

Curriculum Vitae

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- Name: Shin'ya Nishida (西田真也)
- Male, married with one child
- Date and Place of Birth: 28th August, 1962, Osaka, Japan
- Nationality: Japan
- Current Position:

Professor

Cognitive Informatics Laboratory
Department of Intelligence Science and Technology
Graduate School of Informatics, Kyoto University
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Senior Distinguished Scientist, Research Professor
Human Information Science Laboratory, NTT Communication Science Laboratories
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● Education

1981.04-1985.03 B.A. course in Psychology, Faculty of Letters, Kyoto University,
Japan
1985.04-1987.03 M.A. course in Psychology, Faculty of Letters, Kyoto University,
Japan
1987.04-1990.03 Ph.D course in Psychology [Awarded in 1996], Faculty of Letters,
Kyoto University, Japan

● Appointments

1990.04-1992.03 Research Associate, ATR Auditory and Visual Perception
Laboratories, Japan
1992.04-1999.01 Research Scientist, NTT Basic Research Laboratories, Japan
1997.10-1998.10 Honorary Research Fellow, Dept. Psychology and Institute of
Cognitive Neuroscience, University College London, UK
1999.01-Present Research Scientist, NTT Communication Science Research
Laboratories, Japan

2006.04-2012.03 Visiting professor, Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology, Japan
2008.08-2016.03 Visiting Professor, Center for Multidisciplinary Brain Research, National Institute for Physiological Sciences, Japan
2014.04- Visiting Professor, Leading Graduate School at Toyohashi University of Technology, Japan
2018.08- Honorary Professor, Department of Psychology, Nottingham University, UK
2019.04- Professor, Graduate School of Informatics, Kyoto University, Japan

● Professional Activities

Editorial board member: Journal of Vision (2007-), Multisensory Research (2016-) and Vision Research (2008-2017)

Project leader: Grant-in-Aid for Transformative Research Areas (A) (2020-2024) “Analysis and synthesis of deep SHITSUKAN information in the real world”, Grant-in-Aid for Scientific Research on Innovative Areas (2015-2019) “Understanding human recognition of material properties for innovation in SHITSUKAN science and technology”

Member: Science Council of Japan (2017-2023)

Member: Vision Society of Japan (President 2014-2018), Japanese Psychological Association, Vision Sciences Society, and Japanese Psychonomic Society

● Awards

2006.02 JSPS prize, Japan Society for the Promotion of Science

2006.11 JPA International Prize, The Japanese Psychological Association

2015.04 Prize for Science and Technology (Research Category), The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, Japan

2017.08 Rank Prize Lecturer, European Conference on Visual Perception 2017 (Berlin)

● Publications

1. Yokosaka, T., Kuroki, S., Nishida, S. (2020). Describing the sensation of the 'velvet hand illusion' in terms of common materials. *IEEE transactions on haptics*.
2. Terao, M., & Nishida, S. (2020). Direction of Apparent Motion During Smooth Pursuit Is Determined Using a Mixture of Retinal and Objective Proximities. *I-Perception*, 11(3), 204166952093732–13.
3. van Assen, J. J. R., Nishida, S., & Fleming, R. W. (2020). Visual perception of liquids: Insights from deep neural networks. *PLoS Computational Biology*, 16(8), e1008018–29.
4. Nishida, S. (2019). Image statistics for material perception, *Current Opinion in Behavioral Sciences* 30, 94-99.
5. Hosokawa, K, Maruya, K, Nishida, S, Takahashi, M, Nakadomari, S, (2019). Gamified vision test system for daily self-check, 2019 IEEE Games, Entertainment, Media Conference (GEM), 1-8
6. Fukiage, T., Kawabe, T., Nishida, S. (2019). Perceptually Based Adaptive Motion Retargeting to Animate Real Objects by Light Projection, *IEEE transactions on visualization and computer graphics* 25 (5), 2061-2071.
7. Nishida, S., Kawabe, T., Sawayama, M., & Fukiage, T. (2018). Motion Perception: From Detection to Interpretation. *Annual Review of Vision Science*, 4(1), 501–523.
8. Kawabe, T., & Nishida, S. (2018). Deformation-induced transparency resolves color scission. *Journal of Vision*, 18(8), 3–12.
9. Sawayama, M., & Nishida, S. (2018). Material and shape perception based on two types of intensity gradient information. *PLoS Computational Biology*, 14(4), e1006061.
10. Yokosaka, T., Kuroki, S., Watanabe, J., & Nishida, S. (2018). Estimating Tactile Perception by Observing Explorative Hand Motion of Others. *IEEE Transactions on Haptics*, 11(2), 192–203.
11. Kuroki, S. & Nishida, S. (2018). Human tactile detection of within- and inter-finger spatiotemporal phase shift of low-frequency vibrations. *Scientific Reports*, 8(1), 4288.
12. Kawabe, T., & Nishida, S. (2018). Reduction of Flicker in Four-Stroke Motion of Color Images. *I-Perception*, 9(1), 2041669517750400.
13. Kawabe T. & Nishida S. (2017). Contour junctions defined by dynamic image deformations enhance perceptual transparency, *Journal of Vision*, 17(13):15, 1-8, doi:10.1167/17.13.15.
14. Fukiage T, Kawabe T, Sawayama M & Nishida S (2017). Animating Static Objects by Illusion-Based Projection Mapping. *Journal of the Society for Information Display*, 25(7), 434-443.

