Symposium and Talk Sessions

TALK ROOM 1 **TALK ROOM 2** Friday, May 17 12:00 - 2:00 pm Neurodiversity in visual functioning: Moving beyond Large-scale visual neural datasets: where do we go case-control studies 2:30 - 4:30 pm The temporal evolution of visual perception Attention: accept, reject, or major revisions? 5:00 – 7:00 pm The Multifaceted effects of blindness and how sight Using deep networks to re-imagine object-based attenmight be restored Saturday, May 18 8:15 - 9:45 am Object Recognition: Models Perceptual Organization 10:45 am - 12:30 pm Eye Movements: Neural mechanisms Color, Light and Materials: Neural mechanisms, models Face and Body Perception: Development, disorders, 2:30 - 4:15 pm Attention: Selection, modulation, resource competition models, neural mechanisms 5:15 - 6:45 pm Perception of Relations, Intuitive Physics Visual Search 1 Sunday, May 19 8:15 - 9:45 am Scene Perception: Behaviour, psychophysics Spatial Vision 10:45 am - 12:30 pm Visual Memory: Working and behavior 2:30 - 4:15 pm Attention: Tracking, shifting, capture Color, Light and Materials: Materials, integrated perception 5:15 - 7:15 pm Eye Movements: Early visual processing Plasticity and Learning Monday, May 20 8:15 - 9:45 am Eye Movements: Perception and timing Object Recognition: Neural mechanisms 10:45 am - 12:15 pm 3D Perception Development Tuesday, May 21 8:15 - 9:45 am Object Recognition: Categories and features Attention: Neural mechanisms 10:45 am - 12:15 pm Visual Search 2 Face and Body Perception 2:30 - 4:15 pm Visual Memory: Working and neural mechanisms Temporal Processing 5:15 – 7:15 pm Multisensory Processing **Decision Making**

Wednesday, May 22

8:15 - 10:00 am 11:00 am - 12:45 pm

Scene Perception: Neural mechanisms, representations

Visual Memory Binocular Vision

Exhibitors

ANT NEURO	Booth 2	ROGUE RESEARCH INC.	Booths 3,4
BRAIN VISION, LLC	Booth 16	SR RESEARCH LTD.	Booth 15
CAMBRIDGE RESEARCH SYSTEMS	Booth 12	VPIXX TECHNOLOGIES INC.	Booths 6,7,8
EXPONENT	Booth 14	WORLDVIZ VR	Booth 1
J.S. HELD	Booth 5	ZETO, INC.	Booth 13
NIRX MEDICAL TECHNOLOGIES	Booth 9	Exhibit Hours Saturday, Sunday, Tuesday, 8:00 am – 5:30 pm Monday, 8:00 am – 12:30 pm	
PSYCHOLOGY SOFTWARE TOOLS	Booth 10		
PUPIL LABS	Booth 11		

TradeWinds Resort Property Map



Welcome to VSS 2024



Sessions and Events

Friday, May 17

COMPUTATIONAL AND MATHEMATICAL MODELS IN VISION (MODVIS) VSS Satellite

9:00 - 12:00 pm, Blue Heron

THE VISION SCIENCE OF DIGITAL READABILITY: **COMMUNITY-BUILDING WORKSHOP** VSS Satellite

9:00 am - 12:00 pm, Snowy Egret

OPENING NIGHT RECEPTION

7:00 - 9:30 pm, Beach

VISIBILITY: A GATHERING OF LGBTQ+ VISION SCIENTISTS AND FRIENDS VSS Satellite

8:30 – 10:00 pm, Garden Courtyard

Saturday, May 18

UNVEILING THE POTENTIAL OF AI IN UNDERSTANDING HUMAN VISION WITH ETHICAL INTEGRATION

12:45 – 2:15 pm, Snowy Egret

VPIXX: A MULTISPECTRAL PROJECTOR FOR ADVANCED

VISION SCIENCE VSS Satellite

12:45 - 2:15 pm, Banyan/Citrus

ENHANCING ACCESSIBILITY WORKSHOP

KEYNOTE LECTURE – DORA BIRO

Eye in the sky: visually-guided navigation in birds 7:15 - 8:15 pm, Talk Room 1-2

Sunday, May 19

ART OF MEMORY EXHIBITION VSS Satellite

8:00 am – 6:00 pm, Glades

CANADIAN VISION SCIENCE SOCIAL VSS Satellite

12:30 - 2:30 pm, Sabal/Sawgrass

WORLDVIZ: VIRTUAL REALITY + EYE TRACKING FOR

RESEARCH VSS Satellite

12:45 – 2:15 pm, Blue Heron

CAREER TRANSITIONS WORKSHOP

1:00 - 2:00 pm, Snowy Egret

US FUNDING WORKSHOP

1:00 - 2:00 pm, Banyan/Citrus

VISXVISION WORKSHOP: VISION SCIENCE AND DATA VISUALIZATION RESEARCH VSS Satellite

7:15 - 9:15 pm, Banyan/Citrus

Monday, May 20

ART OF MEMORY EXHIBITION VSS Satellite

8:00 am - 6:00 pm, Glades

AWARDS SESSION

Davida Teller Award, Ken Nakayama Medal, Young Investigator Award 12:30 - 2:00 pm, Talk Room 2

