

## Curriculum Vitae (as of May, 2019)

### Personal profile and Contact

Name (first, last): Ichiro Kuriki

Nationality: Japanese

Place of Birth: Tokyo, Japan

Year of Birth: 1967

Contact address (work):

Research Institute of Electrical Communication, Tohoku University.

2-1-1 Katahira, Aoba-ku, Sendai, Miyagi 980-8577, Japan

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### Research area and interests

Primarily interest of the research field is to study the mechanism of human visual system, especially color vision; *how we perceive colors*. Also, understanding the flow of visual information in the brain is another recent research project. The methods used for the investigations are psychophysics, brain-activity measurements, patient studies, infant studies, and numerical modeling. The aim of research is to clarify the principle of information processing in the human brain, and to apply it to engineering applications.

### Education and Academic Positions

[Full-time appointments]

Tohoku University, Sendai, Japan

2006- present: Associate Professor

*Cognitive Brain Function laboratory, Research Institute of Electrical Communication,*

with Prof. Satoshi Shioiri (Visual Cognition and Systems laboratory).

Nippon Telegram and Telephone (NTT) Co. Ltd., Atsugi, Japan.

2001-2005: Research Scientist

with *Vision and Auditory Science group, NTT Communication Science Laboratories*, led by Drs.

Makio Kashino and Shin'ya Nishida.

University of Tokyo, Tokyo, Japan.

1999-2000: Research Associate (a full-time-faculty position now referred to as *Assistant Professor*)

at Department of Mathematical Engineering and Information Physics, Graduate School of Engineering, with Prof. Tsunehiro Takeda

Tokyo Institute of Technology, Yokohama, Japan

1996-1999: Research Associate (a full-time-faculty position now referred to as *Assistant Professor*) at Image Science and Engineering Institute, Faculty of Engineering and Science, with Prof. Keiji Uchikawa

[Part-time appointments]

RIKEN Center for Brain Science, Saitama, Japan

2016- now: Visiting Researcher at *fMRI support unit*, with Drs. Kang Cheng and Keiji Tanaka.

Japan Science and Technology Institute (JST), Tokyo, Japan

2010-2011: Visiting Fellow (part time officer for planning funding programs)

*Information and Communication Technology (ICT) Unit, Center for Research and Development Strategy (CRDS)*, led by Dr. Kunihiko Niwa.

Tokyo Institute of Technology, Yokohama, Japan

2002-2005: Visiting Associate Professor (a part-time faculty position, which accepts graduate students to work at NTT lab) *Department of Information Physics*, with Drs. Yoichi Tokura and Tatsuya Hirahara.

[Education]

Tokyo Institute of Technology Graduate School, Yokohama, Japan

1993-1996: Ph.D. course student,

*Department of Intelligence Science*, Advisor: Prof. Keiji Uchikawa

Degree: Ph.D., Thesis: *The Mechanisms Surface Color Constancy* (psychophysical study)

University of California San Diego, La Jolla, CA, U.S.A.

1993-1994: Visiting Graduate Student via *Overseas exchange programme* of the Ministry of Education, Japan

*Department of Psychology, Graduate School*, Advisor: Prof. Donald I.A. MacLeod

Tokyo Institute of Technology Graduate School, Yokohama, Japan

1991-1993: Master course student,

*Department of Intelligence Science*, Degree: M.Eng., Advisor: Prof. Keiji Uchikawa

Thesis: *The Limitations of Surface- and Apparent- Color Constancy* (psychophysical study)

University of Tokyo, Tokyo, Japan.

