolzani, R - 43.438
 Bonneaud, S - 21.14, 63.307
 Bonnehan, Y - 41.15, **43.350**
 Boone, JM - 56.419
 Boot, W - **26.530**, 26.531, 26.559, 53.542
 Boremanse, A - 23.518
 Borji, A - **43.344**
 Born, RT - 34.14
 Born, S - **34.15**, 56.456
 Borsting, E - 23.437
 Bourassa, M - 26.544
 Bourrelly, C - **33.443**, 33.446
 Bovik, A - 26.566, 36.343, 36.347
 Boyden, ES - 35.21
 Boynton, GM - 55.17, 63.432
 Bozzacchi, C - **33.310**
 Braddick, O - **41.13**, 61.24
 Bradley, C - S1
 Bradley, M - 36.414
 Brady, TF - 43.542, 43.557, **51.25**, 61.22
 Brainard, D - 53.446
 Brainard, DH - 35.13, **35.16**, 35.18, 43.432, 53.432
 Brancel, SR - 25.16
 Brandl-Rühle, S - 36.411
 Brandman, T - **23.512**
 Brang, D - 26.503, 33.334, 53.588, **55.23**
 Brascamp, J - 56.520
 Bratch, A - **26.322**
 Brattan, VC - **43.521**
 Braun, J - 31.15
 Bravo, M - **53.555**
 Brecher, K - **53.410**
 Breitmeyer, B - 43.547, 43.548
 Bremmer, F - 34.14
 Brenner, E - 34.16, 43.534, **52.11**
 Breuel, TM - 23.438
 Breveglieri, R - 26.504
 Brewer, R - **63.458**
 Bridge, H - 26.429, 31.12, S4
 Bridge, L - 26.438
 Bridgeman, B - **56.437**, 56.450
 Bridgers, S - 41.16
 Briemann, A - **26.312**
 Brissart, H - 35.26
 Brisson, B - **26.544**, 26.549
 Bristol, R - 33.509
 Brixius, WJ - 36.303, **36.306**
 Bromfield, W - 26.322
 Bromfield, WD - **56.565**
 Brosch, T - **53.329**
 Brown, A - 53.445, 53.446
 Brown, J - 56.440
 Brown, JM - 43.564
 Brown, L - 33.308, 63.316
 Brum Medeiros, C - 53.461
 Bryan, P - 56.525
 Bryant, A - 53.588
 Buck, S - 23.418, 53.436
 Buckingham, G - 33.302, 33.320
 Buckthought, A - **43.316**, 43.319, 56.510
 Buelthoff, H - 43.536
 Buetti, S - 53.322, 53.326, 53.327, 54.27
 Buijing, I - 33.337
 Bukach, C - 56.547
 Bulatova, M - **53.532**
 Bulbul, A - 23.525, 43.314, 61.11
 Bülthoff, H - 26.420, 33.436, 53.450, S5
 Bülthoff, I - 53.451, 56.530, 63.454
 Bulloch, M - **43.523**
 Bullock, T - 33.530, **33.538**
 Bunch, D - 63.318
 Bundesen, C - 26.550, 33.501, 33.505, 33.508, 33.523, 33.542
 Burakowski, L - **53.336**
 Burge, J - **54.11**
 Burgess, N - 63.305
 Burke, DC - 33.583
 Burr, D - 63.434, **63.441**
 Burr, DC - 31.12
 Burrola, M - **26.330**
 Burton, CR - 63.438
 Burton, N - **43.505**
 Busch, N - **36.318**, 56.453, 56.584
 Busch, NA - 56.422
 Bush, W - **53.518**
 Bushmakin, M - **56.566**
 Buss, A - 23.560
 Butensky, A - 53.425
 Butt, O - 63.422
 Butt, OH - 34.23
 Byers, A - **56.325**
 Bylinskii, Z - **31.21**
 Byrne, CM - 52.15
- ## C
- Caballero-González, M - 63.424
 Cabestrero, R - 23.445
 Cabrera, C - **23.330**
 Cacciamani, L - **23.319**
 Caddigan, E - **25.23**
 Caddigan, S - 43.349
 Caetano, MS - 56.302
 Caggiano, V - S5
 Cai, LT - **53.404**
 Cai, M - **56.301**
 Cai, P - 26.428, **43.402**
 Cai, Y - **56.316**
 Cain, MS - **53.307**
 Cajar, A - **56.434**
 Kakal, S - **32.21**
 Caldara, R - 53.572
 Calder, A - 43.505
 Cali, JN - **26.410**
 Calloway, A - 43.317
 Cameron, EL - 43.404
 Campagnoli, C - **33.305**, 33.319
 Campbell, A - **43.506**
 Campoli, C - 43.538
 Candy, TR - **26.301**
 Canseco-Gonzalez, E - 33.336
 Cant, JS - 43.561, **53.570**
 Cantrell, L - **23.433**
 Canuto, H - 26.561
 Cao, B - **53.411**
 Cao, D - 24.15, 43.424
 Capistrano, CG - 23.316
 Caplette, L - **63.326**
 Caplovitz, G - 23.335, 23.554, 26.411, 43.574, 51.13
 Caplovitz, GP - 33.348, 53.569
 Cappadocia, DC - 23.423
 Cappelino, M - **23.553**
 Caradonna, A - 63.305
 Caramazza, A - 23.502, 56.562, S2
 Carbon, C - 23.422
 Carbonari, R - 33.537
 Carbonari, RS - 36.328
 Carlin, JD - **36.317**
 Carlisle, N - **36.339**
 Carlson, T - **34.21**, 52.25
 Carlson, TA - 52.23
 Carmel, D - 53.463
 Carmel, T - 36.338
 Carrasco, M - 22.21, **33.545**, 36.335, 36.404, 41.23, 53.339, 53.520, 56.326, 56.327, 56.328
 Carroll, A - 23.309
 Carter, B - **53.544**
 Carter, O - 33.541, 56.503
 Casagrande, V - 53.426
 Casanova, C - **63.426**
 Cassanello, C - **43.322**
 Casteau, S - 43.333, 56.442
 Castelhana, M - 26.577
 Castet, E - 43.330, 43.417
 Catena, A - 23.445
 Cavanagh, P - 23.307, 34.13, 34.15, 53.528, 56.448, 56.459
 Cavanaugh, M - **36.404**
 Cave, KR - 56.416
 Cavina-Pratesi, C - 52.15
 Cañal-Bruland, R - **33.312**
 Cañete Crespillo, J - 21.23
 Cecotti, H - 33.538
 Censi, S - **36.417**
 Cha, O - 23.317, **63.447**
 Chahine, N - 23.576
 Chakravarthi, R - 23.584
 Chan, A - **26.512**
 Chan, AB - 56.439
 Chan, D - **53.517**
 Chan, G - 33.575
 Chan, H - 56.537
 Chan, K - 36.341
 Chan, YM - **33.328**
 Chandrapala, T - 36.349
 Chaney, W - **36.313**
 Chang, A - **56.540**
 Chang, DH - **53.427**
 Chang, H - **53.321**
 Chang, J - **53.311**
 Chang, K - 43.579
 Chaparro, A - 53.317
 Charest, I - **52.23**
 Charman, T - 36.421
 Chartrand, JM - 23.430
 Chasteen, A - **53.513**
 Chauvin, A - 26.567, 53.565
 Cheadle, S - 43.567, **54.21**

- Chebat, D - 63.315
 Cheeseman, J - 23.303, **43.317**
 Chelnokova, O - **56.543**
 Chen, C - 23.522, **43.423**, 56.411, **63.428**
 Chen, D - **63.317**
 Chen, H - 43.423, **53.514**
 Chen, J - 23.533, **23.581**, 53.339, **56.585**, **63.301**
 Chen, L - 26.315, **26.328**, 26.541, 43.434, 43.446
 Chen, N - **26.428**
 Chen, Q - 23.540, 43.434
 Chen, R - 53.346, **63.304**
 Chen, S - 23.308, 53.454
 Chen, W - 26.558, 43.407
 Chen, Y - **26.314**, **26.324**, **26.505**
 Chen, Z - 33.303, **33.304**
 Cheng, D - **26.506**
 Cheong, Y - 26.417, 33.340
 Cherici, C - **24.12**
 Chiarelli, A - 63.438
 Chicherov, V - 25.11, **43.403**
 Chima, AS - 56.438
 Chiovetto, E - **24.22**
 Chiu, E - 56.428
 Cho, S - **33.402**, 33.554, 56.506
 Choe, Kw - **43.336**
 Choi, K - 53.582
 Choi, LK - **26.566**
 Choi, WY - **43.326**
 Cholewiak, S - 43.303, 61.13
 Cholewiak, SA - **54.14**
 Chong, E - 26.427
 Chong, SC - 23.317, 56.523, 63.447
 Choo, H - **55.11**
 Chopin, A - **53.413**
 Chouinard, P - 33.320
 Chow, HM - 26.548, **33.329**
 Christensen, J - **43.526**
 Christiansen, J - **53.409**
 Christine, NV - 56.567
 Chromý, J - 55.28
 Chu, R - **23.562**
 Chua, F - **53.519**
 Chua, PY - **26.578**
 Chubb, C - 26.543, 63.443
 Chuk, T - **56.439**
 Chun, M - 22.23, 53.557
 Chun, MM - 36.327
 Chung, H - **43.514**, 56.528
 Chung, S - 23.446, 32.12, **43.401**
 Ciaramitaro, V - 33.329
 Cicchini, GM - 63.441
 Cichy, R - **23.320**
 Cifuentes, E - **63.440**
 Cipollini, B - 43.512, **53.330**
 Cisarik, P - **26.408**
 Claessens, PM - 56.302
 Clark, HE - **26.415**
 Clarke, A - **22.25**, 25.11, **33.416**, 56.407
 Clarke, AD - 63.448
 Clarke, J - 36.302
 Clausen, S - 26.438
 Clavagnier, S - **36.438**
 Clement, A - **26.552**
 Clifton, P - 56.336
 Coates, D - **32.12**
 Cocchi, L - 33.541
 Cohan, S - **63.451**
 Cohen, A - 33.536
 Cohen, E - **56.576**
 Cohen, J - 51.23
 Cohen, MA - **23.577**
 Cohen, MR - 35.16
 Cohen, S - 56.327
 Cohen Hoffing, R - **53.334**
 Coia, A - **23.416**
 Cole, D - 53.345
 Coleman, T - **23.309**, 23.580
 Collegio, A - **53.543**
 Collignon, O - 36.416
 Collins, J - S2
 Collins, T - 53.528, **56.447**, 56.451, 56.459
 Comishen, M - 43.565
 Conci, M - **21.26**
 Cong, L - **23.575**, 53.340
 Conlin, C - **63.442**, 63.449
 Connolly, AC - 36.319
 Constable, RT - 36.327
 Conte, MM - 36.351, **36.352**
 Conway, B - **53.425**, 53.429
 Conway, J - 36.314
 Cook, J - 53.453
 Cook, R - **33.570**, 43.516, 43.535, 63.458
 Cook, T - **33.342**
 Cook, TC - 33.339, 56.337
 Cooper, B - **63.429**
 Cooper, E - 36.331, 36.344, 54.12
 Cooper, EA - **54.13**
 Corbett, J - **43.444**
 Cormack, L - 36.347, 36.407
 Cormiea, S - 21.16
 Cornelissen, FW - 43.422, 56.563
 Coros, A - 23.570
 Correll, M - 53.533
 Corrow, S - 26.413, **33.578**
 Cosman, J - **33.521**
 Costela, F - **23.444**, 56.305
 Cottaris, NP - 35.18, 43.432
 Cottrell, G - 43.512, 53.330
 Coutanche, MN - **23.321**
 Cox, M - 33.417, **34.26**
 Coy, A - **43.412**
 Coüet-Garand, A - 63.459
 Crainic, V - **33.313**, 33.330
 Cravo, AM - **56.302**
 Crawford, D - 43.328, 56.454
 Crawford, JD - 23.423, 26.505, 33.309, 56.449
 Crawford, LE - 43.552
 Creighton, S - 53.539
 Creighton, SE - 33.579, **56.535**
 Crespi, S - 22.12
 Crewther, D - **53.428**
 Cristino, F - **54.15**
 Crognale, M - 23.416, 53.433
 Cronin, D - **53.322**
 Crookes, K - **43.509**, 56.439
 Crouzet, SM - 55.12, **56.422**
 Culham, J - 33.302
 Culham, JC - 23.581
 Cumming, B - 33.428, 53.418
 Cunningham, CA - **53.312**
 Cunningham, W - 26.405
 Curio, C - 24.22
 Curran, T - 56.557
 Curran, W - 56.307, **56.308**, 56.309
 Currey, D - 36.322, **36.401**
 Currie, E - 33.449
 Curtis, C - **56.441**
 Curtis, CE - 63.335
 Cutrone, E - 53.520
 Cymerman, R - 33.545
D
 Daar, M - **33.567**
 da Cruz, L - 55.21
 Dai, Z - 55.23
 Dakin, S - 36.421
 Dakin, SC - 53.402
 Dale, A - 61.24
 Dale, G - 33.555
 Dalmaijer, E - 23.429, 42.14, 53.551
 Dalmaijer, ES - 23.401
 Dalrymple, K - **63.452**
 Dalton, G - 43.504
 Damon, F - 33.575
 Danckert, J - 23.334, 43.573
 D'Antona, A - 53.409
 Das, A - 36.404, **36.405**
 Dasgupta, S - **53.456**
 Dassonville, P - 53.577
 Datta, R - 35.13
 Daudelin-Peltier, C - 63.425
 Daugirdienė, A - 53.441
 Dauphin, B - 56.440
 Davidenko, N - 26.417, **33.340**
 Davies, C - 26.412
 Davies, L - 63.325
 Davies-Thompson, J - 23.568, **23.569**, 43.508
 Davitt, LI - 54.15
 Deas, L - **53.422**
 de Bruin, N - **63.316**
 DeCarlo, D - 53.346
 Dechter, E - 43.537
 Decker, P - 33.341
 Deconinck, G - 23.406
 DeCorte, B - **26.515**
 Deen, B - **23.503**
 Deering, S - 36.329
 de Gardelle, V - 43.530, 54.21
 de Grosbois, J - 33.313, 33.317, 33.330
 DeGutis, J - 33.531, 33.546, 61.23, 62.21, 63.451
 de Haas, B - **24.24**
 de Heering, A - **41.11**
 de la Malla, C - **33.314**
 De Lange, F - 41.25
 de la Rosa, S - 43.536, **53.450**, 53.451, S5
 DeLawyer, T - **23.418**
 Delis, I - **63.402**, 63.403
 Delorme, A - 43.541
 DeLoss, DJ - **56.333**
 Demily, C - 63.416
 Denison, R - **56.512**
 Dent, K - **53.308**
 Deouell, L - 36.325
 Derakshan, N - 33.549
 Deschênes, A - **63.425**
 DeSimone, J - **23.425**
 Desimone, R - 42.23, 54.23
 DeSouza, J - 23.430, **36.412**
 Dessing, J - 33.309, 56.454
 Deubel, H - 34.13, 41.21, **56.450**
 Deveau, J - **36.413**
 Devita, M - 36.423
 De Vito, D - **43.544**
 De Vries, J - **43.329**
 de-Wit, L - 23.322
 Dhawan, S - 41.21
 Diamond, J - 23.426
 Dias, J - 33.342
 Dias, JW - **33.339**, 56.337
 Diaz, G - **33.315**
 DiCarlo, J - 52.26
 DiCarlo, JJ - 23.583, 35.21, S6
 Dickinson, E - 56.406
 Dickinson, JE - 26.431
 Dienes, N - **26.554**
 Dieter, K - 25.15
 Dieter, KC - **56.522**
 Di Giacomo, R - 62.24
 Dillenburg, B - **43.323**
 Dillon, C - 56.547
 Ding, J - **53.401**
 Ding, XP - **26.316**
 Di Noto, P - 36.412
 Di Noto, PM - **23.430**
 Dion Marcoux, Y - 63.425
 DiQuattro, N - **26.528**
 Di Stasi, LL - **23.445**
 Diéguez-Risco, T - 63.424
 Dmochowski, J - **22.13**
 Dobbins, A - 26.425
 Dobias, J - **23.532**
 Dobkins, K - **26.302**
 Dobler, V - 26.323
 Dobres, J - **23.576**
 Docter, P - 43.311
 Dodd, M - **42.14**, 53.550, 53.551
 Dodd, MD - 23.429
 Dodds, T - 43.536
 Doerschner, K - 43.318
 Doi, E - **56.414**
 Dojat, M - 53.565
 Dollion, N - **63.417**
 Dominguez Lopez De Lacalle, O - 56.305
 Domini, F - 26.320, 33.305, 33.310, 33.319, 43.320, 52.13
 Dong, B - **32.26**
 Donk, M - **25.24**
 Donker, SF - 31.16
 Donlon, T - 26.413, 33.578
 Donnelly, N - 23.436, 56.416, 56.432, **56.556**, 63.455
 Donovan, I - **56.326**
 Doobay, V - 36.416
 Doobay, VM - **36.418**
 Doron, R - 56.335
 Dorr, M - S1
 Dorsi, JJ - 33.339, 56.337
 Doshier, B - 23.330, 53.332, **54.24**
 Doshier, BA - 33.425, 54.25
 Doucet, G - **63.331**
 Dövençioğlu, DN - **43.318**
 Doyle, E - 63.322
 Doyon, J - 63.318
 Draschkow, D - 55.14