15. Klimova, M., Nishida, S., Roseboom, W. (2017). Grouping by feature of cross-modal flankers in temporal ventriloquism. *Scientific Reports*, 7(1), 7615.
16. Fukiage T, Kawabe T, & Nishida S, (2017). Hiding of phase-based stereo disparity for ghost-free viewing without glasses", *ACM Transactions on Graphics (SIGGRAPH 2017)*, 36(4), Article 147.
17. Hayashi R, Watanabe O, Yokoyama H & Nishida S (2017). A new analytical method for characterizing non-linear visual processes with stimuli of arbitrary distribution: theory and applications, *Journal of Vision*. 17(6):14, 1-20, doi:10.1167/17.6.14.
18. Kuroki S, Watanabe J & Nishida S (2017). Integration of vibrotactile frequency information beyond the mechanoreceptor channel and somatotopy, *Scientific Reports*, 7: 2758, DOI:10.1038/s41598-017-02922-7.
19. Sawayama, M., Adelson, E.H., & Nishida, S. (2017). Visual wetness perception based on image color statistics, *Journal of Vision*, 17(5):7, 1-24, doi:10.1167/17.5.7.
20. Sawayama, M., Nishida, S., & Shinya, M. (2017). Human perception of sub-resolution fineness of dense textures based on image intensity statistics, *Journal of Vision*, 17(4):8, 1-18, doi:10.1167/17.4.8.
21. Yokosaka, T., Kuroki, S., Watanabe, J., & Nishida, S. (2017). Linkage between free exploratory movements and subjective tactile ratings. *IEEE Transactions on Haptics*, 10(2), 217-225, doi: 10.1109/TOH.2016.2613055.
22. Ho, H.-N., Sato, K., Kuroki, S., Watanabe, J., Maeno, T., & Nishida, S. (2017). Physical-Perceptual Correspondence for Dynamic Thermal Stimulation. *IEEE Transactions on Haptics*, 10(1):84-93. <http://doi.org/10.1109/TOH.2016.2583424>.
23. Rider, A., Nishida, S., & Johnston, A. (2016). Multiple-stage ambiguity in motion perception reveals global computation of local motion directions, *Journal of Vision*, 16(15):7, 1-11.
24. Kuroki, S., Hagura, N., Nishida, S., Haggard, P., & Watanabe, J. (2016). Sanshool on the fingertip interferes with vibration detection in a rapidly-adapting (RA) tactile channel, *PLOS ONE*, 11(12): e0165842. DOI:10.1371/journal.pone.0165842.
25. Hisakata, R., Nishida, S., & Johnston, A. (2016). An Adaptable Metric Shapes Perceptual Space. *Current Biology*, 26(14), 1911-1915.
26. Amano, K., Qi, L., Terada, Y., & Nishida, S. (2016). Neural Correlates of the Time Marker for the Perception of Event Timing. *eNeuro*, 3(4), 1-17. <http://doi.org/10.1523/ENEURO.0144-16.2016>.
27. Kuroki, S., Watanabe, J., & Nishida, S. (2016). Neural timing signal for precise tactile timing judgments, *Journal of Neurophysiology*, Published 3 February 2016, DOI: 10.1152/jn.00790.2015.