1986-1991: Bachelor course student,

*Department of Mathematical Engineering and Information Physics, Faculty of Engineering*, Degree:

Bachelor of Engineering, Advisor: Prof. Kaoru Nakano

Thesis: *In Consideration of Self Reproducing Automata* (Computer based simulations)

## Research Grants

### 1. Grant-in-Aid for Research (“KAKENHI”), Japan Society for the Promotion of Science (JSPS)

#### *As a Principal Investigator*

- 1) Grant-in-aid for Emerging Field of Study: FY2018-2019, Total amount of support: 6,400,000 JPY: “Property of human vision and SHITSUKAN perception in a wide luminance dynamic range.”
- 2) Grant-in-aid for Emerging Field of Study: FY2016-2017, Total amount of support: 6,100,000 JPY: “Effects of lower luminance component and cycles-per-item of textures on SHITSUKAN perception.”
- 3) Grant-in-aid for Basic Research Type B: FY2015-2017, Total amount of support: 15,300,000 JPY, “Study on the interactions of feed-forward/back signals in the human visual cortex.”
- 4) Grant-in-Aid for challenging Exploratory Research: FY2015-2017, Total amount of support: 2,900,000 JPY. “Measurement of spatial spreading of visual attention by using synthesized SSVEPs by presenting interocular difference in the temporal frequency of stimuli.”
- 5) Grant-in-aid for Emerging Field of Study: FY2013-2014, Total amount of support: 4,500,000 JPY: “Relationships between the mode of color appearance and material property perception, and its neural basis.”
- 6) Grant-in-aid for Basic Research Type B: FY2012-2015, Total amount of support: 13,300,000 JPY, “Study on the flows of element signal for the visual features in human brains.”
- 7) Grant-in-aid for Basic Research Type B: FY2009-2011, Total amount of support: 14,400,000 JPY, “Study on the separation and integration of visual information in human brains.”
- 8) Grant-in-aid for Young Investigators, Type A; FY1998-1999, Total amount of support: 2,100,000 JPY, “Study on the contribution of two mechanisms for color constancy in humans.”

#### *As a Co-investigator*

- 8) Grant-in-aid for Basic Research Type A: FY2015-2018, Total amount of support: 41,990,000 JPY, “Studies on the various type of static illusory figures that appear to move II.” Led by Prof. Akiyoshi Kitaoka (Ritsumeikan University).
- 9) Grant-in-aid for Basic Research Type A: FY2013-2015, Total amount of support: 46,000,000 JPY. “The mechanisms of color perception that compensates for individual variability in the population ratio among different cone types in the retina.” Led by Prof. Keiji Uchikawa (Tokyo Institute of Technology).
- 10) Grant-in-aid for Basic Research Type B: FY2010-2012, Total amount of support: 17,140,000 JPY, “Roles of parallel processing for visual motion perception” Led by Prof. Satoshi Shioiri (Tohoku University).
- 11) Grant-in-aid for Basic Research Type A: FY2010-2013, Total amount of support: 41,990,000 JPY,

- “Studies on the various type of static illusory figures that appear to move.” Led by Prof. Akiyoshi Kitaoka (Ritsumeikan University).
- 12) Grant-in-aid for Emerging Field of Study: FY2006-2007, Total amount of support: 8,600,000 JPY, “Conscious and unconscious process of visual information processing.” Led by Prof. Satoshi Shioiri (Tohoku University).
  - 13) Grant-in-aid for Basic Research Type B: FY2006-2008, Total amount of support: 17,140,000 JPY, “Study on the mechanisms of visual motion perception in terms of recognition and action pathways.” Led by Prof. Satoshi Shioiri (Tohoku University).
  - 14) Grant-in-aid for Basic Research Type A: FY2006-2008, Total amount of support: 41,990,000 JPY, “Studies on the mechanisms of static illusory figures that appear to move.” Led by Prof. Akiyoshi Kitaoka (Ritsumeikan University).
  - 15) Grant-in-aid for Basic Research Type B: FY2003-2005, Total amount of support: 10,000,000 JPY, “New thoughts on chromostereopsis” Led by Prof. Akiyoshi Kitaoka (Ritsumeikan University).
  - 16) Grant-in-aid for Basic Research Type C: FY1999-2000, Total amount of support: 3,600,000 JPY, “Measurement and quantification of characteristics of peripheral visual field in humans”. Led by Prof. Keiji Uchikawa (Tokyo Institute of Technology).