PSYCHOPHYSICS SOFTWARE WITH MATLAB VSS Satellite

2:00 - 3:30 pm, Jasmine/Palm

SO YOU PUBLISHED YOUR WORK - NOW WHAT? PATHS FOR VISION SCIENTISTS TO DRIVE SOCIETAL IMPACT

VSS Satellite

2:00 - 5:00 pm, Blue Heron

HOW TO STOP WORRYING AND LOVE COMPUTA-TIONAL NEUROIMAGING OF THE VISUAL CORTEX

VSS Satellite

2:00 - 5:00 pm, Banyan/Citrus

UNDERGRAD MEET & GREET

MEET THE PROFESSORS

3:30 - 5:00 pm, Banyan Breezeway

BEACH BBQ AND DEMO NIGHT

Dinner: 6:00 - 8:00 pm, Beach Demos: 7:00 – 10:00 pm, Talk Room 1-2

Tuesday, May 21

ART OF MEMORY EXHIBITION VSS Satellite

8:00 am - 6:00 pm, Glades

ANNUAL BUSINESS MEETING

PHIVIS: PHILOSOPHY OF VISION SCIENCE WORKSHOP VSS Satellite

12:30 - 2:30 pm, Banyan/Citrus

CONNECT WITH INDUSTRY

1:00 – 2:30 pm, Spotted Curlew, Snowy Egret, Blue Heron

NEGOTIATION: WHEN TO DO IT AND HOW TO DO IT SUCCESSFULLY

CLUB VISION

10:00 pm - 2:00 am. Talk Room 1-2

Poster Sessions

BANYAN BREEZEWAY

PAVILION

Attention: Capture

Visual Search: Attention, phenomena 1

Attention: Inattention, attentional blindness, suppression

Decision Making: Decision making and actions

Decision Making: Perceptual decision making 1

Multisensory Processing: Audiovisual behavior

Multisensory Processing: Illusions, recognition

3D Perception: Depth cue integration, neural mechanisms

Object Recognition: High-level features

Color, Light and Materials: Art, cognition

Object Recognition: Visual preference Color, Light and Materials: Surfaces, materials

Scene Perception: Neural mechanisms

Object Recognition: Neural mechanisms

Eye Movements: Fixational eye movements

Face and Body Perception: Neural mechanisms 1

Face and Body Perception: Neural mechanisms 2

Face and Body Perception: Development, experience

Visual Memory: Working memory and objects, features

Visual Search: Neural mechanisms, clinical, applied

Plasticity and Learning: Disorders, atypical vision

Decision Making: Perceptual decision making 3

3D Perception: Virtual and augmented reality

Object Recognition: Structure of categories

Spatial Vision: Machine learning, neural networks

Temporal Processing: Duration, atypical, timing perception

Binocular Vision: Disparity, stereopsis and suppression

Spatial Vision: Crowding, eccentricity Scene Perception: Categorization

Attention: Divided, resource competition

Eye Movements: Natural world and VR

Visual Search: Attention, phenomena 2

3D Perception: Size, shape, distance

Action: Locomotor, flow, steering Action: Clinical, neural

Object Recognition: Basic features

Eye Movements: Clinical

Attention: Features, objects 1

Attention: Features, objects 2

Attention: Spatial selection 1

Attention: Spatial selection 2

Visual Memory: Imagery

Data Visualization

Motion: Detection

Action: Reach, grasp, track

Attention: Tracking, shifting

Attention: Temporal selection

Attention: Neural mechanisms

Saturday, May 18, 8:30 am – 12:30 pm

Spatial Vision: Neural mechanisms

Development: Clinical and high-level Plasticity and Learning: Models, neural mechanisms

Face and Body Perception: Bodies

Face and Body Perception: Neural mechanisms of social cognition

Multisensory Processing: Neural coding

Multisensory Processing: Development, clinical

Motion: Higher-order

Saturday, May 18, 2:45 – 6:45 pm

Temporal Processing: Neural mechanisms, models

Eye Movements: Learning, expertise, context and faces Eye Movements: Saccades

Visual Memory: Working memory and neural mechanisms

Undergraduate Just-In-Time 1

Sunday, May 19, 8:30 am - 12:30 pm

Plasticity and Learning: Electrophysiology, brain stimulation

Decision Making: Perceptual decision making 2 Binocular Vision: Eye dominance and rivalry

Color, Light and Materials: Neural mechanisms, models, disorders Development: Natural experience and eye movements

Pre-Data-Collection Posters

Sunday, May 19, 2:45 – 6:45 pm

Object Recognition: Reading

Object Recognition: Acquisition of categories

Scene Perception: Virtual environments, intuitive physics

Spatial Vision: Models

Visual Search: Cueing, context, scene complexity, semantics Visual Search: Eye movements, suppression

Monday, May 20, 8:30 am - 12:30 pm

Visual Memory: Encoding, retrieval

Visual Memory: Working memory and development, individual differences, capacity, resolution

Visual Memory: Capacity, long-term memory

Color, Light and Materials: Appearance, categories

Undergraduate Just-In-Time 2

Tuesday, May 21, 8:30 am – 12:30 pm

Scene Perception: Ensembles, natural image statistics

Visual Memory: Working memory and attention

Visual Memory: Working memory and encoding, retrieval

Visual Memory: Working memory and behavior, models Plasticity and Learning: Properties

Binocular Vision: Clinical

Action: Representation

Tuesday, May 21, 2:45 – 6:45 pm

Face and Body Perception: Wholes, parts configurations, features Visual Search: Memory, search templates

Visual Search: Mechanisms, models

Perceptual Organization: Neural mechanisms, models

Perceptual Organization: Parts, wholes, groups

Pre-Data-Collection Posters

Wednesday, May 22, 8:30 am – 12:30 pm Perceptual Organization: Segmentation, shapes, objects

Spatial Vision: Image statistics, neural mechanisms Motion: Neural mechanisms

Eye Movements: Perception, cognition and memory Eye Movements: Accuracy, pursuit and eccentricity

Object Recognition: Models Face and Body Perception: Models Face and Body Perception: Disorders, individual differences

Face and Body Perception: Social cognition

Attention: Reward, motivation, emotion Attention: Exogenous, endogenous, gaze

Schedule-at-a-Glance

