- Drew, T - 53.305, 56.417, 56.418, **62.26**
- Drewes, J - 43.560, **56.304**
- Drawing, K - 26.311
- Du, F - 26.529, **36.333**
- Du, S - **63.404**, 63.410
- Dube, B - **33.550**
- Dubey, R - **53.323**
- Dubin, H - 35.18
- Duchaine, B - 33.559, 63.452, **63.453**
- Dufresne, K - 23.515
- Duggan, K - 56.338
- Dugué, L - **53.324**
- Dumoulin, S - 55.18
- Dumoulin, SO - 36.438
- Duncan, J - **23.563**, 56.549, 63.425, 63.462
- Dundas, E - **63.457**
- Dungan, BJ - **36.336**
- Dunkley, BT - 56.449
- Dupuis-Roy, N - **23.515**, 63.459
- Duran, G - **43.340**
- Durand, J - 54.12
- Durand, K - 63.416, 63.417
- Durant, S - 36.350, **53.458**, 56.306
- Durgin, F - 23.531, 23.542, **23.543**, 63.440
- Dutat, M - 26.553
- Duyck, M - **56.451**
- Dyhr Caspersen, I - **33.533**
- Dyrholm, M - 33.508
- Dzhelyova, M - **33.565**
- Dziemianko, M - 22.25
- Dziura, S - 63.303
- E**
- Eagleman, D - 56.301
- Eckstein, M - 25.23
- Eckstein, MP - 56.404, 63.461
- Edland, S - 36.314
- Edwards, M - **26.402**, 26.421, 62.18
- Egan, E - **43.305**, 43.306, 43.307
- Egan, R - 41.15
- Egeth, H - 26.525
- Egeth, HE - 53.312
- Ehinger, KA - 26.568, **42.11**
- Eikemo, M - 56.543
- Eimer, M - 36.315, 53.536
- Einarsdóttir, KV - 33.501
- Einhauser, W - 33.504, S1
- Eitam, B - 33.532
- Eklinder Björnstrom, L - **23.566**
- Ekroll, V - **51.14**
- Elbich, D - S4
- Elder, JH - 26.335
- Elliot, J - **33.530**, 63.461
- Emberson, LL - 53.345
- Emeana, C - 26.561
- Emir, U - 31.12
- Emmanouil, TA - 53.440, **53.526**
- Endres, D - 24.22, 43.529, 53.452
- Engbert, R - 23.435, 26.572, 56.434
- Engel, S - 32.26, 56.506
- Engel, SA - 31.11, 32.25, 36.406, 43.501
- Ennis, R - 24.15, 33.414
- Enns, JT - 26.315, 55.28
- Eo, KY - **23.317**
- Epstein, R - 56.525
- Epstein, RA - 26.570, 55.16
- Erb, J - **26.412**
- Ericson, J - **63.302**
- Ericson, JM - **26.562**, 53.507
- Erkelens, C - **43.312**
- Erlikhman, G - 23.329, **23.335**, 26.327
- Ernst, M - 21.12, 33.331, **43.528**, 52.12, 62.14
- Erol, M - **43.545**
- Esins, J - **63.454**
- Eskew, Jr., RT - **53.434**
- Ester, E - 36.329, **51.24**
- Esterman, M - 33.531, 33.546
- Etchegaray, D - **56.517**
- Evans, K - **43.540**
- Evans, KM - 43.348
- Everaert, J - **33.512**
- Ewing, L - 43.509
- Eymond, C - **53.528**
- F**
- Fabiani, M - 31.14, 63.438
- Fabre-Thorpe, M - 23.584, **43.541**
- Facoetti, A - 36.423, 36.437
- Fademrecht, L - **53.451**
- Fahle, M - 53.337
- Fajen, B - 21.13, **33.435**, 63.313
- Fajen, BR - 33.439
- Fallah, M - 23.423, 53.508
- Falvello, V - 56.544
- Familiar, A - **26.427**
- Fan, JE - 33.512, **53.331**
- Fan, X - **43.425**
- Fang, F - 26.428, 33.543, 43.402, 43.408, 56.321, 56.452, 56.581
- Fantoni, C - **26.320**
- Farell, B - **53.420**
- Farid, H - 53.555
- Farley, MA - 53.577
- Fast, E - **32.25**
- Fattori, P - **26.504**
- Faubert, J - 22.17, 26.423, 26.563
- Faulkner, ML - 33.510
- Fava, E - **26.303**, 56.536
- Feather, J - 53.429
- Federmeier, KD - 55.13
- Fedorov, L - **53.452**
- Fei-Fei, L - 42.22, 53.559, 55.13
- Feigenson, L - 31.25, 53.325
- Feldman, J - 23.336, 34.27, 43.310
- Feldmann-Wüstefeld, T - **53.515**
- Fenske, MJ - 43.544
- Fenton, R - 53.338
- Ferber, S - 33.582
- Ferrera, V - 36.320, 36.321
- Ferrey, AE - 43.544
- Ferwerda, J - **33.403**
- Fesi, J - 56.510, **61.25**
- Fetaya, E - 56.559
- Fickett, G - 26.408
- Fiedler, A - **53.541**
- Fiehler, K - **33.311**, 53.516
- Files, BT - **36.430**, 53.585
- Filipowicz, A - **43.573**
- Fine, I - 23.504, 53.587, 55.24, 63.432, S4
- Fink, G - 34.11
- Finlayson, G - 35.18, 43.428
- Finlayson, N - **53.302**
- Finn, ES - 36.327
- Firestone, C - **51.11**
- Fischer, J - 36.313, **63.427**
- Fiser, J - 26.580, 43.526, 53.345
- Fiset, D - 23.515, 23.563, 56.548, 56.549, 63.413, 63.425, 63.462, 63.464
- Fishman, M - 63.440
- FitzGerald, B - 53.338
- FitzGibbon, E - 33.428
- Fjeld, K - 26.506
- Flack, T - **63.401**
- Flake, K - 23.416
- Fleischer, F - S5
- Fleming, R - 43.303, 43.304, 51.15, **61.13**
- Fleming, RW - 33.407, 52.14, 54.14
- Fletcher, D - 36.408
- Fletcher, MA - 63.438
- Fletcher, P - 26.323
- Flevaris, A - **43.436**
- Flindall, J - **26.513**, 63.316
- Flombaum, J - 23.301, 23.548, 26.419, 41.26, 53.325, 63.343
- Flombaum, JI - 23.304
- Florendo, M - 26.523, **53.453**
- Foerster, RM - **23.424**
- Folk, C - **26.521**
- Fores, A - 33.403
- Forest, G - 23.563, 56.548
- Forestier, S - 36.349
- Forget, H - 63.425
- Forget, R - 26.423
- Formankiewicz, MA - 43.420, 56.502
- Forsman, L - 43.438
- Forster, S - **33.548**
- Forte, J - 33.541, 56.503
- Fortenbaugh, F - **33.531**
- Foster, C - 63.305
- Foster, J - 26.514
- Fougnie, D - **43.542**, 53.301
- Foulsham, T - 26.579, **43.341**
- Fox, E - **26.574**, 53.303
- Foxe, J - 36.316
- Franceschini, S - 36.437
- Francis, S - 53.414
- Franck, N - 63.416
- Franconeri, S - 26.565, 31.23, 43.443, 53.525, 53.533
- Franconeri, SL - 53.510
- Frank, D - 23.536
- Frank, S - **42.15**
- Fraser, L - **53.576**
- Freeman, J - S6
- Freeman, T - **33.432**
- Frey, H - 36.316
- Frey, S - 26.509
- Fried, M - 43.350, 56.335
- Friedman, K - 33.509
- Friewald, W - S2
- Frosst, N - 53.511
- Froyen, V - 23.333, 23.336, **34.27**
- Fründ, I - **26.335**
- Fu, G - 26.316, 33.571, 33.575, 63.460
- Fuda, C - 56.420
- Fujino, M - 33.514
- Fukuda, K - 23.314, 23.315, 33.405
- Fuller, G - 53.450
- Fulvio, JM - **26.414**
- Furlan, M - 53.458
- G**
- Gabay, Y - 63.457
- Gagin, G - 53.425
- Gagnon, I - 26.423
- Gahutu, J - 36.331
- Gajewski, DA - **23.528**
- Gall, M - 43.410
- Gallagher, R - **56.317**, 62.16
- Gallant, JL - 42.24
- Galletti, C - 26.504
- Gallie, B - 41.12
- Galmar, B - **56.528**
- Gambacorta, C - **36.410**
- Gamble, C - **33.306**
- Gan, L - 56.580
- Gannon, M - **36.322**, 36.401
- Gao, A - 56.513
- Gao, Q - 23.308
- Gao, T - **56.541**
- Gao, X - **43.502**
- Gao, Z - 23.308, **53.454**
- Garcia, J - **54.22**
- Garcia, S - **55.21**
- Gardner, JL - 36.317
- Garner, M - 63.405
- Garnier, M - **33.347**
- Garrigan, P - **26.326**
- Garrod, O - 63.402
- Garrod, OG - 63.403
- Gaspar, C - **43.407**
- Gaspar, JG - 33.537, 36.328
- Gates, M - 53.425
- Gauthier, I - 33.574, 33.577, 43.511, 43.512, 43.513
- Gautier, J - **43.338**, 56.438
- Gawne, T - **26.425**
- Gayet, S - **56.520**
- Gazzaniga, MS - 53.345
- Ge, L - 63.460
- Gee, B - 33.325
- Gegenfurtner, KR - 23.408, 24.14, 25.21, 33.410, 33.414, 33.415, 43.429, 43.560, 52.14
- Geisler, WS - 36.342, 54.11, S1
- Geng, J - 26.528, 53.512
- Georgian-Smith, D - 56.418
- Gepshtein, S - 26.336, 33.418, 43.442
- Gérard, L - 26.407
- Gerber, E - 36.325
- Gerbino, W - 26.320
- Geringswald, F - 53.318
- Germine, L - 33.546
- Ghadiyaram, D - **36.343**
- Ghahghaei, S - 25.13, 43.346, **56.423**
- Gharavi, K - 23.423
- Gharib, A - **36.426**
- Ghazizadeh, A - **33.502**
- Ghebreab, S - 43.576, 43.578
- Gheiratmand, M - 53.408
- Gheorghiu, E - **23.337**
- Ghloum, JK - **26.315**
- Ghose, T - 23.421, 23.438, 26.327, **26.331**, 26.332, 56.428
- Giammarco, M - **33.529**, 36.340
- Giaschi, D - 41.14

- Gibson, LC - 26.315
 Giesbrecht, B - 25.23, 33.503, 33.523, 33.530, 33.538, 63.461
 Giese, M - 24.22, 53.452, S5
 Giese, MA - **33.572**, 43.529
 Giguère, J - 26.423
 Gil-Gómez de Liaño, B - **53.305**
 Gilaie-Dotan, S - 56.324, **62.11**
 Gilchrist, A - **23.410**, 23.411
 Gill, D - **56.551**
 Gillam, BJ - **23.534**
 Gillen, C - **23.426**
 Gilmore, R - 26.304, 33.433
 Giovagnoli, S - **43.438**
 Girard, H - 61.24
 Giraudet, G - 36.431
 Gkioukelas, I - 61.12
 Glasser, DM - **33.423**
 Gleicher, M - 53.533
 Glennerster, A - 23.530, **23.535**
 Gliksmann, Y - **33.552**
 Gobbin, MI - 36.319
 Godwin, HJ - **56.416**, 56.427, 56.432
 Goffart, L - 33.443, **33.446**
 Golarai, G - 35.23, 42.26
 Gold, J - 26.322
 Goldfarb, L - **56.401**
 Goldhacker, M - 36.411
 Goldinger, S - 25.25, 53.553
 Goldstein, RR - 26.562, 53.507
 Goldzieher, MJ - **43.554**
 Golomb, J - **53.506**, 56.570
 Gomez, J - **35.23**
 Gomez, RL - 26.334
 Gomot, M - 63.326
 Goncalves, N - **53.414**
 Gong, M - 63.435
 Gong, X - 53.301
 Gonzalez, C - 26.513, 53.578, 63.316
 Goodale, M - 23.533, 23.580, 56.460
 Goodale, MA - 33.320, 52.14, 52.15
 Goodbourn, PT - 33.539, 33.551, **62.25**
 Goodhew, S - 26.402
 Goodhew, SC - **62.18**
 Goodman, R - **33.330**
 Goodsell, R - 26.514
 Goodyer, I - 26.323
 Gopnik, A - 41.16
 Gordon, B - 56.335
 Gordon, J - 53.430
 Gori, S - 36.423, **36.437**
 Gors, J - 36.319
 Gosselin, F - 23.515, 63.326, **63.459**
 Gottesman, C - **43.563**
 Gough, A - **26.534**
 Gould, D - 23.576
 Gouws, A - 63.401
 Gouws, AD - **36.311**
 Goyal, V - 36.337
 Gozenman, F - **63.340**
 Gozli, D - 33.307, 36.310, **43.524**, 53.513, 53.517
 Grabowecy, M - 26.503, 33.334, 53.588, 53.589, 55.23
 Gradden, T - 63.456
 Graf, E - 53.579
 Grant, AN - 25.16, 31.11
 Gratton, G - 31.14, 63.438
 Grauldy, C - **33.336**
 Gravel, N - 56.563
 Graves, T - **26.525**
 Gray, KL - **53.405**
 Greenberg, A - **53.539**
 Greene, H - **56.440**
 Greene, M - **55.15**
 Greening, S - 63.414
 Greenlee, M - 42.15
 Greenlee, MW - **36.411**, 43.410
 Grenfell-Essam, R - 43.341
 Grill-Spector, K - 23.579, 35.23, 35.26, 42.25, 42.26, 56.575
 Grinband, J - **36.320**, 36.321
 Griscom, W - 26.573, **53.448**
 Groen, I - **43.576**
 Gronau, N - **23.305**
 Grossman, E - 53.456
 Grossman, ED - 26.543
 Groth, A - **26.313**
 Grotheer, M - **56.586**
 Grove, P - 53.302
 Grubaugh, J - **53.551**
 Grubert, A - 36.315
 Gruss, LF - **36.414**
 Grzeczowski, L - **53.335**
 Guadron, L - **36.312**
 Guan, P - **53.415**
 Guerara-Flores, G - 56.403
 Guha, A - **61.23**, 62.21
 Guidetti, M - 33.347
 Guild, E - 36.340
 Guildenhuys, J - 43.509
 Guillory, S - 26.313, 36.425, **43.546**
 Gunseli, E - **42.16**
 Guo, Y - 51.12
 Gupta, A - 26.569, 41.15
 Gura, A - **43.569**, 43.570
 Gurariy, G - **23.554**
 Guttman, SE - **43.445**
 Guy, J - **36.419**
 Guyader, N - 26.567, 53.565
 Guzman-Martinez, E - 56.517
 Gwinn, RE - 26.516, **26.519**
 Gyoba, J - 33.326
H
 Ha, HV - 23.437
 Haak, K - 32.25
 Haas, J - 36.331
 Habekost, T - 33.533, 62.22
 Haberman, J - **61.22**
 Hackland, A - 56.537
 Hacopian, A - 26.501
 Hadad, B - **36.420**
 Hadjidimitrakakis, K - 26.504
 Hadley, H - **33.568**
 Hafed, Z - 43.332
 Hafed, ZM - 63.428
 Hagen, S - **56.557**
 Hagmann, CE - **43.555**
 Hahn, CA - **33.566**, 56.554
 Hahn, M - 55.28
 Hahn, PF - 43.527
 Hahn, W - **43.334**
 Hairol, MI - **43.405**, 43.420
 Hajnal, A - **63.318**
 Halberda, J - 31.25
 Halchenko, YO - 36.319
 Hale, RG - 43.564
 Halliday, D - 63.463
 Hallum, L - **36.433**
 Hallum, LE - 36.432, 36.434
 Hamazono, N - 35.12
 Han, B - **23.403**
 Han, E - 26.557
 Han, S - 54.24
 Hanif, H - 23.566
 Hanif, HM - 23.567
 Hanke, M - 53.318
 Hanrahan, K - 23.565
 Hanselaer, P - 23.406
 Hansen, BC - **33.341**
 Hanslmayr, S - 62.23
 Hansmann-Roth, S - **33.404**
 Hara, Y - 26.573
 Harada, D - **33.434**
 Harari, D - 56.559
 Harasawa, M - 53.320
 Harel, A - **43.510**
 Harland, B - 56.556
 Haroz, S - **53.313**
 Harris, H - **41.15**, 63.444
 Harris, IM - 43.554, 62.25
 Harris, JM - **53.416**, 56.308
 Harris, LR - 53.576
 Harris, R - 63.401
 Harrison, GW - **53.537**
 Harrison, W - **23.340**
 Harrison, WJ - 43.325
 Hart, D - 26.514
 Hartley, T - 53.567
 Hartmann, TS - 34.14
 Harvey, B - **55.18**
 Harwood, M - 43.321, **43.324**, 43.329
 Hashemi, A - **23.516**, 26.333
 Hashimoto, Y - **56.313**
 Haskell, CR - **26.539**
 Hassall, C - 23.427, 56.553
 Hatfield, M - **63.329**
 Hatori, Y - **23.343**
 Haxby, JV - 36.319
 Hayden, B - 33.520
 Hayes, D - 53.539
 Hayes, TR - **56.303**
 Hayhoe, M - 33.315, 36.407
 Hayhoe, MM - 21.15, 42.13, 56.426
 Haynes, J - 23.507
 Hays, J - **26.583**
 Hayward, W - 33.576, 43.509
 Hayward, WG - 56.439
 Hazan, B - **43.437**
 He, D - 43.402, **56.452**
 He, J - **36.328**
 He, K - 63.301
 He, L - **43.446**
 He, S - 23.571, 32.17, 43.425, 56.505, 56.506, 56.539
 He, X - 63.456
 He, Y - **56.334**
 Heath, M - 23.425, 23.426, 23.427
 Hedger, N - **63.405**
 Heeger, D - 36.403
 Heeger, DJ - 31.13, 41.15, 53.520, S6
 Heenan, A - **53.460**
 Heinen, S - **33.445**, 33.448
 Heinke, D - 43.517
 Heinz, A - **23.561**
 Heitz, R - 43.331, **52.16**
 Hellgren, K - 43.438
 Hemsteger, S - 53.314
 Hénaff, O - 56.583
 Henderson, J - 43.347
 Henderson, JM - 24.16, 36.303, 36.306
 Henik, A - 33.552, 33.553, 36.332
 Henriksson, L - 24.24
 Henry, M - **23.578**
 Heptonstall, B - **63.408**
 Herald, SB - **56.561**
 Herce Castañón, S - **43.567**, 54.21
 Herman, J - **33.516**
 Hermes, D - **63.450**
 Herwig, A - 56.429
 Herzog, M - 33.416, 53.335, 63.330
 Herzog, MH - 25.11, 43.403
 Hess, A - **53.310**
 Hess, R - 63.446
 Hess, RF - 36.438, 53.427, 63.439
 Hesselmann, G - 56.324
 Heyman, T - 56.515
 Heynderickx, I - 23.402
 Hibbard, P - 53.417, **56.407**
 Hibbard, PB - 56.308
 Higuchi, Y - **53.554**
 Hikosaka, O - 33.502
 Hilchey, MD - 56.433
 Hilimire, M - 33.511, **33.515**
 Hill, A - **23.586**
 Hill, MQ - **56.554**
 Hillis, JM - 53.444
 Hills, C - 23.566, **23.568**
 Hills, CS - 23.567
 Hillstrom, A - **43.504**
 Hillyard, S - 23.339
 Hillyard, SA - 22.24, 55.23
 Hindy, NC - **53.344**
 Hinrichs, RN - 33.321
 Hirsch, J - 36.320
 Hisakata, R - **33.429**, 33.430
 Ho, A - 62.17
 Hock, H - 33.427
 Hoehl, S - 33.564
 Hoffman, D - 23.414
 Hoffmann, J - 53.552
 Holcombe, A - **26.558**
 Holcombe, AO - 33.539, 33.551, 62.25
 Hole, G - 43.507
 Holliman, NS - 56.416
 Hollingworth, A - 53.527, 56.458
 Holloway, SR - **23.326**
 Holmes, T - **33.557**
 Holmin, J - **26.416**, 43.320
 Holmqvist, K - 43.337
 Holtan, V - **31.16**
 Holtmann-Rice, D - **33.412**
 Hong, H - **52.26**, S6
 Hong, SW - **23.407**
 Hong, Y - **26.516**
 Honjo, H - 53.502
 Hooge, IT - 23.401
 Hope, L - 43.504
 Horowitz, T - **53.319**
 Horstmann, G - **26.518**