## 2. Other scholarships and Research grants

- 16) Japan Science and Technology Agency, “Behavior Understanding based on Intention-Gait Model” project in the Strategic Promotion of Basic Research (CREST) for “Creation of Human-Harmonized Information Technology for Convivial Society” programme to Prof. Yasushi Yagi (Osaka University: Leader), FY2010-2015. Joined FY2010-2015 as a co-investigator.
- 17) National Institute of Biomedical Innovation, Program for Promoting Basic Research in the field of Health and Medical Care “Rebuilding vision using optogenetic technology” to Prof. Hiroshi Tomita (Iwate Univ.). FY2010-2015. Total amount of support: 3,000,000 JPY, Joined FY2011-2012 as a co-investigator.
- 18) Japan Science and Technology Agency, “Study on higher order brain functions using magnetoencephalography” project in a Strategic Promotion of Basic Research (CREST) for “Build a Brain” programme to Prof. Tsunehiro Takeda (Univ. of Tokyo; Leader), FY1998-2003. Joined FY2000-2001 as a co-investigator.
- 19) Scholarship from CASIO Foundation for the Promotion of Science, 1996. Total amount of support: 900,000 JPY. “A study on the establishment of color-difference limit based on categorical color perception in humans.” Leader.
- 20) Scholarship for graduate students, from Foundation for the Promotion of Science and Engineering, 1993, Total amount of support: 300,000 JPY. “Mechanisms on Color constancy.” Leader.

## Publications

Peer-reviewed articles published in *English*

1. Takehiro Nagai, Yuta Hosaka, Tomoharu Sato, Ichiro Kuriki. (2018) Relative contributions of low- and high-luminance components to material perception. *Journal of Vision*, 18(13), 6, 1-19. doi:10.1167/18.13.6
2. Satoshi Shioiri, Kotaro Hashimoto, Kazumichi Matsumiya, Ichiro Kuriki, Sheng He (2018) Extracting the orientation of rating objects without object identification: object orientation induction. *Journal of Vision*, 18(9), 17. 1-12. doi: 10.1167/18.9.17
3. Sae Kaneko, David H. Peterzell, Ikuya Murakami, Ichiro Kuriki. (2018) Individual variability in simultaneous contrast for color and brightness: small-sample factor analyses reveal separate induction processes for short and long flashes. *i-Perception*,9(5), 1-22. doi: 10.1177/2041669518800507
4. Satoshi Shioiri, Masayuki Kobayashi, Kazumichi Matsumiya, Ichiro Kuriki. (2018) Spatial representations of the viewer's surroundings. *Scientific Reports* doi: 10.1038/s41598-018-25433-5
5. Ichiro Kuriki. (2018) A novel method of color-appearance simulation using achromatic point locus with lightness dependence. *i-Perception*, 9(2), 1-16. doi: 10.1177/2041669518761731
6. Sae Kaneko, Stuart Anstis, and Ichiro Kuriki. (2017) Brief presentation enhances various simultaneous contrast effects. *Journal of Vision*, 17(4), 7. doi:10.1167/17.4.7
7. Ichiro Kuriki, Ryan Lange, Yumiko Muto, Kazuho Fukuda, Rumi Tokunaga, Delwin T. Lindsey, Angela M. Brown, Keiji Uchikawa, and Satoshi Shioiri. (2017) The modern Japanese color lexicon. *Journal of Vision*, 17(3), 1. doi: 10.1167/17.3.1
8. Satoshi Shioiri, Hajime Honjyo, Yoshiyuki Kashiwase, Kazumichi Matsumiya, and Ichiro Kuriki. Visual attention spreads broadly but selects information locally. (2016) *Scientific Reports*. 6, 33513, doi: 10.1038/sprep35513
9. Ichiro Kuriki, Nobutaka Omori, Yoshiyuki Kashiwase, Kazumichi Matsumiya, Rumi Tokunaga, and Satoshi Shioiri. (2016) Measurement of object-based attention using steady-state visual evoked potentials. *Japanese Journal of Physiological Psychology and Psychophysiology*. 33(1), 33-46. doi: 10.5674/jjppp.1505si
10. Jiale Yang, So Kanazawa, Masami Yamaguchi, and Ichiro Kuriki. (2016) Cortical response to categorical color perception in infants investigated by near-infrared spectroscopy. *Proceedings of National Academy of Sciences of the United States of America*. 113(9), 2370-2375. doi: 10.1073/pnas.1512044113
11. Tomoharu Sato, Takehiro Nagai, Ichiro Kuriki, and Shigeki Nakauchi. (2016) Dissociation of Equilibrium Point for Color-Discrimination and Color-Appearance Mechanisms Under Incomplete Chromatic Adaptation. *Journal of the Optical Society of America A*, 33(3), A150-A163. doi: 10.1364/JOSAA.33.00A150