28. Kawabe, T., Fukiage, T., Sawayama, M., & Nishida, S. (2016). Deformation Lamps: A Projection Technique to Make Static Objects Perceptually Dynamic. *ACM Transactions on Applied Perception*, 13, 2, Article 10.
29. Ho, H.-N., Iwai, D., Yoshikawa, Y., Watanabe, J., & Nishida, S. (2015). Impact of hand and object colors on object temperature perception. *Temperature*, 2(3), 344-345. <http://doi.org/10.1080/23328940.2015.1078926>.
30. Terao, M., Murakami, I., Nishida, S. (2015). Enhancement of motion perception in the direction opposite to smooth pursuit eye movement. *J Vis.* 15(13):2
31. Kawabe, T., Maruya, K., Nishida, S. (2015). Perceptual transparency from image deformation. *Proc Natl Acad Sci U S A.* , 112(33):E4620-7.
32. Fleming, R. W., & Nishida, S. & Gegenfurtner, K. R.(2015). Perception of material properties, *Vision Research*, 115, 157-162.
33. Paulun, V. C., Kawabe, T., Nishida, S., & Fleming, R. W. (2015). Seeing liquids from static snapshots. *Vision Research*, 115, 165-174.
34. Yokosaka, T., Kuroki, S., Nishida, S. and Watanabe, J. (2015), Apparent time interval of visual stimuli is compressed during fast hand movement, *PLOS ONE*, 2015 Apr 8;10(4):e0124901.
35. Fleming, R. W., Gegenfurtner, K. R., & Nishida, S. (2015). Visual perception of materials: The science of stuff. *Vision Research*, 109, 123-124.
36. Kawabe, T., Maruya, K., Fleming, R.W., Nishida, S. (2015). Seeing liquids from visual motion. *Vision Research*, 109, 125-138.
37. Roseboom, W., Linares, D., & Nishida, S. (2015). Sensory adaptation for timing perception. *Proceedings Biological Sciences / The Royal Society*, 282(1805), 20142833-20142833.
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46. Kawabe, T., Roseboom, W., & Nishida, S. (2013). The sense of agency is action-effect causality perception based on cross-modal grouping. *Proceedings of the Royal Society B: Biological Sciences*, 280(1763), 20130991. <http://dx.doi.org/10.1098/rspb.2013.0991>
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67. Amano, K., Kumura, T., Nishida, S., Takeda, T. & Gomi, H. (2009). Close similarity between spatio-temporal frequency tunings of human cortical responses and involuntary manual following responses to visual motion. *Journal of Neurophysiology*, 101, 888-897.
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72. Amano, K., Edwards, M., Badcock, D.R., & Nishida, S., (2009). Spatial-frequency tuning in the pooling of one- and two-dimensional motion signals, *Vision Research*, 49(23), 2862-2869.
73. Roseboom, W., Nishida, S. & Arnold, D. (2009). The sliding window of audio-visual simultaneity, *Journal of Vision*, 9(12), 4, 1-8.
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76. Sharan, L., Yuanzhen, L., Motoyoshi, I., Nishida, S., & Adelson, E.H. (2008). Image statistics for surface reflectance perception, *Journal of the Optical Society of America, A.*, 25(4), 846-65 .
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129. Nishida, S. (1993). Spatiotemporal properties of motion perception for random-check contrast modulations, *Vision Research*, 33, 633-645.
130. Nishida, S., Ohtani, Y., & Ejima, Y. (1992). Inhibitory interaction in a split/fusion apparent motion: Lack of spatial-frequency selectivity. *Vision Research*, 32, 1523-1534.
131. Nishida, S. & Sato, T. (1992). Positive motion after-effect induced by bandpass-filtered random-dot kinematograms, *Vision Research*, 32, 1635-1646.
132. Ohtani, Y., Ejima, Y. & Nishida, S. (1991). Contribution of transient and sustained responses to the perception of apparent motion. *Vision Research*, 31, 999-1012.

133. Nishida, S. & Takeuchi, T. (1990). The effects of luminance on affinity of apparent motion, *Vision Research*, 30, 709-721.
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● Invited Talks

1. Nishida, S. (March, 27, 2019). "Visual material perception," The Seventh IAPR Computational Color Imaging Workshop (CCIW2019), Chiba.
2. Nishida, S. (March, 25, 2019). "Hacking human visual perception," Keynote lecture, IEEE VR Osaka.
3. Nishida, S. (Oct, 14, 2017). "Contribution of color to material perception," Invited session "Material Perception", American University, Washington, DC. USA
4. Nishida, S. (Aug, 30, 2017). "Visual Material Perception", Rank Prize Lecture, European Conference on Visual Perception 2017, Berlin, Germany
5. Kawabe, T. & Nishida, S. (Aug, 29, 2017). "Transparent surface formation from dynamic image deformation" Symposium "Beyond Translation: Image deformation and dynamics in material and shape perception", European Conference on Visual Perception 2017, Berlin, Germany
6. Fukiage, T., Kawabe, T., & Nishida, S. (Aug, 2, 2017). "Hiding of phase-based stereo disparity for ghost-free viewing without glasses", DCAJ Presentation: Industrial Application of Content Technology in Japan, ACM SIGGRAPH2017, Los Angelis, USA
7. Nishida, S., Kawabe, T., Fukiage, T., Sawayama, M. (Dec, 9, 2016). Animating Static Objects by Illusion-Based Projection Mapping, IDW/AD'16
8. Nishida, S. (July, 14, 2016). Motion perception: From a dark room to the real world, Aisa Paific Conference on Vision, Fremantle, Australia.
9. Nishida, S. (July, 14, 2016). Deformation Lamps, DCAJ Presentation in SIGGPAPH, Los Angelis, USA
10. Nishida, S. (Oct, 7, 2014). Material perception from multiple sensory attributes and modalities, PRISM4, Ankara, Turkey.
11. Nishida, S. (Dec, 1, 2014). Perception of spatiotemporal structures of visual motion, UCL ICN seminar, London, England.
12. Nishida, S. (Dec, 4, 2014). Material perception from multiple sensory attributes and modalities, CNRS seminar, Paris, France.
13. Nishida, S. (July, 16, 2014). Shitsukan perception from multiple sensory attributes and modalities, Future of Shitsukan Research, The University of Tokyo.
14. Nishida, S. (Oct, 7, 2014). Material perception from multiple sensory attributes and modalities, PRISM4, Ankara, Turkey
15. Nishida, S. (March, 2013). Hierarchical processing of motion information by human vision, Workshop on Perception of Motion and Pattern, Kyoto University.
16. Nishida, S. (June, 2012). Seminar, Peking University (China).