- Horton, W - 26.503
Hossu, G - 35.26
Hou, C - **41.22**, 56.501
Houpt, J - 23.419, 26.574, **53.303**
Houpt, JW - 63.321
Hout, M - **25.25**, 53.553
Hout, MC - 56.427
Howes, A - 23.419
Hsiao, J - 43.514, 56.439, 56.585
Hsiao, JH - 23.572, 23.574, 56.528
Hsieh, P - 21.21, 41.24, 53.323, 56.509, 56.514
Hsu, A - 33.524
Hsu, P - **26.405**
Hu, Y - 53.339, 53.425
Huang, I - 53.404
Huang, P - **56.411**
Huang, S - 36.410, 53.403
Huang, X - **26.430**
Huang, Y - **41.24**, 56.411
Huber, E - **55.24**
Huber-Huber, C - **36.315**
Hubert-Wallander, B - **55.17**
Huffman, G - **33.307**
Huffman, H - 53.317
Huh, CY - **63.433**
Huk, AC - 26.435
Humphreys, G - 43.517
Humphreys, GW - 26.507
Hung, S - **56.514**
Hunter, D - **53.417**
Huntington, M - 53.589
Hupé, J - 33.347
Hurlbert, A - 35.18, **43.428**
Husk, J - 43.413
Hussain, Z - **56.319**
Hutchinson, JB - **23.544**, 63.323
Hutson, J - **43.342**
Huxlin, K - 36.404, 36.405, 56.320
Huybers, B - 26.583, 33.556
Huynh, C - 23.513, **33.573**
Hviid Del Pin, S - 56.422
Hymers, M - 26.438, 63.401
Hyun, J - 33.554, 53.311, 56.521, 63.334, 63.344
- I**
Iarocci, G - 36.424
Iarocci, M - 43.565
Ichikawa, M - **26.409**
Ichimura, K - 33.514
Ichiro, K - 53.502
Igarashi, T - 33.411
Ihssen, N - 23.555
Ikeda, T - 33.519
Im, HY - **53.325**
Ince, R - **53.568**
Inyutina, M - 56.318
Iordan, MC - **42.22**
Irons, JL - 63.456
Ishii, M - **23.527**, 53.423
Ishikane, H - 53.320
Islam, M - **23.585**, 63.324
Isola, P - 31.21, 43.301
Israel, M - **33.536**
Itier, R - 63.415
Itier, RJ - **23.514**
Itthipuripat, S - **36.329**, 53.503, 56.443
- Itti, L - 33.519, 43.344, 51
Ivory, S - 23.410, **23.411**
Ivry, R - 43.535, 56.455
- J**
Jabar, S - **53.505**
Jack, R - 56.551, 63.402
Jack, RE - 63.403
Jackson, S - **53.520**
Jacob, J - **43.547**, 43.548
Jacobs, RA - 43.348
Jacono, M - 26.502
Jacques, C - 35.26
Jaekl, P - **55.27**
Jahfari, S - **26.511**
Jain, A - **43.315**
Jalbert, M - 56.548
James, KH - 53.584
James, T - 56.565, 56.566
James, TW - 53.584
Jang, SH - 53.457
Janik, A - **63.409**
Janssen, CP - **25.26**
Jao, RJ - **53.584**
Jardine, N - 23.419
Jaworska, K - 56.534, **63.403**
Jayaraman, S - **26.317**
Jedynak, B - 53.325
Jeffery, L - **33.560**, 36.428, 43.505
Jehee, J - 63.430
Jennings, B - **53.435**, 63.445
Jeon, ST - 63.436
Jeong, SK - **53.545**
Jereen, A - 61.23, **62.21**
Jernigan, T - 61.24
Jeschke, J - **56.322**
Jew, CA - 56.574
Jia, K - **56.323**
Jiang, F - **53.587**
Jiang, M - **53.529**
Jiang, X - 23.509
Jiang, Y - 26.328, 26.545, 26.547, 32.26, 33.540, 35.14, **53.426**, 56.424
Jiang, YV - **23.316**
Jing, L - 23.521
Johannesson, O - 22.26
Johnson, A - 33.535
Johnson, J - 23.561
Johnson, JS - 23.313
Johnson, P - 23.414
Johnson, S - 53.336
Johnston, A - 33.429, 33.570, 56.310, 56.569, **62.13**
Jonas, J - 35.26
Jonathan, G - 24.17
Jonikaitis, D - 34.13, **41.21**
Joo, SJ - **26.435**
Jooper, R - 56.513
Joordens, S - 23.562
Joosten, ER - 33.572
Josephs, EL - **55.14**
Joshi, MR - **63.436**
Joulin, A - 42.22
Jovanov, K - **56.336**
Julian, JB - **26.570**
Jung, Y - 23.317, **56.523**
Juni, MZ - **56.404**
- K**
Kaczmarek, H - 33.537
Kaczmarek, HJ - 36.328
Kaderali, S - **26.426**
Kahn, DA - 23.505
Kaiser, D - **53.540**
Kaiser, R - **53.461**
Kakpovi, S - 53.543
Kakusa, B - 33.515
Kalampratsidou, V - **33.316**
Kaldy, Z - 26.313, 36.425, 43.546
Kallie, CS - 43.305, **43.306**
Kalpadakis-Smith, A - 36.350
Kamachi, MG - 33.434, **56.524**
Kamiya, S - **53.580**
Kanari, K - **23.404**
Kanazawa, S - 61.16
Kane, A - 52.17
Kane, D - **23.413**
Kaneko, H - 23.404
Kaneko, S - **33.430**
Kang, E - 23.310
Kang, M - 23.407, 56.523
Kanjlia, S - **43.551**
Kankanhalli, M - 23.443
Kanwisher, N - 23.503, 35.24, 53.429, 56.541, 63.427
Kao-Wei, C - **33.574**
Karuza, EA - **53.345**
Kasai, T - 23.573, 43.435
Kashino, M - 56.555
Kass, R - 56.574
Kastner, S - 23.329, 23.338, 36.326, 43.562, 53.563
Katkov, M - **63.444**
Katyal, S - **56.506**
Kauffmann, L - **26.567**, 53.565
Kaur, S - 43.405
Kawabe, T - **26.401**
Kawahara, J - 26.517, 26.522, 26.542, **56.552**
Kawato, M - 35.27
Kay, K - **42.25**, 54.26, 63.450
Kaye, K - 54.22, 56
Kaye, KE - **56.443**
Kazuhsa, K - 56.511
Keane, B - **23.329**, 23.338
Keane, T - 33.315
Keane, TP - 43.348
Keebler, J - 63.325
Keil, A - 33.513, 36.414
Keil, F - 26.418, 51.11
Keinath, A - 26.570
Kelkjaer, L - 33.533
Kell, A - 53.429
Keller, F - 22.25
Kellman, P - 23.335
Kellman, PJ - 26.327
Kelly, K - **41.12**
Kelly, KR - 55.22
Kelly, S - 23.324
Kelly, SD - 33.341
Kelly, SP - 36.312
Kendall, W - **36.341**
Kennard, C - 26.429
Kenny, S - **53.462**
Kerlin, JR - **62.23**
Kerrigan, I - 53.579
- Kersten, D - 26.437, 33.402, 43.406
Kerzel, D - 26.520, 56.456
Keshvari, S - **25.12**
Khaligh-Razavi, S - 34.21
Khan, A - 43.324
Khan, S - 53.547
Khoe, W - 53.455, 53.464
Khoei, MA - **33.422**
Khosla, A - **33.562**
Kidd, C - **33.520**
Kietzmann, TC - **23.511**
Kihara, K - **26.542**
Killebrew, K - **43.574**
Kim, C - 56.516
Kim, D - **32.22**, 53.341, **63.334**
Kim, G - **33.554**
Kim, J - 23.414, 51.12, 53.342
Kim, JG - 43.562, **53.563**
Kim, JH - 56.517
Kim, M - **43.433**
Kim, N - 53.457
Kim, S - **43.310**, 56.516
Kim, Y - **23.417**
Kim, YJ - 26.426, **53.408**
Kimchi, R - **24.23**, 43.440
Kimura, E - **53.437**, 56.508
Kingdom, F - 43.441, 53.406, 53.407, 53.435, 63.445
Kingdom, FA - 23.337, 43.515
Kingstone, A - 26.579, 36.341
Kiorpes, L - 26.307, 33.545, 36.432, 36.433, 36.434
Kistler, W - 26.422
Kit, D - 56.426
Kit, DM - 42.13
Kitazaki, M - **26.517**
Kitching, RE - 53.405
Kleene, N - **63.332**
Klein, B - **23.536**, 23.543, 55.18
Klein, RM - 56.433
Kleinsmith, AL - 53.509
Klingenhoefer, S - **34.14**
Klinghammer, M - 33.311
Kloth, N - **56.529**
Klyszejko, Z - **63.335**
Knight, RT - 36.325
Knill, D - 33.421
Knill, DC - 53.413
Kobayashi, H - **53.546**
Kogo, N - 23.318, **23.333**
Kohler, PJ - **63.448**
Köhler, S - S2
Kohrman, MH - 55.23
Koida, K - 35.15
Koldewyn, K - 36.422
Koller, K - **53.431**
Komatsu, H - 35.15
Kominsky, J - **26.418**
Kompaniez, E - **56.419**
Kondo, H - 26.542
Kong, D - 23.439
Kong, T - 63.438
König, P - 23.511, 26.582
Konkle, T - 23.577, **56.562**
Kording, K - 43.349
Kornblith, S - 42.23
Kornmeier, J - **56.507**
Kosovicheva, A - 43.575, 43.579, **56.408**, 56.412