12. Ichiro Kuriki, Nobutaka Omori, Yoshiyuki Kashiwase, Rumi Tokunaga, Kazumichi Matsumiya, and Satoshi Shioiri. Measurement of object-based attention with steady-state visual evoked potential. *Japanese Journal of Physiological Psychology and Psychophysiology*. doi: 10.5674/jjppp.1505si, Advance publication: [https://www.jstage.jst.go.jp/article/jjppp/advpub/0/advpub\\_1505si/\\_pdf](https://www.jstage.jst.go.jp/article/jjppp/advpub/0/advpub_1505si/_pdf)
13. Ryoichi Nakashima, Yu Fang, Yasuhiro Hatori, Akinori Hiratani, Kazumichi Matsumiya, Ichiro Kuriki, and Satoshi Shioiri. (2015) Saliency-based gaze prediction based on head direction. *Vision Research*, 117, 59-66. doi: 10.1016/j.visres.2015.10.001
14. Ichiro Kuriki, Pei Sun, Kenichi Ueno, Keiji Tanaka, and Kang Cheng. (2015) Hue selectivity of neurons in human visual cortex revealed by BOLD fMRI. *Cerebral Cortex*, 25, 4869-4884. doi: 10.1093/cercor/bhv198
15. Kazumichi Matsumiya, Mitsumasa Takahashi, Ichiro Kuriki, and Satoshi Shioiri. (2015) Active movements generate rotation-independent representations for haptic movements. *Interdisciplinary Information Sciences*, 21(2), 115-123. doi: 10.4036/iis.2015.A.02
16. Ichiro Kuriki. (2015) Effect of material perception on mode of color appearance. *Journal of Vision*, 15,8,4. doi: 10.1167/15.8.4.
17. Yu Fang, Ryoichi Nakashima, Kazumichi Matsumiya, Ichiro Kuriki, & Satoshi Shioiri (2015). Eye-Head Coordination for Visual Cognitive Processing. *PLoS One*, 10(3): e0121035. doi: 10.1371/journal.pone.0121035.
18. Yu Fang, Masaki Emoto, Ryoichi Nakashima, Kazumichi Matsumiya, Ichiro Kuriki & Satoshi Shioiri (2015). Eye-position distribution depending on head orientation when observing movies on Ultrahigh-Definition Television. *ITE Transactions on Media Technology and Applications* 3 (2), 149-154.
19. Ichiro Kuriki (2015). Lightness dependence of achromatic point loci in color-appearance coordinates. *Frontiers in Psychology*, 6:67. doi: 10.3389/fpsyg.2015.00067
20. Koji Horiuchi, Ichiro Kuriki, Rumi Tokunaga, Kazumichi Matsumiya and Satoshi Shioiri. Chromatic Induction from Surrounding Stimuli under Perceptual Suppression. *Visual Neuroscience*, 2014.
21. Satoshi Shioiri, Takanori Yamazaki, Kazumichi Matsumiya, and Ichiro Kuriki. Rotation-independent representations for haptic movements. *Scientific Reports*, Article No.2595, doi:10.1038/srep02595.
22. Yoshiyuki Kashiwase, Kazumichi Matsumiya, Ichiro Kuriki, Satoshi Shioiri. Temporal Dynamics of Visual Attention Measured with Event-Related Potentials. *PLoS One* 8(8): e70922. doi:10.1371/journal.pone.0070922.
23. Jiale Yang, So Kanazawa, Masami K. Yamaguchi, and Ichiro Kuriki, Investigation of color constancy in 4.5-month-old infants under a strict control of luminance contrast for individual subjects. *Journal of Experimental Child Psychology*, 115, 126-136, 2013. Doi: 10.1016/j.jecp.2012.11.013
24. Taiga Tsuchiai, Kazumichi Matsumiya, Ichiro Kuriki, and Satoshi Shioiri, Implicit learning of