17. Nishida, S. (July, 2012). Spatial processing of visual motion, Symposium on Mechanism of Motion Perception, Asia-Pacific Conference on Vision, Incheon (Korea).
18. Nishida, S. (July, 2012). Interactions of visual motion processing with form and color processing, BCS Symposium 2012, Seoul National University, Seoul (Korea).
19. Nishida, S. (June, 2011). Color processing for surface gloss and image naturalness. Workshop on Material Perception, Rauischholzhausen, Germany, June 1-5, 2011.
20. Nishida, S. (July, 2010). Perception of colorful natural scenes, Asia-Pacific Conference on Vision, Taipei (Taiwan).
21. Nishida, S. (Sep, 2009). Psychophysical approach to the measurement of perceptual latency, NIPS International Workshop for Scientific Study of Consciousness, Okazaki (Japan).
22. Kitazawa, S. & Nishida, S. (June, 2008). Tutorial: Adaptive anomalies in conscious time perception. Annual Meeting of the Association of the Scientific Study of Consciousness (ASSC12), Taipei (Taiwan).
23. Nishida, S. (Sep, 2008). Human visual processing for surface qualities of moving and stationary objects. International Workshop on Image Media Quality and its Applications (IMQA2008), Kyoto (Japan).
24. Nishida, S., Motoyoshi, I., Nakano, L., Sharan, L. Li, Y., & Adelson, EH. (Oct, 2008). Roles of color in perception of material properties, Workshop on the Perception of Material Properties in 3D Scenes, Philadelphia (Pennsylvania, US)
25. Nishida, S. Terao, M. & Watanabe, J. (Oct, 2008). Trajectory integration of color signals for motion deblurring, The OSA Fall Vision Meeting, Rochester (New York, US)
26. Nishida, S., Amano, K., Maruya, K., Edwards, M. & Badcock, DR (Nov, 2008). Motion integration across orientation, space and spatial frequency, UCL Workshop "From Cooperative Processes to Global Motion", London (UK).
27. Nishida, S., Motoyoshi, I., Sharan, L., Li, Y., (Nakano, L.,) Adelson, E.H. (July, 2007). The perception of reflectance properties of natural surfaces using image statistics, 19th Symposium of the International Colour Vision Society, Belem (Brazil).
28. Nishida, S. (July, 2006). Interactions and integrations of multiple sensory channels in human brain. International Conference on Multimedia & Expo (ICME), Toronto (Canada).
29. Nishida, S. & Fujisaki, W. (Jan. 2005). Audio-visual synchrony, ATR Symposium on the Cross-modal Processing of Faces and Voices, Kyoto (Japan).
30. Nishida, S., Fujisaki, W., Kashino, M. & Shimojo, S. (April. 2004). Recalibration of Audio-visual Simultaneity: where does it occur?, International Congress on Acoustics, Kyoto (Japan).

31. Nishida, S. (July, 2004). Motion-based pattern perception, ICO'04, Tokyo (Japan).
 32. Nishida, S. (Oct. 2004). Perception of audio-visual synchrony, UCL Temporal Processing and Cross Modal Perception Workshop. London (England).
 33. Nishida, S. (Aug. 2003). How does the brain judge simultaneity of events? MBL Workshop on Neural Spectroscopy, Woods Hall (Massachusetts).
 34. Nishida, S. (Aug. 2002). Direction selective pattern analysis, Conference: Visual Localisation in Space-Time, Brighton (England).
 35. Nishida, S. (March, 2000). Messages between modules. The 26th NIPS International Symposium, "Neural Mechanisms of Visual Perception and Cognition", Okazaki (Japan).
 36. Nishida, S. (Nov. 2000). Perceptual timing of motion: Psychophysical studies on modularities of vision, ICONIP, Taejon (Korea).
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