- Koster, EH - 33.512
Kotseruba, Y - **33.526**
Kourtzi, Z - 56.331, 53
Kovalenko, L - **56.453**
Kovács, G - 56.586
Kozhevnikov, M - **23.541**
Kraft, J - 63.443
Kramer, A - 33.535
Kramer, AF - 33.537, 36.328
Krauzlis, R - 33.516, 33.517, 33.518
Kravitz, D - 23.501, 23.556, 43.510
Kriegeskorte, N - 24.24, 34.21, 52.23, 56
Krigolson, O - 23.427, **56.553**
Kristjánsson, Á - **22.26**, 33.501
Kroliczak, G - 26.508, **26.510**
Kruijine, W - **42.12**
Krügel, A - **23.435**
Krüger, H - **56.459**
Kuang, S - **33.440**
Kuang, X - 32.15
Kübler, A - 26.514
Kubovy, M - 43.442
Kucukoglu, G - **61.15**
Kulbokaitė, V - 53.441
Kumar, G - **23.446**, 43.401
Kumar, MK - **55.13**
Kumbhani, R - 36.433
Kumbhani, RD - **36.432**, 36.434
Kung, C - 23.506
Kunsberg, B - **43.304**, 54.14
Kunz, BR - 63.309
Kuo, C - 33.544
Kuo, R - 43.349
Kupitz, C - **56.570**
Kurematsu, K - 26.338
Kuriki, I - **26.432**
Kurman Petrozzelli, CI - 56.563
Kurylo, D - 56.322
Kurylo, DD - 43.437
Kusec, A - 56.527
Kuylen, C - **23.529**
Kvissberg, M - 43.326
Kwok, K - 26.578
Kwon, M - **26.309**, **53.402**
Kwon, O - **33.421**
Kwon, S - **26.336**
Kwon, T - **23.342**
Kyllingsbæk, S - **33.523**
- L**
Laeng, B - 56.543
Lafer-Sousa, R - 53.425, **53.429**
Lafortune, S - **56.549**, 63.462
Lai, J - 63.426
Lai, XJ - **56.501**
Lajous, M - 53.324
Lamb, DJ - 53.444
Lamme, V - 43.576
Lamy, D - 26.406, **36.338**
Landwehr, K - **43.525**
Landy, D - **43.552**
Landy, M - 36.403
Landy, MS - 56.409
Lane, T - 33.544
Lange, R - **53.445**
Langer, M - **23.526**
Langlois, T - **33.335**, 33.343
- Lanprier, S - 33.341
Lao, J - **53.572**
Lappe, M - 21.11
LaRocque, KF - 42.26
Larson, A - **26.581**, 43.343, 43.412
Larsson, L - 43.337
Lass, J - **26.333**
Lathrop, AA - 53.444
Latimer, KG - **56.309**
Lau, H - 26.412, 41.25
Laubrock, J - 56.434
Laurence, S - **43.507**, 56.531
Lavie, N - 33.548
Lawrence, B - **36.335**
Lawton, T - **36.314**
Layton, OW - **33.439**
Lazzouni, L - **23.328**
Le, A - 53.547
Le, R - **23.332**
Leber, AB - 26.516, 26.519
LeCun, Y - 56.583
Le Dantec, C - 53.343
Lee, AL - **43.530**
Lee, B - 24.15, 63.429
Lee, H - **53.586**
Lee, J - 41.13, **53.512**
Lee, K - 23.509, 26.316, 33.571, **33.575**, 56.532, 56.546, 63.460
Lee, M - **56.516**
Lee, S - **23.556**, 43.336, 43.406
Lee, TS - **34.22**, 43.313
Leeds, D - **56.572**
Leek, C - 52.22, 54.15, 56.564
Legge, G - 56.334
Lei, Q - 23.539, **53.442**
Leknes, S - 56.543
Leleu, A - **63.416**
Le Meur, O - 43.338
Lemon, CM - **33.431**
Lengyel, M - 43.526
Leopold, D - 34.26
Lescroart, MD - **42.24**
Lesmes, L - 23.546
Lester, B - **23.432**
Leung, CN - 23.574
Lev, M - 43.418, **43.421**, 56.324, 56.335
Levi, A - **56.320**
Levi, D - 36.410, 36.436, 53.401, **53.403**, 63.433
Levi, DM - 53.413
Levian, L - 56.335
Levin, D - 56.538
Levine, A - **26.438**
Levine, M - 43.404
Levkov, G - 23.430, 36.412
Levy, R - 33.519
Levy, Y - 56.335
Levy-Tzedek, S - 63.315
Lew, T - **31.22**
Lewicki, M - 56.414
Lewis, J - **26.527**, 36.307, 63.319
Lewis, R - 23.419
Lewis, T - **36.439**
Lewis, TL - 26.314
Lewis-Peacock, J - **51.23**
Li, A - 53.455
Li, AX - **26.523**
Li, C - **42.13**, 56.426
- Li, H - **23.521**
Li, J - 53.549
Li, L - **21.11**, 33.438, 63.301, 63.304
Li, S - 23.341, **26.575**, 26.576, 56.316, 56.323
Li, W - **23.537**, 53.333
Li, X - 26.529
Li, Y - **23.341**, 23.342
Li, Z - 23.536, **23.542**, 23.543, **54.17**
Liang, J - 53.337
Liao, H - **56.555**
Libenson, L - **53.407**
Liberman, A - 35.23, 42.26, **56.412**
Libertus, M - 31.25
Lichtenstein-Vidne, L - 33.553
Likova, L - **36.415**, 56.445
Lin, JW - 56.526
Lin, S - **53.534**
Lin, T - 33.544
Lin, Y - **43.416**
Lin, Z - **56.571**
Linden, DE - 23.555
Lindner, A - 43.529
Lindsey, D - 53.445, **53.446**
Ling, S - 23.511
Linsley, D - 53.561, **53.564**
Lisi, M - **56.448**
Lissner, A - 31.15
Liston, D - 33.419, **36.334**
Little, C - 56.437
Little, J - S4
Liu, J - **23.509**, 35.28, 43.514, **53.332**
Liu, L - **22.11**, 23.575
Liu, P - **63.406**
Liu, S - **43.531**, 54.24
Liu, T - **23.572**, **33.576**, 53.524
Liu, V - **33.541**
Liu, Y - 63.448
Liu, YQ - 26.577
Liu, Z - 33.424, **53.337**, 56.436
Liu-Shuang, J - **23.517**, 61.21, 63.448
Liverence, B - **31.23**
Liversedge, S - 56.556
Liversedge, SP - 56.416, 56.432
Livesey, EJ - 62.25
Livingstone, M - **26.306**, 42.21
Livshin, Z - 26.534
Lleras, A - 53.322, 53.326, 53.327, 53.535, **54.27**
Lockwood, P - 23.434
Loffler, G - S3
Loftus, D - 35.26
Logan, G - 43.532
Long, BL - **52.21**
Lonini, L - 36.349
Lopez, JA - 23.445
López-Moliner, J - 33.314, 33.322, **43.534**
Lorceau, J - **26.436**
Loria, T - 33.317, 33.330
Loschky, L - 26.581, 43.342, **43.343**, 43.412
Loschky, LC - 33.535
Losert, M - 26.420
Løseth, G - 56.543
Love, S - 33.327
Low, KA - 31.14, 63.438
Lowe, MX - **43.561**
Lowenhoff, A - 33.557
- Lu, H - 53.467, 56.519
Lu, S - 56.316
Lu, X - 53.454
Lu, Z - 23.330, 23.546, 33.425, 53.332, 54.24, 54.25
Luck, S - 26.309, 36.339
Luck, SJ - 43.551
Luczak, M - 43.412
Ludwig, K - **56.324**
Luigi Di Stasi, L - 23.440
Luke, SG - **24.16**, 36.303, 36.306
Lunau, R - **26.550**
Lung, T - 33.313, 33.317
Lunghi, C - **31.12**, 33.332
Lung'aho, M - 36.331
Luo, AX - 56.439
Luo, H - 26.541
Luo, Y - **21.25**
Lupo, J - **56.332**
Luria, R - 23.550, 23.551
Luu, L - 35.13, **53.432**
Lyu, C - **26.555**
- M**
Ma, L - 23.336
Ma, WJ - 22.15, **23.547**, 63.430
Ma, Z - **26.419**, 41.26
Ma-Wyatt, A - 36.408, **52.17**
MaBouDi, H - **36.346**
Mac, A - **43.515**, 63.418
MacDonald, S - 63.463
MacEvoy, S - **53.561**, 53.564
Machizawa, M - **53.341**
MacInnes, J - **53.443**
Mack, A - 36.302, 43.545
MacKenzie, L - 56.553
Mackiewicz, M - 35.18, 43.428
Macknik, S - 23.440, 23.444, 56.305
Macknik, SL - 23.445
MacLean, M - **33.503**, 33.555
MacLeod, D - 32.14
Maclin, EL - 31.14, 63.438
Macuga, K - **26.509**
Maddali, V - 36.328
Madelain, L - 33.441, **43.327**
Madipakkam, AR - **24.26**, 56.542
Madison, A - **53.326**
Magliano, J - 43.342, 43.343
Magnotta, V - 23.560
Magnotti, J - **61.26**
Mahadevan, M - **26.536**
Mahadzir, M - S1
Maidenbaum, S - **63.315**
Maiello, G - **43.325**
Maier, A - 34.26, 56.503
Maillard, L - 35.26
Majaj, N - 36.433
Majaj, NJ - 36.432, 36.434
Majmudar, U - 43.522
Makin, A - **26.556**
Makin, T - 56.579
Makooie, B - 53.576
Malcolm, G - **22.27**
Malek, N - **56.513**
Malfatti, M - **53.449**
Malik, P - **56.454**
Maloney, L - 43.433
Maloney, LT - 43.527, 61.15

- Mamassian, P - 32.24, 32.27, 33.404, 43.530, **55.26**
- Manassi, M - **25.11**
- Mance, I - **23.314**, 23.315
- Mandal, S - **56.428**
- Manh, V - 26.301
- Mann, CM - **23.436**
- Mann, D - **43.533**
- Manning, C - **36.421**
- Mannion, D - 43.406
- Mansfield, S - **23.565**
- Manson, G - 33.317, 33.330
- Manzone, D - **33.317**, 33.330
- Marathe, A - 23.587
- Marchette, SA - **55.16**
- Marco, J - 21.23
- Marcoux, J - 36.305
- Mareschal, D - 23.523
- Marino, R - **43.328**
- Marinoiu, E - **43.339**
- Marlow, P - **61.14**
- Marotta, J - 43.523
- Martin, J - **23.520**, 56.431
- Martin, K - 53.513
- Martinerie, J - 26.436
- Martinez, A - 23.339, **63.410**, 63.419
- Martinez, AM - 63.404
- Martinez, S - 23.444
- Martinez-Conde, S - 23.440, 23.445, 56.305
- Martinez-Trujillo, J - 23.557, 33.522, 56.513, 63.331
- Martini, P - 33.551, 62.25
- Maruya, K - 26.401, **33.437**
- Marvel, CL - 33.510
- Marx, S - **33.504**
- Masakura, Y - 26.409
- Mashita, T - 23.343
- Massendari, D - **43.330**, 43.333
- Masson, G - 33.441
- Masson, GS - 23.442, 33.422, 33.442
- Massot, C - 34.22, **43.313**
- Mast, F - 53.335
- Mathe, S - **23.431**
- Mathewson, KE - 31.14, 33.537, 36.328, **63.438**
- Mathison, J - 33.578
- Mathôt, S - **24.17**
- Matin, E - 23.537
- Matin, L - 23.537
- Matsumiya, K - 26.432, 53.502
- Matsumoto, T - **33.405**
- Matsuoka, S - 26.338
- Mattar, M - 56.525
- Mattar, MG - **23.505**
- Matthews, N - 26.552, **53.338**
- Matthis, J - **21.13**
- Matziridi, M - **34.16**
- Maurer, D - 26.314, 26.315, 33.558, 36.428, 36.439, 56.533
- Mauro, F - **23.327**
- Maurud, H - 56.543
- Maus, G - 36.313, **62.15**
- Mavica, L - **53.574**
- Max, R - **26.546**
- Maxcey, A - **23.306**
- Maxfield, J - **53.328**
- Maxwell, JA - **23.434**
- Mazalek, A - 56.336
- Mazyar, H - **23.447**
- Mazzarella, J - **43.303**, 43.311
- McAnany, JJ - 43.404
- McArthur, K - 43.544
- McBeath, MK - 23.326, **33.321**
- McCamy, M - **23.440**, 23.444
- McCamy, MB - 23.445
- McCann, BC - 54.11
- McCarthy, JD - **33.348**
- McCarthy, P - 43.427, **43.430**
- McCarthy, R - 63.455
- McCloskey, M - 26.419, **52.27**, 63.329
- McConnell, D - 63.319
- McCulloch, B - **33.546**
- McDermott, K - **32.27**
- McDevitt, E - **56.338**
- McDonald, S - 26.302
- McDonnell, G - **53.550**
- McDonnell, M - 33.413
- McDougall, T - **26.431**
- McDunn, BA - **43.564**
- McGill, M - 51.12
- McIntire, M - 26.302
- McKendrick, AM - 33.328
- Mckerral, M - 26.423
- McKetton, L - 55.22
- McKone, E - **63.456**
- Mckyton, A - 56.457
- McLelland, D - 53.324
- McMahan, B - **53.447**
- McNab, F - **63.341**
- McNair, SW - 63.403
- McOwan, P - 56.569
- Mednick, S - 56.338
- Meeter, M - 42.12, 42.16
- Mehler, B - 23.576
- Meier, K - **41.14**
- Melcher, D - 34.17, 43.444, 56.304, 56.312, **56.314**
- Melnick, M - **25.15**, 36.404
- Melnick, MD - 56.522
- Mély, DA - 23.332, **51.12**
- Mendola, J - **56.510**, 61.25
- Mendoza-Halliday, D - **23.557**
- Menendez, JA - **63.343**
- Menneer, T - 56.416, **56.427**, 56.432, 63.455
- Mennie, N - S1
- Mercer, ME - **63.437**
- Merritt, KE - **33.320**
- Mesik, J - **36.406**
- Meso, AI - **33.442**
- Messinger, D - 56.513
- Mestry, N - **63.455**
- Metoyer, T - 63.340
- Metzger, BA - **31.14**
- Mevorach, C - **36.323**, 36.429
- Meyerhoff, HS - **33.324**
- Michael, D - 53.443
- Michal, AL - **53.510**
- Michaux, A - 23.342
- Michel, M - 63.332
- Middlebrooks, P - **43.532**
- Mifflah, A - S1
- Mihelič, S - 23.528
- Mikellidou, K - **63.434**
- Milani, E - 26.320
- Miller, AJ - 36.328
- Miller, CE - **23.555**
- Miller, LE - 26.523, 53.453, **53.463**, 53.466
- Miller, P - **26.403**
- Miller, R - 53.583, **55.25**
- Milliken, B - 26.534
- Millington, R - S4
- Mills, M - **23.429**, 42.14, 53.551
- Milner, AD - 52.15
- Milojevic, Z - **33.414**
- Mingolla, E - 33.426, 43.571
- Minshew, N - 41.15
- Mintz, T - 56.561
- Miskovic, V - 33.513
- Mistry, D - 63.341
- Mitchell, D - 63.414
- Mizokami, Y - **43.431**
- Modir, S - 36.409
- Moehler, T - **53.516**
- Mohaban, D - 36.429
- Mohammadi Sepahvand, N - 23.334
- Mohan, S - 26.560, 26.561
- Mohd-Zaid, F - 26.574
- Mojica, A - 26.329
- Molholm, S - 36.316
- Molteni, M - 36.423, 36.437
- Momose, K - **26.433**
- Mondloch, C - 33.550, 43.507, 56.531, 56.537, 63.407
- Montagnini, A - 23.442, 23.448, **33.441**
- Montague-Johnson, C - 41.13
- Moore, C - 53.541, 56.458
- Moore, CM - 43.566
- Moors, P - **56.515**
- Morales, J - 26.412
- Morgan, M - **32.14**, 43.323
- Morgan, S - 56.406
- Morgenstern, Y - 53.412
- Morie, K - 36.316
- Morland, AB - 36.311
- Moro, SS - **55.22**
- Morrone, C - 26.502, 33.332
- Morrone, MC - **22.12**, 31.12
- Morrow-Jones, D - **43.331**
- Moscattelli, A - 21.12
- Moses, R - **26.327**
- Mostofi, N - **23.441**
- Motoyoshi, I - 26.404, 33.434, 36.345, **61.16**
- Motttron, L - 36.416, 36.417, 36.418, 36.419
- Moulson, M - 56.527
- Mounds, J - 33.511, 33.515
- Moutsiana, C - **23.322**
- Moutsopoulou, K - 43.519
- Movshon, JA - 36.432, 36.433, 36.434, **S6**
- Moyer, J - **53.531**
- Mruczek, R - **51.13**
- Muayqil, T - 23.569
- Muckli, L - 53.566, 53.572
- Mullen, KT - 26.426, 53.408, 53.427
- Müller, HJ - 21.26
- Mulligan, JB - **33.444**
- Mullin, C - **43.556**
- Mullins, P - 53.431
- Mulvey, F - **43.337**
- Munoz, D - 33.519, S1
- Mura, K - **26.332**
- Murakami, I - 26.537
- Murofushi, Y - 26.517
- Murohashi, H - 23.573
- Murphy, G - 23.582
- Murray, R - **32.11**
- Murray, S - 43.436, 56.571
- Murray, SO - 23.405
- Murray-Kolb, L - 36.331
- Muschter, E - 34.17
- Muzzio, I - 26.570
- Myers, C - **23.419**
- Myers, N - 21.22, 54.21
- ## N
- Nador, J - **43.409**
- Nagahata, M - **53.320**
- Nagle, F - **56.569**
- Nahum, M - 36.410, 36.436, 53.403
- Najafian, A - 23.444
- Nakayama, K - **21.16**, 23.577, 56.550
- Nakayama, R - **26.404**
- Nako, R - **53.536**, 53.548
- Nandy, A - 43.401
- Naparstek, S - **33.553**
- Naqvi, M - 26.560, **26.561**
- Narain, R - 23.525, 43.314, 61.11
- Nardini, M - **23.523**, 55.21, 63.305
- Naselaris, T - S6
- Nastase, SA - **36.319**
- Nath, P - 36.402
- Nawrot, M - 26.416, **43.320**
- Neath, K - **63.415**
- Neath, KN - 23.514
- Neggers, B - 56.444
- Neider, M - 26.527, 33.535, 36.307, 53.310, 63.319
- Neill, WT - **53.509**
- Nelson, N - **63.407**
- Nenert, R - 53.346
- Nesti, A - 26.420, **33.436**
- Nestor, A - **35.25**
- Neumann, H - 22.16, 53.329
- Neumann, M - **33.561**
- Neveu, P - 23.538
- New, J - **26.557**
- Newman, E - 61.24
- Ng, C - **53.412**, 53.420
- Ng, FY - 53.344
- Ng, K - 43.433
- Ng, MY - 56.509
- Ng, R - 33.561
- Nguyen, B - **63.314**
- Nguyen, E - **33.539**, **53.464**
- Nguyen, J - **43.522**
- Nguyen, M - 42.26
- Nguyen, TH - 36.431
- Ni, R - 33.547, 63.314
- Nicholas, S - 36.415, 56.445
- Niehorster, D - 21.11
- Niehorster, DC - **33.438**
- Nielsen, C - 33.508
- Nielsen, CS - **33.505**
- Niemeier, M - **53.547**
- Niemeyer, J - **24.11**
- Niesert, L - 33.312
- Nijboer, T - 33.345