- viewpoint-independent spatial layouts. *Frontiers in Psychology*, **3**, 207, 2012. doi: 10.3389
25. Yoshiyuki Kashiwase, Kazumichi Matsumiya, Ichiro Kuriki, and Satoshi Shioiri. Time courses of attentional modulation in neural amplification and synchronization measured with steady-state visual-evoked potentials. *Journal of Cognitive Neuroscience*, **24**(8), 1779-1793, 2012. doi: 10.1162/jocn\_a\_00212
  26. Hiroshi Ashida, Ichiro Kuriki, Ikuya Murakami and Akiyoshi Kitaoka. Direction-specific fMRI adaptation reveals the visual cortical network underlying the "Rotating Snakes" illusion. *NeuroImage*, **61**, 1143-1152, 2012.
  27. Ichiro Kuriki, Shingo Nakamura, Pei Sun, Kazumichi Matsumiya, Kenichi Ueno, Keiji Tanaka, Satoshi Shioiri and Kang Cheng. Decoding Color Responses in Human Visual Cortex. *IEICE*, E94-A, 2, 473-479, 2011.
  28. Takaaki Kitakawa, Satoshi Nakadomari, Ichiro Kuriki, and Kenji Kitahara. Evaluation of early state of cyanopsia with subjective color settings immediately after cataract removal surgery. *Journal of the Optical Society of America A*, **26** (6), 1375-1381, 2009.
  29. Kazumichi Matsumiya, Hideki Sugiyama, Satoshi Shioiri, and Ichiro Kuriki. Influence of auditory information on reading speed and eye movement control in reading. *Kansei Engineering International*, **98** (2), 221-228, 2009.
  30. Ichiro Kuriki, Hiroshi Ashida, Ikuya Murakami & Akiyoshi Kitaoka. Functional brain imaging of the Rotating Snakes illusion by fMRI, *Journal of Vision*, **8** (10): 16, 1-10, 2008.
  31. Ichiro Kuriki, Aftereffect of contrast adaptation to a chromatic notched-noise stimulus. *Journal of the Optical Society of America A*, **24**, 1858-1872, 2007.
  32. Shin'ya Nishida, Junji Watanabe, Ichiro Kuriki and Toyotaro Tokimoto. Human visual system integrates color signals along motion trajectory. *Current Biology*, **17**, 366-372, 2007.
  33. Ichiro Kuriki, The loci of achromatic points in a real environment under various illuminant chromaticities. *Vision Research*, **46**, 3055-3066, 2006.
  34. Akiyoshi Kitaoka, Ichiro Kuriki and Hiroshi Ashida. The center-of-gravity model of chromostereopsis. *Ritsumeikan Journal of Human Sciences*, 59-64, 2006.
  35. Kaoru Amano, Ichiro Kuriki and Tsunehiro Takeda. Direction-specificity of magnetic responses to motion onset. *Vision Research*, **45** (19), 2533-2548, 2005.
  36. Ichiro Kuriki, Kenji Sadamoto and Tsunehiro Takeda: MEG recording from the human ventro-occipital cortex in response to isoluminant colour stimulation, *Visual Neuroscience*, **22**(3), 283-293, 2005.
  37. Ichiro Kuriki, Testing the possibility of average-color perception from multi-colored stimulus. *Optical Review*, **11**(4), 249-257, 2004.
  38. Kinjiro Amano, Keiji Uchikawa and Ichiro Kuriki: Characteristics of color memory for natural scenes,

*Journal of the Optical Society of America A*, **19** (8): 1501-1514, 2002.