- Nijhawan, R - 22.14
 Nikolaidou, E - 33.557
 Nir, G - **43.439**
 Nishida, S - 26.401, 33.409, 33.429, 33.437
 Nishimoto, S - 42.24
 Nitsche, M - 56.336
 Noah, S - **36.436**
 Noble, C - 26.503
 Nobre, A - 63.341
 Nooij, S - 26.420
 Noonan, S - 33.531
 Noory, B - 63.330
 Norcia, A - 22.13, 23.517, 23.518, 26.433, 26.434, **36.344**
 Norcia, AM - 26.307, 54.13, 63.448
 Nordfang, M - **53.306**
 Nordhjem, B - **56.563**
 Norman, J - **33.420**
 Norman, JF - **23.303**, 43.317
 Norman, K - 51.23
 Norton, EH - **56.409**
 Nothelfer, C - **53.525**
 Noyce, A - **53.530**
 Nunoi, M - 33.514
 Nussbaum, J - 36.348
- O**
 Oakes, L - 26.309
 Oakes, LM - 43.551
 O'Brien, J - 61.11
 O'Brien, JF - 23.525, 43.314
 O'Connell, T - **53.557**, 53.571
 Ögmen, H - 33.416, **63.330**
 O'Hare, L - 56.407
 Ohkubo, K - 56.524
 Ohl, S - 43.322, 63.339
 Oinonen, K - 33.449
 Okajima, K - 26.424, 33.411, 35.12
 Okumura, Y - **23.573**
 Oldmeadow, J - 56.545
 Olejarczyk, J - 36.303
 Oliva, A - 23.552, 31.21, 33.333, 33.562
 Oliver, ZJ - **52.22**
 Olivers, C - **31.24**
 Olivers, CN - 42.16
 Olk, B - **26.538**
 Olkkonen, M - 23.548, **43.427**, 43.430
 Olman, CA - 25.16, 26.437, **31.11**
 O'Neil, SF - **63.418**
 Olson, I - S2
 Olzak, L - **63.435**
 Omigbodun, A - 43.512
 O'Neil, E - S2
 Oosterhof, NN - 36.319
 Op de Beeck, H - 53.586
 Optican, L - 53.418
 Or, C - 63.461
 O'Rielly, J - 52.17
 Orlov, T - 56.457, **56.579**
 Orsten, K - 53.523, **53.556**
 Ortega, L - 56.517
 O'Toole, AJ - 33.566, 56.554
 Oruc, I - 36.424
 Osugi, T - **26.537**, 56.552
 Osuobeni, E - 43.419
 Otero-Millan, J - 23.440, 23.444
- Ouhmana, M - **43.441**
 Ouni, A - 53.430
 Overgaard, M - 56.422, 63.346
 Owens, DA - **43.538**
 Oxner, M - 33.576, 43.509
 Ozer, D - 36.413
- P**
 Pachai, MV - 23.516, **33.563**, 33.579
 Pack, C - 22.11
 Pack, CC - 33.423
 Paeye, C - **25.21**
 Paffen, C - **33.345**, 56.520
 Pailian, H - 26.525, **31.25**
 Pak, SS - **63.323**
 Palafox, G - 56.517
 Palermo, R - 33.561
 Pallett, P - 63.404, **63.419**
 Palm, BE - 23.316
 Palmer, E - 53.317, 63.325
 Palmer, S - **26.573**, 33.335, 33.343, 53.448
 Palmer, SE - 53.449
 Palmeri, T - 43.532
 Pan, S - 36.409
 Pancaroglu, R - 23.568
 Panichello, MF - **56.330**
 Pannasch, S - **56.435**
 Pantazis, D - 23.320
 Panzeri, S - 53.568, 63.402
 Paoletti, A - 36.340
 Paoletti, D - 56.430
 Papaioannou, O - 33.336
 Papandreou, G - 34.22
 Papatthomas, T - 23.532, 43.522
 Papava, D - 43.339
 Paquin, O - **56.548**
 Parade, M - 33.435, **63.313**
 Paradis, A - 26.436
 Paradiso, M - 24.11
 Parise, CV - **33.331**
 Park, H - **63.344**
 Park, S - 63.329
 Park, WJ - **26.337**
 Park, YE - **63.338**
 Parker, S - **52.24**
 Parks, N - 36.322, 36.401
 Parr, J - 41.13
 Parrott, S - **53.589**
 Parsons, B - **56.455**
 Pascalis, O - 33.575, 56.532, 56.546
 Pastukhov, A - **31.15**
 Pasupathy, A - S3
 Patel, P - **36.307**
 Patel, V - 26.560
 Paterno, D - 23.329, **23.338**
 Patey, R - 53.341
 Patterson, M - **43.549**
 Pauen, S - 33.564
 Paulun, VC - 33.407, **52.14**
 Pavan, A - **43.410**
 Pawar, A - **33.418**
 Pawlak, M - 26.508, 26.510
 Pearce, B - **35.18**, 43.428
 Peatfield, NA - **53.459**
 Peelen, M - **53.521**
 Peelen, MV - 43.562, 53.540
 Pegna, A - **56.564**
- Pegna, AJ - 52.22
 Pegors, T - **56.525**
 Pei, F - **26.434**
 Peirce, J - S3
 Peissig, J - **56.547**
 Pelli, D - 56.583
 Pelli, DG - 63.328
 Pellicano, E - 36.421
 Peltier, C - 26.526, **53.314**
 Pelz, JB - **43.348**
 Peng, D - **33.344**
 Perdreau, F - **23.307**
 Pereira, E - **26.577**
 Pereverzeva, M - **23.405**
 Perez Zapata, L - 21.23
 Perico, C - **26.563**
 Perrinet, L - 33.442
 Perrinet, LU - 23.442, 33.422, **56.582**
 Perrone, J - **33.419**
 Perrone, JA - 26.415
 Perrotta, S - **63.460**
 Perrotti, K - 26.563
 Persuh, M - **53.440**
 Pestilli, F - 35.23, **54.26**, 56.441, S4
 Petca, AR - 26.538
 Peters, A - 34.26
 Petersen, A - 33.505, 33.508, 33.542, 62.22
 Petersen, AH - **62.22**
 Peterson, D - 23.554
 Peterson, J - 33.335, **33.343**
 Peterson, M - 26.333
 Peterson, MA - 23.319, 23.323, 26.329, 26.330, 26.331, 26.332, 26.334, 43.340
 Peterson, MF - **63.461**
 Peterson, MS - 63.327
 Petridou, N - 55.18
 Petrie, K - 62.16
 Petrini, K - 33.327, 55.21, **63.305**
 Petro, L - 53.566
 Petro, N - **33.513**
 Petrov, AA - 23.545, 56.303, 56.415, **63.336**
 Petrov, Y - 43.409
 Petrovski, S - 33.560
 Peykarjou, S - **33.564**
 Peyrin, C - 26.567, 53.565
 Philbeck, JW - 23.528
 Phillips, F - 43.303, **43.311**
 Phillips, PJ - 33.566
 Piano, ME - **36.435**
 Pianta, MJ - 33.328
 Pichat, C - 53.565
 Pickron, CB - 33.568, **56.536**
 Pickup, LC - 23.530
 Pieper, F - 33.522
 Piepers, DW - **33.583**
 Pilz, K - 53.539
 Piponnier, J - **26.423**
 Pitcher, D - **63.411**
 Pitts, M - **23.339**, 33.336
 Pizlo, Z - 23.342
 Plank, T - 36.411
 Plant, G - 23.322
 Plass, J - **53.588**
 Plaut, D - 35.25, 63.457
 Plummer, JP - **33.547**
 Pokorny, J - 43.424
- Pokroy, R - 56.335
 Polat, U - 43.350, 43.418, 43.421, 56.324, 56.335
 Poletti, M - **24.13**
 Pollick, F - 33.327, **53.457**
 Pollmann, S - **53.318**
 Poltoratski, S - 23.511
 Pomerantz, J - **53.523**, 53.556
 Pomper, J - S5
 Pomplun, M - 43.543, 43.546, 56.421, 56.425
 Poncet, M - **23.584**, 43.541
 Pond, S - 43.509
 Pont, S - 23.402, **33.408**, 43.302
 Pont, SC - 23.401
 Porat, Y - **56.457**, 56.579
 Postle, BR - 43.553
 Potapchuk, E - 33.445
 Poth, CH - **33.542**
 Potter, MC - 43.555
 Prado, EC - 56.443
 Pratt, J - 23.434, 26.405, 33.307, 36.310, 43.524, 53.315, 53.513, 53.517
 Pratte, M - **32.16**, 56.576, 63.430
 Press, C - **43.535**
 Presson, AN - 43.552
 Pretto, P - **26.420**, 33.436
 Prime, S - 43.523
 Prime, SL - 33.344, 53.575
 Prins, N - **56.402**
 Prinzmetal, W - 53.313
 Priot, A - **23.538**
 Pritchett, L - 32.11
 Przybylski, L - **26.508**, 26.510
 Ptiito, A - **26.549**
 Pucek, R - 52.17
 Pugh, B - 23.576
 Pulumo, R - 53.425
 Puntiroli, M - **56.456**
 Puri, A - 23.302, **36.422**, 43.579
 Purington, C - 31.11, 36.430, 53.585, 63.421
 Purushothaman, G - 53.426
 Purves, D - 53.412
 Pyles, J - 43.317, 56.572
 Pyles, JA - **56.573**
 Pylyshyn, ZW - 26.561
- Q**
 Qi, J - **56.560**
 Qi, Y - **26.529**, 36.333
 Qian, C - **56.436**, 56.580
 Qian, J - **56.413**
 Qian, N - 54.17
 Qiao, G - 41.14
 Qin, J - 63.460
 Qiu, C - **26.437**, 31.11
 Qu, J - 53.425
 Quaia, C - 33.428, **53.418**
 Quehl, N - 23.334
 Quiang, B - 53.523
 Quinet, J - 33.443, 33.446
 Quinn, P - 33.571, 33.575, 56.546, 63.460
 Quinn, PC - **56.532**
 Quirós, M - 53.305
 Quirós, P - 23.445

R

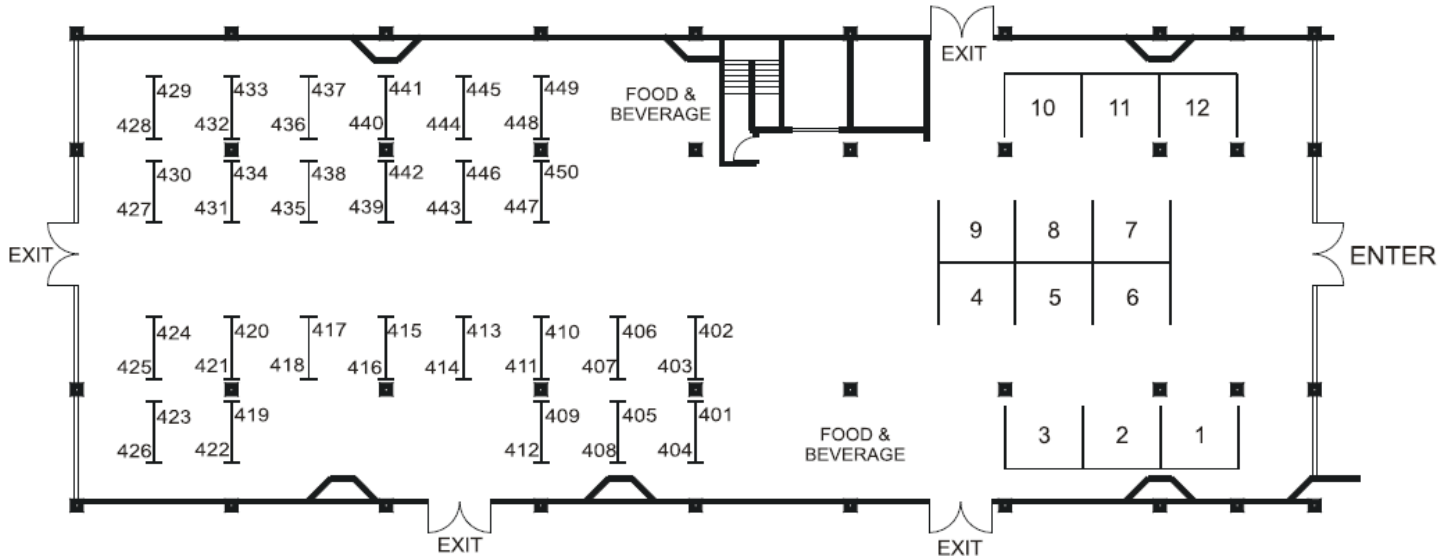
- Radassao, K - 43.565
 Rademaker, R - 63.338
 Radonjić, A - 35.18, **43.432**
 Rafal, R - 53.431
 Raffone, A - 23.327
 Rafique, S - **53.562**
 Rahmati, M - 63.335
 Raidvee, A - **36.304**
 Rainey, H - **56.568**
 Rajalingham, R - **23.583**
 Rajimehr, R - **42.23**
 Rajsic, J - **53.315**, 53.537
 Ramachandran, V - 53.588
 Ramamurthy, M - **53.504**
 Ramanogl, S - 26.567, **53.565**
 Ramon, M - **43.503**
 Ramirez, F - **23.507**
 Ransley, K - 26.402
 Rapp, B - 52.27
 Rashal, E - 43.411, **43.440**
 Rashford, S - **43.577**
 Ratcliffe, V - 43.507
 Raudies, F - **26.304**
 Ravaliya, J - 43.522
 Ravizza, SM - 26.526
 Raymond, J - 23.311, **33.506**
 Raymond, JE - 62.23
 Read, JC - 63.424
 Reagh, ZM - 23.304
 Reavis, E - 42.15
 Reby, D - 43.507
 Recker, J - 33.403
 Red, S - **26.501**
 Redden, RS - **56.433**
 Reddy, L - 32.23
 Reed, SA - **53.577**
 Rees, G - 24.24, 26.429, 26.533, 53.466
 Reeves, A - **23.539**, 43.409, 53.442
 Regener, P - **33.327**
 Rehn, E - 24.26
 Reich, L - 53.581
 Reichert, D - 52.24
 Reijnen, E - **53.552**
 Reimer, B - 23.576
 Reingold, E - 23.420
 Reinhart, R - **36.330**
 Renken, R - 56.563
 Ress, D - **53.585**
 Retell, J - **56.310**
 Retter, T - **33.581**
 Rettie, H - 54.15
 Reyes, MB - 56.302
 Reynaud, A - 26.426, **63.446**
 Rezlescu, C - 33.559, 63.409
 Rhodes, G - 33.560, 33.561, 36.428, 43.505, 43.509, 56.529
 Rhoten, S - **36.331**, 56.329
 Richards, M - 33.449
 Richler, J - 33.574
 Rickard, T - 36.409
 Ridder, III, W - **23.437**
 Ridder, S - 23.437
 Ridderinkhof, KR - 26.511
 Rideaux, R - **26.421**
 Riegels, J - 56.543
 Rieiro, H - **56.305**
 Ries, A - 23.587
 Riesen, G - 33.426, **43.571**
 Riesenhuber, M - 23.520
 Riggall, AC - **43.553**
 Riggs, CA - **56.432**
 Rilee, JJ - 33.510
 Ringer, R - 43.412
 Ringer, RV - **33.535**
 Rio, KW - **63.312**
 Rios, F - 23.445
 Ripamonti, C - 35.11
 Ritchie, JB - **52.25**
 Rivera, S - **26.305**
 Rizvi, SM - **36.351**, 36.352
 Rizzo, M - 23.432
 Ro, T - 36.302, 53.440, 53.573
 Robbins, RA - 33.583
 Roberts, M - 33.545, 36.404, 56.564
 Roberts, MV - 52.22
 Roberts, TL - 26.301
 Robertson, L - 43.579
 Robinson, K - 56.549, **63.413**
 Rodgers, J - 36.311
 Rodriguez, A - **56.315**
 Rodriguez-Jimenez, R - 63.424
 Rodriguez-Torresano, J - 63.424
 Roelfsema, P - 53.329
 Rogers, C - 23.303
 Rogers, J - 26.417
 Roggeveen, A - 53.539
 Rohde, M - **52.12**
 Rokem, A - 54.26, **63.431**, 54
 Rokers, B - 26.414
 Rolfs, M - 22.21, 34.13, 43.322, **63.339**
 Romanska, A - 33.559
 Romero, C - **53.316**
 Romero-Ferreiro, V - 63.424
 Ronconi, L - **36.423**
 Roper, Z - **33.507**
 Roque, N - **53.542**
 Rorden, C - 36.306
 Rosen, M - **63.319**
 Rosen, ML - 26.414
 Rosenberg, M - 33.531
 Rosenberg, MD - **36.327**
 Rosenblum, L - 33.342
 Rosenblum, LD - 33.339, 56.337
 Rosengarth, K - 36.411
 Rosenholtz, R - 25.12, **25.14**, 36.308, 53.321
 Roser, ME - 53.345
 Ross, D - **33.577**
 Ross, L - 53.346
 Ross, NM - **43.520**
 Rossion, B - 23.318, 23.517, **23.518**, 33.565, 33.581, 35.22, 35.26, 41.11, 61.21
 Rossit, S - **33.318**
 Rothkirch, M - 24.26, **56.542**
 Rothkopf, C - 36.349
 Rothlein, D - 52.27
 Roumes, C - 23.538
 Rousselet, GA - 56.534, 63.403
 Rowland, B - **53.583**, 55.25
 Rowland, E - **56.306**
 Royer, J - 23.563, 56.549, 63.413, **63.462**
 Rubin, G - 55.21
 Rubino, C - 23.428, **23.567**, 23.568
 Rucci, M - 23.441, 24.12, 24.13, **32.15**
 Ruda, H - **33.426**, 43.571
 Rudd, M - **23.409**
 Ruff, DA - 35.16
 Ruffino, M - 36.437
 Russell, K - 36.402
 Rutherford, M - 36.428
 Ryan, J - 55.16
 Ryan, K - **43.513**
 Ryckaert, WR - 23.406
- S**
 Saavedra, C - 56.547
 Saber, G - 56.441
 Sachs, A - 33.522
 Sackur, J - **26.553**
 Sadeh, B - **36.325**
 Saenz, M - 54
 Saez, C - 23.445
 Safadi, Z - 33.553
 Sagi, D - 41.15, 63.444
 Sahnoud, H - 53.430
 Saiki, J - **23.558**, 53.554, 63.311
 Saint-Amour, D - 23.328, 33.346, 36.417
 Saito, Y - **63.308**
 Sajad, A - 43.328
 Sakai, K - 23.343, **26.338**
 Sakurai, K - **26.325**, 63.308
 Salasc, C - 23.538
 Sali, AW - **26.540**
 Sali, ME - 36.437
 Sall, R - 26.530
 Salvagio, E - **26.334**
 Samaras, D - 26.571
 Sanchez-Panchuelo, R - 53.414
 Sandini, G - 26.502
 Sanguinetti, JL - **23.323**
 Sanik, K - **43.309**
 Sanocki, T - 23.585, **36.301**
 Santos, EM - **33.447**
 Santos, KM - 56.302
 Sapir, A - **26.535**
 Sareen, P - **26.568**
 Sarwar, S - 43.310
 Sarwate, A - 23.532
 Sasaki, Y - 32.22, 35.27
 Sato, H - **36.345**
 Sato, S - **26.522**
 Sato, T - 26.404, 36.345, 43.423
 Sauer, J - 43.504
 Saulton, A - **43.536**
 Saunders, J - **33.303**, 33.304
 Saunders, R - 34.26
 Saura, L - 43.543
 Savage, T - 26.306
 Saville, A - **23.513**
 Sawada, T - **56.415**
 Sawaki, R - **23.311**, 33.506, 63.342
 Sawayama, M - **33.409**
 Saxe, R - 23.503
 Saygin, AP - 26.523, 53.453, 53.455, 53.463, 53.464, **53.466**
 Saygin, Z - **35.24**
 Scalf, P - **41.25**
 Scalf, PE - 23.319, 26.507
 Scarfe, P - 62.13
 Scerif, G - 53.548
 Schaal, B - 63.416, 63.417
 Schall, J - 33.521, 43.331, 52.16, 56.444
 Schallmo, M - **25.16**, 31.11
 Scheessele, M - 23.342
 Scheid, S - **43.442**
 Scheirer, W - 56.550
 Schelske, YT - 23.421, **23.438**, 56.428
 Scherf, KS - 56.544
 Scherf, S - 63.463, 54
 Scherzer, TR - 51.14
 Schill, MT - 63.321
 Schiller, F - **33.415**
 Schlangen, D - **56.558**
 Schloss, KB - 53.449, **62.12**
 Schluppeck, D - 53.414
 Schmalhofer, C - 36.411
 Schmid, A - **33.401**
 Schmid, M - 34.26
 Schmidt, J - 24.16, **36.303**, 36.306
 Schmidt, K - 23.583
 Schmidt, L - 36.439
 Schmidt, LJ - 26.524
 Schmidtman, G - **63.445**
 Schneider, WX - 23.424, 33.542, 56.429
 Schneider-Garces, N - 63.438
 Schnyer, DM - 23.323
 Scholl, B - 26.324, 33.324, 53.468
 Scholte, H - **43.578**
 Scholte, HS - 23.559, 26.511
 Scholte, S - 43.576
 Schubert, T - 52.27
 Schubö, A - 53.515
 Schultz, J - 63.454
 Schumacher, JF - **53.444**
 Schurgin, MW - **23.304**
 Schwarzkopf, DS - 23.322, 24.24
 Schyns, P - 43.556, 53.568, 56.551, 63.402
 Schyns, PG - 56.534, 63.403
 Schönwiesner, M - 53.461
 Schütz, A - 25.21
 Schütz, AC - **33.534**
 Schütür, F - **43.527**
 Scolaro, M - **36.326**
 Scott, L - 26.303
 Scott, LS - 33.568, 56.536, 56.557
 Scott-Samuel, N - 53.465
 Sebastian, S - **36.342**
 Sederberg, PB - 56.303
 Segev, R - 53
 Segraves, M - **43.349**
 Seidl-Rathkopf, KN - **43.562**
 Seifert, M - **33.427**
 Seitz, A - 36.413, 53.334, 53.343
 Sekular, AB - 26.410
 Sekuler, A - 26.321, 26.333, 53.539
 Sekuler, AB - 23.516, 33.563, **33.579**, 56.504, 56.535
 Sekuler, R - 53.530
 Self, E - 53.316, 56.315
 Sen, D - **23.443**
 Sengupta, R - **56.312**
 Senoussi, M - **32.23**
 Serences, J - 36.329, 51.24, 53.503, 54.22, 56.325
 Serences, JT - 51.21, 56.443

- Sereno, A - 26.501
 Sereno, MI - 23.322
 Serger, A - **53.571**
 Serrano-Pedraza, I - **63.424**
 Serre, T - 23.332, 51.12, 52.24, **55.12**, 63.307
 Sewell, D - 33.541
 Shachar, M - 23.305
 Shafai, F - **36.424**
 Shafer-Skelton, A - **43.557**
 Shafiullah, S - 33.417
 Shah, M - 24.21, 43.538
 Shah, MP - 56.561
 Shah, P - 33.570
 Shah, R - 62.13
 Shaked, D - 56.320
 Shalev, L - **36.429**
 Shalev, N - 36.338, 36.429
 Shalevl, L - 36.323
 Shannon, RW - 53.444
 Shapiro, A - **26.422**
 Shapiro, K - 63.341, **63.342**
 Shapiro, KL - 23.555, 23.559, 62.23
 Shapley, R - 53.430
 Sharan, L - **36.308**
 Sharma, R - 36.337
 Sheldon, C - 23.568
 Sheliga, B - **33.428**, 53.418
 Shen, C - **23.439**, 23.443
 Shen, D - 55.11
 Shen, H - **43.406**
 Shen, L - **43.434**
 Shen, M - **23.308**, 53.454
 Shen, Y - 56.331
 Shepard, TG - 53.434
 Sheppard, PA - 63.437
 Sheremata, S - **63.333**
 Sheridan, H - **23.420**
 Sherman, A - **26.503**
 Sherman, AM - **26.564**
 Sheth, B - **23.325**
 Shevell, S - 53.409, 53.438, 53.439
 Sheynin, J - 56.512
 Shi, B - 36.349
 Shi, J - 33.440
 Shi, L - 26.575, 26.576
 Shibata, K - **35.27**
 Shields, S - 56.529
 Shigemasu, H - 43.308
 Shim, WM - 26.427, 51.22
 Shimazaki, H - 36.346
 Shimizu, M - **56.508**
 Shimojo, E - 36.427
 Shimojo, S - 36.426, 36.427, 56.555
 Shimonio, M - **56.511**
 Shin, A - 24.27
 Shin, Y - **56.521**
 Shioiri, S - 26.432, **53.502**
 Shirasuna, Y - 33.514
 Shoda, M - 63.306
 Shomstein, S - 22.27, 53.543, 53.544, 63.333
 Shooper, C - 36.432, 36.433, **36.434**
 Shore, D - 26.534
 Shore, DI - 26.314
 Short, L - **56.537**
 Shoval, R - 33.532
 Shui, R - 23.308, 53.454
 Shukla, A - 56.314
 Shukla, M - 43.546
 Shuwairi, S - **23.582**, 56.568
 Shyi, GC - **56.526**
 Siciliano, R - 23.526
 Siderov, J - 43.419, 56.438
 Siefke, BM - 56.303
 Silva, AE - **33.424**
 Silver, M - 56.512, 63.431, 63.433
 Silverstein, S - 23.329, 23.338
 Sim, MQ - 43.549
 Simard, M - 33.346, 36.417
 Simmers, AJ - 36.435, 63.436
 Simmons, DC - 33.339, **56.337**
 Simoncelli, EP - 56.409, S6
 Simoncini, C - **23.442**, 33.442
 Simons, D - 26.559
 Singh, M - 23.336, 34.27, 43.309, 43.310
 Singh, N - 26.560, 26.561
 Siva, N - **53.317**
 Skerswetat, J - **56.502**
 Skiba, R - 23.309
 Sligte, IG - **23.559**
 Slonim, D - 52.27
 Sloutsky, V - 26.305
 Slugocki, M - **26.321**
 Smallwood, J - 26.533
 Smeets, JB - 34.16, 52.11
 Smet, KA - 23.406
 Sminchisescu, C - 23.431, 43.339
 Smith, D - **63.325**
 Smith, F - **63.414**
 Smith, GL - 63.437
 Smith, H - **36.425**
 Smith, J - **26.417**, 33.340
 Smith, KA - **43.537**
 Smith, L - 23.433, 26.317
 Smith, M - **24.25**
 Smith, MA - **63.327**
 Smith, ME - 42.26
 Smith, RT - 33.545
 Smith, T - 43.342, 43.343
 Smith, TJ - 24.16, **33.338**, 53.536
 Snow, J - 23.309, **23.580**, 23.581
 Snyder, K - **36.407**
 So, R - 63.317
 Sobel, K - **23.302**, 36.422
 Sofer, I - 55.12
 Soliman, R - 23.322
 Sollfrank, T - **26.514**
 Solman, G - **26.579**
 Solomon, E - 52.26
 Solomon, J - **63.443**
 Solomon, SH - 23.321
 Solomon-Harris, L - 53.562
 Solomon-Harris, LM - **23.510**
 Soltanian-Zadeh, H - 36.346
 Solé Puig, M - 21.23
 Song, C - 53.466
 Song, J - 33.306, **43.539**
 Song, K - **26.541**
 Sood, SK - 36.337
 Soon, CS - 53.323, **56.509**
 Sørensen, TA - **63.346**
 Sormaz, M - **63.412**
 Spence, M - **33.580**
 Spencer, J - 23.560
 Sperandio, I - **23.533**
 Sperling, G - **33.524**
 Spinelli, D - 26.502
 Spitschan, M - **35.13**, 53.432
 Spivey, MJ - 56.428
 Spotorno, S - **23.448**
 Sprague, T - **53.503**, 54.22
 Sprague, TC - 56.443
 Sprague, W - **54.12**
 Spröte, P - **51.15**
 Srihasam, K - 26.306, **42.21**
 Srinath, A - 26.322
 Srinivasan, R - 53.456
 Srivastava, A - **36.337**
 St. John-Salltink, E - 41.25
 Stanikūnas, R - **53.441**
 Stankiewicz, BJ - 53.444
 Stanley, J - **56.503**
 Staugaard, CF - 63.346
 Stecker, G - 53.587
 Steeves, J - 41.12, 53.562
 Steeves, JK - 23.510, 55.22
 Stein, B - 53.583, 55.25
 Stein, T - 53.521, 53.540
 Stepien, N - **53.438**
 Sterkin, A - 43.418, 43.421, **56.335**
 Sterzer, P - 24.26, 56.324, 56.542
 Stevens, CJ - 33.583
 Stevenson, S - 26.536
 Stevenson, SB - 33.444
 Stigliani, A - **23.579**
 Stocker, A - 23.331
 Stockman, A - **35.11**
 Stoettinger, E - **23.334**
 Stolarova, M - 26.312
 Stone, K - 26.513, **53.578**
 Stone, L - 33.419, 36.334
 Stone, M - 53.447
 Storrs, K - **23.524**, 33.580
 Stothart, C - **26.559**
 Stoughton, C - 53.425
 Street, WN - **33.537**
 Streuber, S - S5
 Strickland, B - 26.418
 Striemer, C - **36.402**
 Strother, L - **23.570**, 26.411, 53.569
 Stroyan, K - 43.320
 Stuit, SM - 31.16
 Störmer, VS - **22.22**, 51.25, 52.21
 Su, C - **36.347**
 Su, J - **56.519**
 Subramaniam, N - 26.323
 Suchow, JW - **31.26**
 Sugden, N - **56.527**
 Sullivan, B - **43.346**
 Sullivan, P - 41.13
 Summerfield, C - 21.22, 43.567, 54.21
 Sun, H - 26.575, 26.576, **33.406**, **43.565**, **56.318**
 Sun, SZ - **33.582**
 Sun, X - 32.17
 Sun, Y - 33.575, **56.546**
 Supèr, H - **21.23**
 Susilo, T - 33.559, 63.409, 63.453
 Sutherland, C - **56.545**
 Sutterer, D - **63.337**
 Sutton, BP - 63.438
 Suzuki, H - 35.15
 Suzuki, S - 26.503, 33.334, 53.588, 53.589, 55.23
 Suzuki, T - **23.421**
 Švegžda, A - 53.441
 Swallow, K - **33.540**, 56.424
 Swan, G - **23.549**
 Swanbeck, S - 53.425
 Sweeny, T - **41.16**
 Sy, J - 26.551, 32.16, **53.522**
 Szaniawski, M - 43.302
 Szinte, M - **34.13**
 Szpiro, S - 56.326, **56.327**
- ## T
- Tabbane, K - 56.513
 Tadin, D - 25.15, 26.337, 33.421, 33.423, 36.404, 36.405, 55.27, 56.320, 56.522
 Taich, Z - 53.588
 Tajima, CI - 35.15
 Tajima, S - **35.15**
 Takahashi, A - 53.429
 Takemura, H - 54.26, S4
 Takeshima, Y - **33.326**
 Takeuchi, T - 26.424, 26.542
 Takeya, R - **43.435**
 Tam, D - 43.443
 Tan, CH - 63.438
 Tan, JH - **21.21**
 Tan, M - 36.309
 Tan, Q - **53.342**
 Tan, T - 26.514
 Tanaka, J - 43.506, 56.546, 56.557, 61.21, 63.408, **63.463**
 Tanaka, JW - 56.532
 Tandonnet, C - 43.330
 Tang, H - 53.573
 Tang, N - 23.308
 Tang, Y - 63.446
 Tanoue, RT - 63.340
 Tanrikulu, ÖD - **23.336**
 Tanzer, M - S2
 Tao, JX - 26.503, 55.23
 Tapia, E - 31.14, **53.535**
 Tardif, J - 56.549, **63.464**
 Tarduno, JA - 43.348
 Tarr, M - 26.569, 53.558, 56.572
 Tarr, MJ - 56.573, 56.574
 Tartaglia, E - 53.335
 Tas, C - **56.458**
 Tastl, I - 33.403
 Taubert, J - **35.22**
 Taylor, E - **36.310**
 Taylor, JE - 23.434
 Tcherassen, K - 41.12
 Tebbe, H - 26.581
 Teeter, C - 43.565
 Teichert, T - 36.320, **36.321**
 Tenenbaum, J - 56.541
 Tenenbaum, JB - 43.537
 Teng, C - 33.544
 Tenhundfeld, N - **33.301**
 te Pas, S - 33.408
 te Pas, SF - **23.401**
 Teufel, C - **26.323**
 Teulière, C - 36.349
 Thair, H - 33.557
 Thaler, L - **33.325**
 't Hart, BM - S1
 Theeuwes, J - **26.524**, 31.24
 Thengone, DJ - 36.352