39. Keiji Uchikawa, Kowa Koida, Tomohiro Meguro, Yasuki Yamauchi and Ichiro Kuriki: Brightness, not luminance, determines transition from the surface-color to the aperture-color mode for colored lights, *Journal of the Optical Society of America A*, **18**(4), 737-746, 2001.
40. Ichiro Kuriki, Yukio Oguma and Keiji Uchikawa: Dynamics of Asymmetric Color Matching, *Optical Review*, **7**(3), 249-259, 2000. Achieved *Best Paper Award (2000)* from the Optical Society of Japan (Japan Society for Applied Physics).
41. Ichiro Kuriki and Keiji Uchikawa: Adaptive Shift of Visual Sensitivity Balance Under Ambient Illuminant Change. *Journal of the Optical Society of America A*, **15**(9), 2263-2274, 1998.
42. Ichiro Kuriki and Donald I.A. MacLeod : Chromatic Adaptation Aftereffects on Luminance and Chromatic Channels. in *John Dalton's Colour Vision Legacy*, Christopher M. Dickinson, I.J. Murray and David Carden Ed., Taylor and Francis (London), 73-83, 1998.
43. Keiji Uchikawa, Ichiro Kuriki and Yuzuru Tone: Measurement of Color Constancy by Color Memory Matching, *Optical Review*, **5**(1), 5-63, 1998.
44. Ichiro Kuriki and Keiji Uchikawa: Limitations of Surface-Color and Apparent-Color Constancy. *Journal of the Optical Society of America A*, **13**(8), 1622-1636, 1996.

Peer-reviewed articles published in *Japanese*

1. Takanori Yamazaki, Kazumichi Matsumiya, Ichiro Kuriki, and Satoshi Shioiri. The influence of spatial representation on pointing task. *VISION*, **22**(3), 149-163, 2010. Achieved the *Best Paper Award (2011)* from the Vision Society of Japan.
2. Ichiro Kuriki, Satoshi Nakadomari, and Kenji Kitahara. A case of extreme simultaneous color-contrast in a patient with hypoxic encephalopathy. *VISION*, **15**(4), 233-244, 2003.
3. Kaoru Amano, Ichiro Kuriki, Takashi Owaki, and Tsunehiro Takeda. Brain Activity during the Motion Aftereffect Analyzed by Magnetoencephalogram. *Japanese Journal of Medical Electronics and Biological Engineering*, **39**(3), 213-224, 2001.
4. Ichiro Kuriki, Wataru Ishii, and Keiji Uchikawa. Effect of Crystalline-lens Cataract on Color Perception. *Japanese Journal of Light and Visual Environment*, **84**(2), 107-116, 2000.
5. Kaori Segawa, Keiji Uchikawa, and Ichiro Kuriki. Categorical Color Perception in Peripheral Vision. *Japanese Journal of Light and Visual Environment*, **83**(11), 860-868, 1999.
6. Masahiro Saito, Satoshi Nakadomari, Kenji Kitahara, Ichiro Kuriki, and Keiji Uchikawa. A measurement of visual extinction by contrast threshold of luminance grating. *VISION*, **11**(4), 161-169, 1999.
7. Kazumichi Matsumiya, Keiji Uchikawa, and Ichiro Kuriki. Change in Contrast Sensitivity in the Peripheral Visual Field by Central Visual Task and Observation under the Condition with Eye