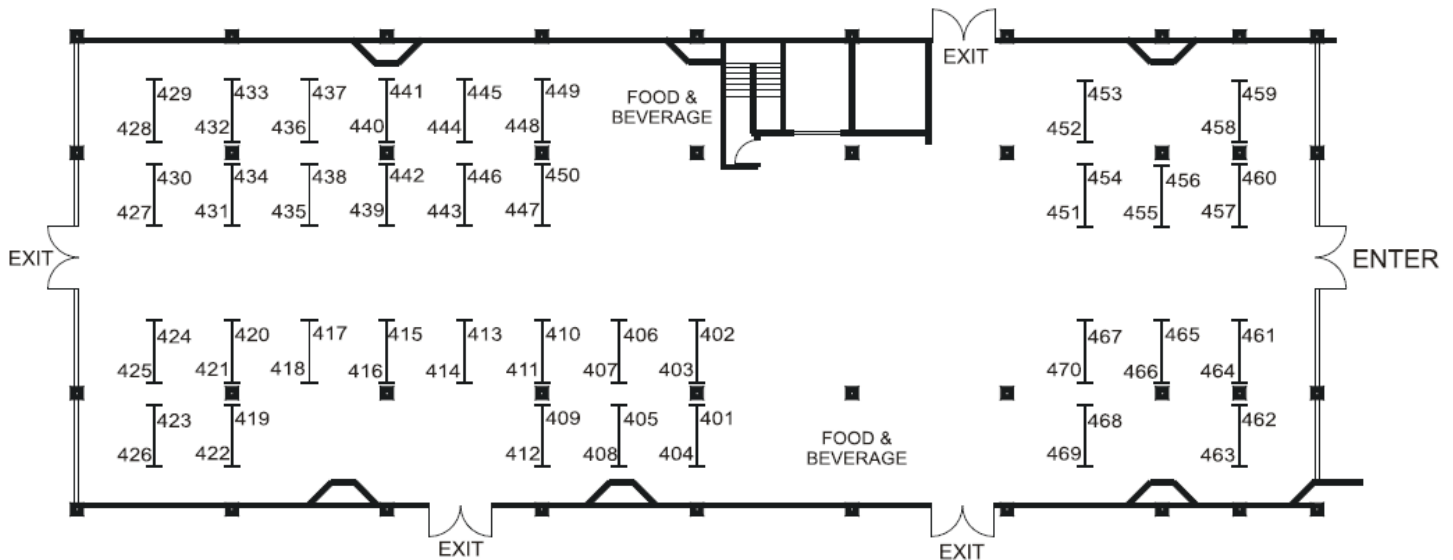
- Thielen, JA - 53.444
 Thiemann, C - 56.570
 Thirkettle, M - 53.465
 Thomas, A - **33.433**
 Thomas, C - 54
 Thomas, J - 55.24
 Thomas, JM - **63.432**
 Thomas, L - 23.529
 Thomas, S - 63.426
 Thomason, K - 23.303, 43.317
 Thompson, B - 53.427
 Thompson, J - 56.311, 63.303
 Thompson, P - 63.434
 Thompson-Schill, SL - 23.321
 Thomson, N - 53.416
 Thomson, S - 33.529
 Thornton, IM - 22.26
 Thorpe, M - 63.408
 Thorpe, S - 23.520, **56.431**
 Thurman, S - **53.467**
 Tian, M - **56.575**
 Tian, X - **43.332**
 Tibber, M - 36.421
 Tilford, R - **22.14**
 Tino, P - 56.331
 Tipper, SP - 43.521
 Tiurina, N - **43.568**
 Tjan, B - 23.447, 43.401
 Tjan, BS - 31.11, 36.430, 53.585, 63.421
 Tkacz-Domb, S - **43.411**
 Tlapale, É - **33.425**
 Todd, J - **43.307**
 Todd, JT - 43.305, 43.306
 Todorov, A - 56.544
 Todorović, D - **56.410**, 61.14
 Tokunaga, R - 26.432
 Tomassini, A - **26.502**
 Toneva, M - **26.569**
 Tong, F - 23.511, 26.551, 32.16, 53.522, 56.576, 63.338
 Tong, MH - **21.15**, 42.13, 56.426
 Tonsager, C - 33.573, **63.420**
 Torralba, A - 31.21, 33.562
 Torres, E - 33.316, 43.522, **53.582**
 Torres, S - 23.557
 Tortarolo, C - **56.328**
 Toscani, M - **23.408**
 Tosetti, M - 22.12
 Touryan, J - **23.587**
 Tovar, D - 52.25
 Towle, VL - 26.503, 55.23
 Tran, C - 56.315
 Tree, J - 63.453
 Tregillus, K - 43.515, **53.569**
 Treisman, A - 53.526
 Tremblay, L - 33.313, 33.317, 33.323, 33.330
 Tremblay, S - **33.522**
 Trevathan, A - 53.316
 Trevino, M - 43.547, **43.548**
 Trick, L - 26.554
 Triesch, J - **36.349**
 Tripathy, S - **33.417**
 Troje, N - 53.460, 53.462
 Troje, NF - 53.469
 Troncoso, X - 23.444
 Trujillo, LT - 23.323
 Trukenbrod, H - **26.572**
 Tsal, Y - 26.546
 Tschechne, S - **22.16**
 Tse, P - 42.15
 Tseng, C - **26.548**
 Tsetsos, K - 43.567, 54.21
 Tsirlin, I - **53.421**
 Tso, RV - **23.574**
 Tsotsos, J - **33.525**, 33.526, 53.511
 Tsotsos, JK - 53.508
 Tsuda, H - **63.311**
 Tsujimura, S - **35.12**
 Tubau, E - 33.322
 Tullo, D - 26.563
 Turek, S - 23.309
 Turk-Browne, NB - 21.24, 23.544, 33.512, 36.324, 53.331, 53.344, 56.330, 63.323
 Twarog, N - **51.16**
 Tyler, C - **56.445**
 Tyler, S - 53.456
 Tyler, SC - **26.543**
 Tyson, TL - **36.408**
U
 Uchida-Ota, M - 26.424
 Uchikawa, K - 33.405
 Udawatta, M - 62.12
 Ueda, Y - **33.514**
 Uesaki, M - 36.311
 Ullman, S - 56.559
 Ulrich, A - 26.582
 Unger, A - **56.544**
 Ungerleider, LG - 56.567
 Urgen, BA - **53.455**
 Utochkin, I - 43.568, 43.569, **43.570**, 53.309, 53.532
 Utz, S - **23.422**
V
 Vachon, F - 26.544
 Vaidya, J - 33.507
 Valadao, D - 43.573
 Vale, L - **63.328**
 Valsecchi, M - 23.408, **24.14**
 Valuch, C - **26.582**
 van Assen, JJ - **33.407**
 Vanbelle, G - 23.318
 Van Belle, G - 35.22, 41.11
 van Bergen, R - **63.430**
 van Boxtel, J - 56.519
 van Buren, B - **53.468**
 van Dam, L - 43.528, 52.12, **62.14**
 van den Berg, AV - **53.419**
 Van den Berg, R - 23.547
 Van Den Heuvel, K - 52.27
 van der Kamp, J - 43.533
 van der Leij, AR - 23.559
 van der Linden, L - **23.564**, 24.17, 43.333
 Van Derlofske, JF - 53.444
 van der Smagt, M - **33.337**, 33.345
 van der Smagt, MJ - 31.16
 Van der Stigchel, S - 23.429, 42.14, 53.551, 56.520
 Van der Stoep, N - 33.337
 Vanduffel, W - 23.508, 35.22
 van Ee, R - 56.518
 VanEssen, D - 54
 Vanegas-Arroyave, MI - **23.324**
 Vangeneugden, J - 53.452
 vanGervan, M - 56
 Vangkilde, S - 33.533, 62.22
 Van Gulick, A - **43.511**
 Van Horn, NM - **23.545**, 63.336
 van Kemenade, B - 53.466
 van Koningsbruggen, M - 34.17
 van Lamsweerde, A - 26.515
 van Lamsweerde, AE - **23.313**, 53.507
 van Moorselaar, D - 31.24
 Van Rijsbergen, N - 43.556, 53.568
 van Rijsbergen, NJ - **56.534**, 63.403
 VanRullen, R - 23.327, 23.403, 32.23, 53.324, 56.318
 Vanston, JE - **53.433**
 van Zoest, W - 56.430
 Varakin, A - 26.583
 Varakin, DA - **33.556**
 Vargas, A - **23.414**
 Varikuti, V - **43.419**
 Vaskevich, A - 36.429
 Vass, LK - 55.16
 Vaziri Pashkam, M - 21.16, **56.578**
 Veale, R - 23.433
 Vecera, S - 23.432, 33.507, 53.518
 Vecera, SP - 43.566
 Vedamurthy, I - 36.410, 36.436, 53.403
 Vergeer, M - **56.518**
 Verghese, P - 25.26, 41.22, 52.17, 56.423
 Verstraten, FA - 31.16
 Vetter, P - **53.581**
 Vickery, T - **33.509**, 53.531
 Victor, J - 32.15
 Victor, JD - 36.351, 36.352
 Vida, M - **33.558**
 Vida, MD - 36.428
 Vilidaitė, G - 53.405
 Vilis, T - 23.570
 Vincent, J - 26.306, **53.436**
 Vincent, M - **53.573**
 Vingilis-Jaremko, L - **56.533**
 Visscher, K - 53.343, **53.346**
 Viswanathan, J - 23.428, 43.326
 Vitu, F - 23.564, 24.17, 43.330, **43.333**, 56.442
 Vizioli, L - **53.566**, 53.572
 Vladusich, T - **33.413**
 Vo, M - **43.558**, 56.417
 Vo, ML - 55.14
 Vogel, E - 23.314, 23.315
 Vogel, EK - 36.336, 51.21
 Vogels, R - 35.22
 Volcic, R - 33.310, **52.13**
 von der Heydt, R - 34.24, **34.25**
 von Plessen, K - 33.533
 Voss, S - 56.324
 Voyles, A - **26.307**
 Vul, E - 31.22, 43.537
 Vuong, J - **23.530**
 Vuong, QC - 56.557
W
 Wagemans, J - 23.318, 43.556, 56.518
 Wager, E - **26.507**
 Wagman, J - 63.318
 Wailes-Newson, KH - 53.405
 Walders, K - 43.348
 Waldorp, LJ - 26.511
 Walenchok, S - 25.25, **53.553**
 Walker, C - **33.319**
 Walker, D - **36.409**
 Walker, E - **22.15**
 Walker, L - **25.13**, 36.408, 43.346, 52.17
 Wallin, CP - 23.528
 Wallis, TS - 51
 Wallraven, C - **24.27**, 53.586
 Walsh, JA - **36.428**
 Walter, B - 61.12
 Walther, D - 53.571, 55.11, 63.410
 Walther, DB - 53.560
 Wandell, B - 54.26, 54
 Wanderley, MM - 53.461
 Wang, A - **23.540**
 Wang, B - **23.312**
 Wang, C - 26.575, 26.576, **36.427**
 Wang, D - **53.406**
 Wang, H - 43.328, 56.425
 Wang, L - 23.571, 43.425, **56.539**
 Wang, LX - **43.508**
 Wang, P - **43.512**
 Wang, Q - 33.571, 33.575
 Wang, R - **43.572**, **56.331**
 Wang, S - 23.439
 Wang, W - **53.439**
 Wang, Y - 26.545, **26.547**, 33.440, **53.524**
 Wang, Z - 23.312, 26.575, **26.576**, **53.327**, **56.446**, 56.546
 Ward, A - 36.325
 Ward, E - **22.23**, 53.557
 Ward, G - 61.11
 Ward, J - 33.557
 Warren, Jr., WH - 63.312
 Warren, W - 21.11, **21.14**, 63.302, 63.307, 63.310
 Waszak, F - 43.519
 Watamaniuk, S - 33.445, **33.448**
 Watanabe, T - 32.22, 35.27, 53.341, 53.342, 56.333
 Waterman, A - 33.340
 Watkins, K - 54
 Watson, A - 56.403, **63.423**
 Watson, D - 26.308, 36.311, **53.567**, 63.401
 Watson, DM - 63.412
 Watson, M - 26.315
 Watson, MR - **55.28**
 Wattam-Bell, J - 41.13, 61.24
 Watter, S - 33.529
 Wattez, J - 23.406
 Waugh, S - 43.338
 Waugh, SJ - 43.405, **43.420**, 56.438, 56.502
 Weaver, M - **56.430**
 Webster, J - **23.504**
 Webster, K - **36.302**
 Webster, MA - 43.515, 53.569, 56.419, 63.418
 Weech, S - **53.469**
 Wei, K - 63.301
 Wei, L - 56.527
 Wei, X - **23.331**

- Weidner, R - 34.11
 Weiler, J - **23.427**
 Weinbach, N - **36.332**
 Weiner, K - **35.26**, 42.25
 Weiner, KS - 23.579
 Weinstein, R - 33.341
 Weiß, D - **43.429**
 Weiß, K - **56.429**
 Welch, L - 53.338
 Welchman, A - 33.406, 53.414
 Welsh, T - 33.323
 Welsh, TN - 56.336
 Wen, T - **23.506**
 Wen, W - 32.17
 Weng, Q - **23.571**
 Wenger, M - 36.331, **56.329**
 Wenger, MJ - 63.455
 Werker, JF - 26.315
 Werner, A - **35.17**
 Wesner, M - **33.449**
 West, GL - 63.326
 Westrick, Z - **36.403**
 Wexler, M - **32.24**, 56.451
 Whitaker, S - 56.553
 White, A - **22.21**
 White, B - **33.519**, S1
 Whitehurst, L - 56.338
 Whitman, A - 53.543
 Whitney, D - 34.12, 36.313, 41.16,
 43.575, 43.579, 53.313, 56.408,
 56.412, 62.15
 Whitwell, RL - 33.320, **52.15**
 Wicker, B - 63.326
 Wiebel, C - 33.410
 Wiecek, E - 53.402
 Wiegand, I - **33.508**
 Wiegand, T - 36.344
 Wieland, P - 21.11
 Wiener, M - **56.311**
 Wijekumar, S - **23.560**
 Wijntjes, M - 25.14, 33.408, **43.302**
 Wijntjes, MW - 43.318
 Wilcox, L - 53.421
 Wilcox, LM - 41.14, 43.550, 53.422
 Wilder, J - **43.335**
 Wilhelm, AF - 26.538
 Williams, C - 23.310
 Williams, D - 54.22
 Williams, M - **23.531**
 Williford, JR - **34.24**
 Wilmer, J - 33.546, 61.23, 62.21
 Wilson, C - 23.548, 41.26, 63.343
 Wilson, D - 53.315
 Wilson, DE - 53.537
 Wilson, H - 33.567, 43.502, S3
 Wilson, HR - **54.16**
 Wilson, R - 33.325
 Winawer, J - 63.450
 Windsor, MB - 33.537
 Wismer, A - 23.586, **23.588**
 Withouck, M - **23.406**
 Witt, J - 33.301, **43.518**
 Witthoft, N - 35.23, **42.26**
 Wloka, C - **53.511**
 Woi, PJ - 43.405
 Wolf, C - 33.311
 Wolfe, B - **34.12**, 43.575
 Wolfe, J - 25.25, 43.558, 53.301,
 53.305, 53.552, **56.417**
 Wolfe, JM - 26.568, 42.11, 53.304,
 53.306, 53.307, 55.14, 56.418,
 62.26
 Won, B - **56.424**
 Wong, AC - 43.415, **56.577**
 Wong, YK - **43.415**, 56.577
 Wong Kee You, A - **53.501**, 56.420
 Wood, K - **43.575**
 Woodman, G - 23.306, 33.521,
 36.330
 Wörner, R - 56.507
 Wright, T - 26.530, **26.531**
 Wright, V - 63.453
 Wu, C - **23.522**, 43.543, 56.318,
 56.421, **56.425**
 Wu, D - 36.427
 Wu, R - **53.548**
 Wu, X - **56.580**
 Wuerger, S - **43.426**
 Wurnitsch, N - 41.16
 Wutz, A - **34.17**, 56.314
 Wyart, V - **21.22**, 41.23, 54.21
 Wyble, B - 23.549, 26.521, **36.309**,
 53.514
 Wyland, H - **33.511**
- X**
 Xia, L - **23.402**
 Xiao, B - **61.12**
 Xiao, J - 26.430
 Xiao, N - **33.571**, 33.575, 63.460
 Xiao, W - 33.575
 Xie, H - 26.432
 Xie, W - 23.553, **63.345**
 Xing, D - **53.430**
 Xiong, Y - **43.414**
 Xu, B - **61.21**, 63.408
 Xu, H - 63.406
 Xu, J - 53.529
 Xu, Q - 26.547
 Xu, R - 23.521
 Xu, S - **43.517**
 Xu, X - 24.21
 Xu, Y - 35.28, 43.572, 51.26, 53.545,
 56.578
 Xu, YL - **26.565**
 Xu, Z - **53.549**
 Xue, X - 56.323
- Y**
 Yabe, Y - **56.460**
 Yago Vicente, TF - 26.564
 Yaguchi, H - 43.431
 Yahia Cherif, L - 26.436
 Yakovleva, A - 26.433
 Yamaguchi, MK - 61.16
 Yamamoto, H - 23.412
 Yamanashi Leib, A - 43.575, **43.579**
 Yamins, D - 52.26, S6
 Yampolsky, D - 53.426
 Yan, P - **43.308**
 Yan, X - 33.309, 43.328
 Yang, E - 63.433
 Yang, F - **23.301**
 Yang, H - 26.575, 26.576
 Yang, J - 61.16
 Yang, Y - **56.574**
 Yang, Z - 23.443, **36.348**, 43.531,
 56.560
 Yanke, A - 63.307
 Yantis, S - 26.540, 33.510
 Yarrow, K - 56.317, 62.16
 Yashar, A - **53.339**
 Yassa, MA - 23.304
 Yasuoka, A - **53.423**
 Yazdanbakhsh, A - 53.411, 56.413
 Yeatman, J - 54.26
 Yee-Joon, K - 41.22
 Yeh, S - **33.544**, 43.416, 53.534,
 56.540
 Yehezkel, O - **43.418**, 43.421, 56.335
 Yeshurun, Y - **33.532**, 43.411, 43.440
 Yeung, S - **23.428**
 Yildirim, F - **43.422**
 Yin, Y - 36.333
 Yokosawa, K - **63.306**
 Yonas, A - 26.413, 33.578
 Yoo, S - **53.508**
 Yoon, J - 35.23
 Yoonessi, A - 43.316, **43.319**
 Yoshida, M - 36.431
 Yoshida, T - 53.546, 53.580
 Yoshimoto, S - **26.424**, 26.542
 Yoshinaga, P - 23.437
 Yotsumoto, Y - 56.313
 You, J - 26.566
 Young, A - 56.545, 63.401
 Young, AW - 63.412
 Young, M - **56.444**
 Young, R - 23.325
 Yourganov, G - **43.347**
 Yovel, G - 23.512, 33.569
 Yoxon, E - **33.323**
 Yu, C - 23.575, **26.571**, 43.414,
 53.328, 53.340
 Yu, D - 23.521, **43.413**, **43.443**
 Yu, Q - **51.22**, **56.321**
 Yu, RQ - **53.538**
 Yu, X - 56.546
 Yuan, P - **26.545**
 Yuille, A - 34.22
 Yurevich, M - **53.309**
 Yuval-Greenberg, S - **31.13**
- Z**
 Zachariou, V - **56.567**
 Zaidi, Q - **24.15**, 43.315
 Zandbelt, B - 43.532, 56.444
 Zanker, J - 56.306, 63.322
 Zanker, JM - **36.350**
 Zannoli, M - **23.525**
 Zarebski, D - 26.553
 Zelinsky, G - 25.22, 26.571, **43.345**,
 53.328, 56.442
 Zelinsky, GJ - 26.564
 Zemblys, R - 43.337
 Zenon, P - 26.560
 Zhang, C - 36.349
 Zhang, D - 56.580
 Zhang, E - **53.333**
 Zhang, J - **35.28**, 43.414, **53.301**,
53.340
 Zhang, K - 26.529, 36.333
 Zhang, M - 23.540
 Zhang, P - **32.17**, 56.505, 56.539
 Zhang, R - 36.404
 Zhang, T - 33.440
 Zhang, W - 23.553, 63.345
 Zhang, X - 26.547, 26.555, **33.543**,
35.14, 56.581
 Zhang, Y - **56.581**
 Zhao, H - **63.310**
 Zhao, J - **21.24**, 21.25, 32.21, 53.538
 Zhao, M - **56.530**
 Zhao, Q - 23.439, 23.443, 53.529
 Zhao, X - 43.437
 Zhao, Y - 36.349, **54.25**
 Zhaoping, L - **33.528**
 Zheng, P - 23.509
 Zhong, S - **41.26**, 53.325
 Zhou, D - 43.565
 Zhou, H - 23.571
 Zhou, J - 26.534, 33.544
 Zhou, L - 56.580
 Zhou, T - 43.446
 Zhou, X - **56.531**
 Zhou, Y - 53.337, 63.446
 Zhu, Q - **23.508**
 Zhu, W - **43.560**
 Zhu, X - 36.348
 Zhu, Z - **43.408**, 53.573
 Zhuang, X - **43.424**
 Zhuo, Y - 43.446
 Zickler, T - 61.12
 Ziemba, C - 36.433
 Ziemba, CM - 36.432, 36.434, S6
 Zimmerman, B - 63.438
 Zimmermann, E - **34.11**, 34.15
 Zinke, W - 53.318
 Ziskind, A - **56.583**
 Zivony, A - **26.406**
 Zohar, SR - **43.550**
 Zohary, E - 56.457, 56.579, S5
 Zou, J - **56.505**
 Zucker, S - 33.412, 43.304, 54.14
 Zulkifli, NA - S1
 Zuo, Z - 56.539
 Zupan, Z - **26.308**
 Zweig, LJ - **33.334**