- Movements. *Japanese Journal of the Institute of Image Information and Television Engineers*, **52**(4), 565-570, 1998.
8. Yasuki Yamauchi, Keiji Uchikawa, and Ichiro Kuriki. Luminance Limit for Surface-Color Mode Perception. *Japanese Journal of the Institute of Image Information and Television Engineers*, **52**(2), 227-234, 1998.
  9. Keiji Uchikawa, Ichiro Kuriki, The Effects of Surround Stimulus and Color Matching Criterion on Simultaneous Color Constancy. *Japanese Journal of Light and Visual Environment*, **79**(2), 39-49, 1995.
  10. Keiji Uchikawa, Ichiro Kuriki and Hiroyuki Shinoda, Expression of Color Appearance in Aperture and Surface Color Modes with A Category Rating Estimation Method. *Japanese Journal of Light and Visual Environment*, **78**(2), 83-93, 1994.
  11. Keiji Uchikawa, Ichiro Kuriki and Hiroyuki Shinoda, Categorical Color-Name Regions of A Color Space in Aperture and Surface Color Modes. *Japanese Journal of Light and Visual Environment*, **77**(6), 74-82, 1993.
  12. Ichiro Kuriki, Keiji Uchikawa, “Two stages of color constancy: complete and incomplete color constancy.” *Journal of Illuminant Engineering Society of Japan*. **81**(2), 125-135, 1997. (Best paper award)

## Honors, Awards

- 1 Best Paper Award of *Vision Society of Japan* (2011)
- 2 Best Presentation Award of *Kansei Engineering Society of Japan* (2009)
- 3 Research Promotion Award from *Minoru Ishida Memorial Foundation* (2007)
- 4 Best Paper Award of *Optical Society of Japan* (2000)
- 5 Best Paper Award of *Japanese Journal of Light and Visual Environment* (1988)

## Invited talks at international conferences

1. Keynote lecture at *Asia Color Association conference 2018*, Chiang Mai, Thailand. 12/7/2018. “Study on color category in Japanese by using a clustering analysis.”
2. Lecture at *Zhejiang Interdisciplinary Institute of Neuroscience and Technology, Zhejiang University*, Hangzhou, China. 10/19/2018. “Color Perception and its Representation in Human Visual Cortex.”
3. Keynote speaker at *Color Association of Taiwan conference*, Taipei, Taiwan. 11/25/2017. “Color representation in human visual cortex and color names.”
4. Tutorial lecture at *Tatung University*, Taipei. 11/24/2017. “Aging effects on human color vision.”
5. Invited speaker at symposium “Hacking Vision with Psychophysics and Functional Imaging”, in

- Japan Neuroscience Society Annual meeting*, Makuhari, Chiba, Japan. 7/20/2017. “Study on hue selectivity in human visual cortex by fMRI”
6. Invited speaker at *RIKEN BSI forum*, Japan, 7/19/2017. “Color representation in human visual cortex.” Color Perception and its Representation in Human Visual Cortex.
  7. Invited speaker at *Vision Science Conference*, in Qufu, China, 6/30/2017. “Hue selectivity in human visual cortex.”
  8. Invited speaker at Tsinghua University, Beijing, China, 6/29/2017. “Color representations in higher and lower levels of human visual cortex.”
  9. Invited speaker at Institute of Biophysics, Chinese Academy of Science, Beijing, China. 6/29/2017. “Color representations in higher and lower levels of human visual cortex.”
  10. Invited speaker at Beijing Normal University, Beijing, China. 6/28/2017. “Cortical response to categorical color differences in pre-linguistic infants as measured by NIRS.”
  11. Invited speaker at *Symposium “Seeing Colors: International symposium on color vision”*, Regensburg, Germany, 9/19-21/2016. “Cortical response to categorical colors in infants.”
  12. Invited speaker at *CiNet seminar*, Osaka, 11/19/2015. “Representation of color in human brain at higher and lower levels.”
  13. Invited speaker at *Vision Talk*, Department of Psychology, U.C., San Diego, San Diego, CA, 10/23/2015. “Hue selectivity of human visual cortex revealed by fMRI.”
  14. Invited speaker at *International workshop on “Level-processing of color vision - optics, cone and color perception”*, Yokohama, 3/4/2015. “Color selectivity of neurons in human visual cortex revealed by fMRI.”
  15. Invited speaker at *10<sup>th</sup> AEARU workshop on Computer Science and Web Technology*, University of Tsukuba, 2/26/2015. “Measurement of the internal representation and flow of visual information in human visual cortex.”
  16. Co-invited speaker at *Symposium “Infant Visual Perception and Beyond” in Asia-Pacific Conference on Vision*, Takamatsu, 7/22/2014. “Development of Categorical Color perception in Infants.”
  17. Invited speaker at *International Symposium on Color and Physiological Optics*, Tokyo Institute of Technology, 3/1/2013. “Multiple-channel color representation in the human brain.”
  18. Invited speaker at *IMQA2010*, Tokyo, 5/14/2010. “Decoding color responses in human visual cortex.”
  19. Invites speaker at *Basic Color Vision Science Meeting*, Tokyo, Jan. 26, 2008. “Color representation at the 'mid-level' of human visual system,”
  20. Invited speaker at *International symposium of the Color Science Association of Japan*, Tokyo, Oct.26, 2007. “Color representation in human visual cortex.”
  21. Invited speaker at Mini symposium “Colour and art in the brain” *The Jikei Univ. School of Medicine*, 8/3/2006. “Assessment of Color Constancy in Brain- Damaged Patient with Color Chart.”
  22. Invited speaker at *Riken BSI Forum*, 2004. “A study on slow changes in chromatic-contrast