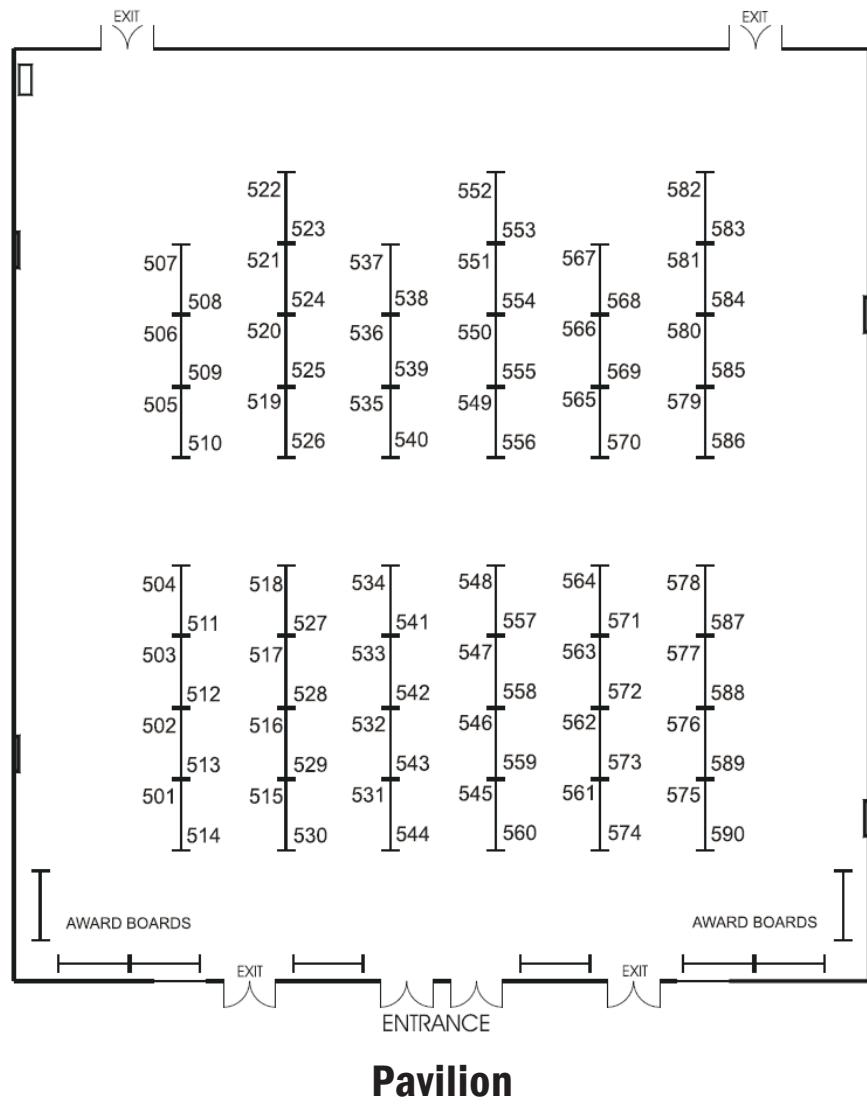
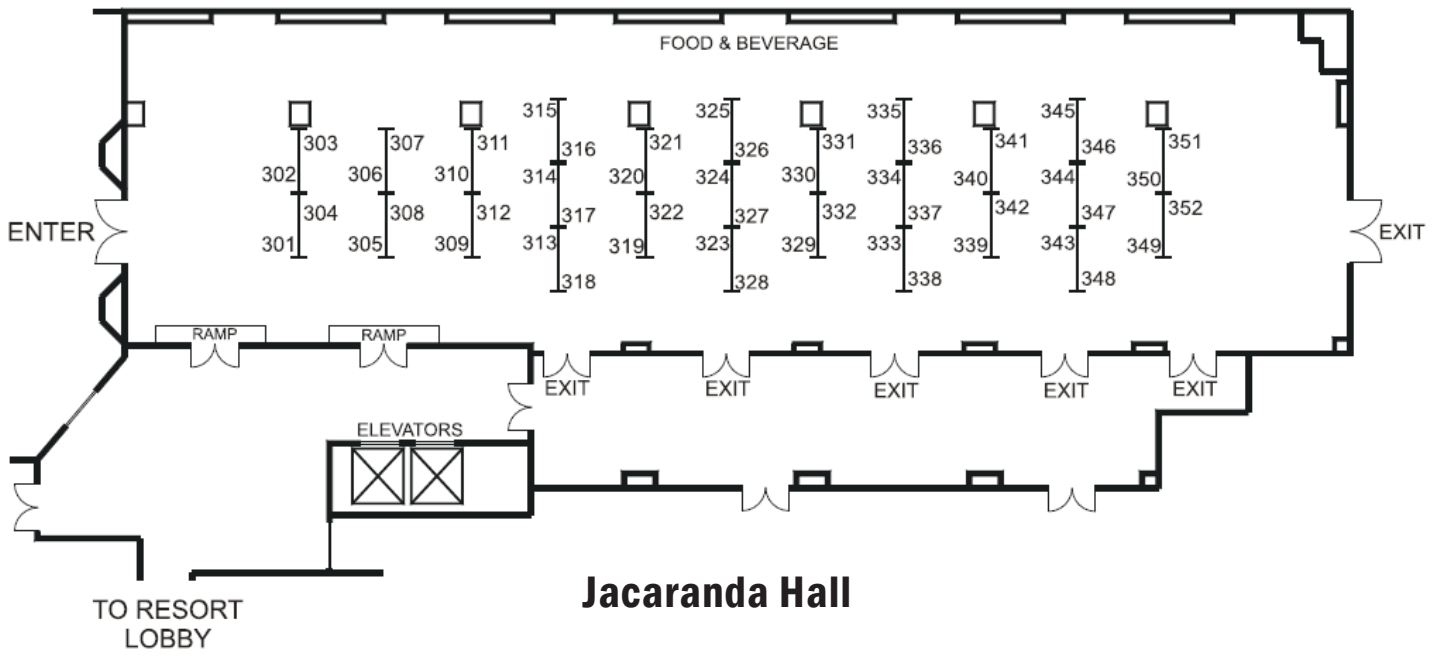
Poster Board Plans



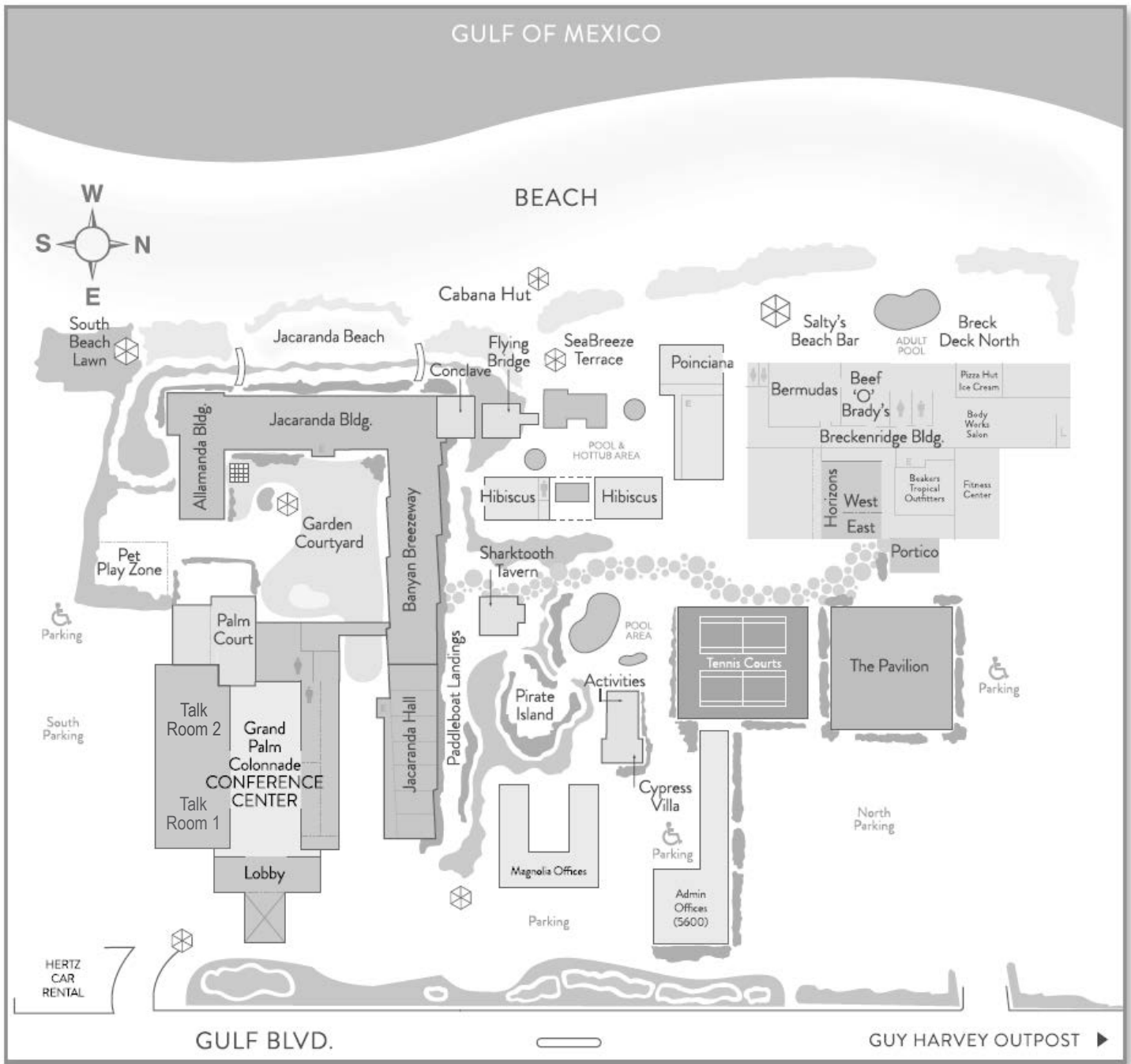
Banyan Breezeway - Saturday, Sunday, Monday

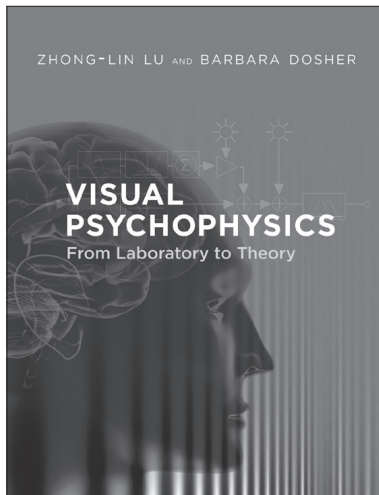


Banyan Breezeway - Tuesday and Wednesday



TradeWinds Property Plan





VISUAL PSYCHOPHYSICS

From Laboratory to Theory

Zhong-Lin Lu and Barbara Doshier

A comprehensive treatment of the skills and techniques needed for visual psychophysics, from basic tools to sophisticated data analysis.

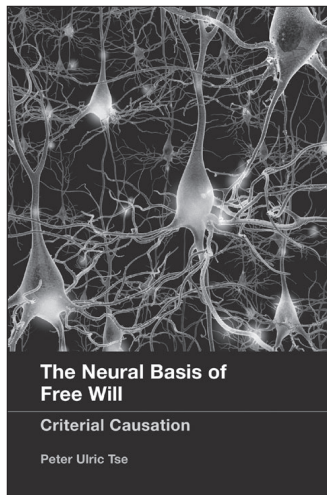
528 pp., 126 b&w illus, 10 color plates • \$60 cloth

THE NEW VISUAL NEUROSCIENCES

edited by John S. Werner and Leo M. Chalupa

A comprehensive review of contemporary research in the vision sciences, reflecting the rapid advances of recent years.

1,584 pp., 575 b&w illus., 281 color plates, \$250 cloth



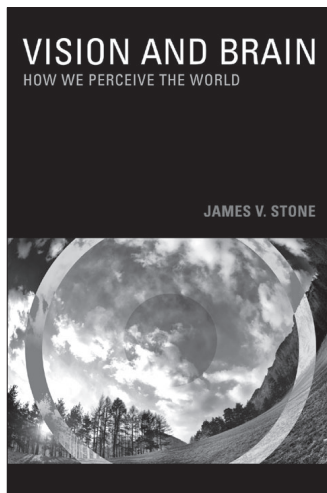
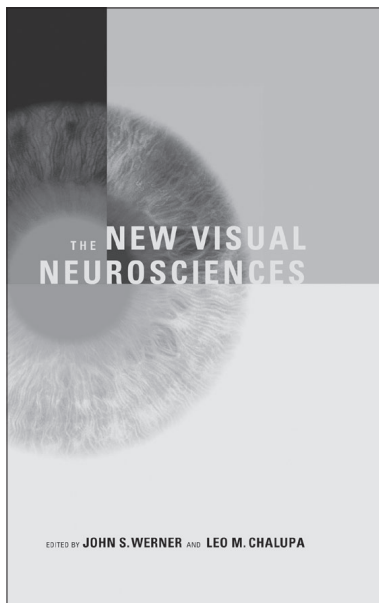
THE NEURAL BASIS OF FREE WILL

Criterial Causation

Peter Ulric Tse

A neuroscientific perspective on the mind-body problem that focuses on how the brain actually accomplishes mental causation.

384 pp., 28 illus., \$38 cloth



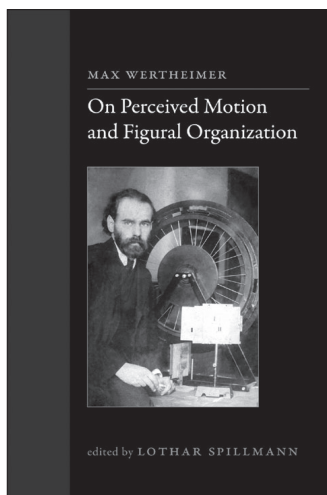
VISION AND BRAIN

How We Perceive the World

James V. Stone

An engaging introduction to the science of vision that offers a coherent account of vision based on general information processing principles.

296 pp., 25 color illus., 132 b&w illus., \$30 paper



ON PERCEIVED MOTION AND FIGURAL ORGANIZATION

Max Wertheimer

edited by Lothar Spillmann

with contributions by Michael Wertheimer, K. W. Watkins, Steven Lehar, Robert Sekuler, Viktor Sarris, and Lothar Spillmann

Two seminal articles by a founder of the Gestalt school of psychology, newly translated and accompanied by essays that connect his work to current research.

320 pp., 182 illus., \$40 cloth

Forthcoming

SCENE VISION

Making Sense of What We See

edited by Kestutis Kveraga and Moshe Bar

Visit our
BOOTH
for a 30%
DISCOUNT