sensitivity by using psychophysics and functional MRI.”

(additional 28 invited talks and lectures *given in Japanese* at domestic conferences)

### Presentations at international conferences (all *peer reviewed*; chronological order)

- 1 Ichiro Kuriki and Keiji Uchikawa: S-cone System Does Not Contribute to Perfect Simultaneous Color Constancy. Optical Society of America 1993 Annual Meeting Technical Digest, 252, 1993.
- 2 Ichiro Kuriki and Donald I. A. MacLeod: Dynamics of Chromatic Adaptation Aftereffect. International Forum of Color 1994, VISON, 6(3), 124, 1994.
- 3 Ichiro Kuriki and Keiji Uchikawa: Multi Stage Model for Color Constancy. 17th European Conference on Visual Perception, Perception, 23(sppl.), 87, 1994.
- 4 Ichiro Kuriki and Donald I.A. MacLeod: Slow Chromatic Adaptation and Asymmetric Threshold Elevation. Association for the Research in Vision and Ophthalmology annual meeting; Investigative Ophthalmology and Visual Science, 36, s663 1995.
- 5 Ichiro Kuriki and Keiji Uchikawa: Distinction Between Two Classes of Color Constancy. Association for the Research in Vision and Ophthalmology annual meeting; Investigative Ophthalmology and Visual Science, 37, s1065, 1996.
- 6 Ichiro Kuriki and Keiji Uchikawa: Effect of Ambient Illuminant on Surface Colour Constancy. European Conference on Visual Perception; Perception, 26(sppl.), 108 1997.
- 7 Ichiro Kuriki and Keiji Uchikawa: Color Constancy After Change in Visual Sensitivity. AIC Color 97 Kyoto, Proceedings of the 8th congress of the International Colour Association, 1, 155-158, 1997.
- 8 Yasuki Yamauchi, Keiji Uchikawa and Ichiro Kuriki; Effects of chromaticity on the upper limit of luminance for surface color mode perception. AIC Color 97 Kyoto, Proceedings of the 8th congress of the International Colour Association, 1, 187-190, 1997.
- 9 Keiji Uchikawa, Ichiro Kuriki and Yuzuru Tone; Influence of color memory on color constancy. AIC Color 97 Kyoto, Proceedings of the 8th congress of the International Colour Association, 1, 211-214, 1997.
- 10 Kinjiro Amano, Keiji Uchikawa and Ichiro Kuriki; Chromatic enhancement of colored pictures in memory. AIC Color 97 Kyoto, Proceedings of the 8th congress of the International Colour Association, 1, 239-242, 1997.
- 11 Kaori Segawa, Ichiro Kuriki and Keiji Uchikawa; Categorical color perception in peripheral visual field. AIC Color 97 Kyoto, Proceedings of the 8th congress of the International Colour Association, 1, 243-246, 1997.
- 12 Yuki Ito, Keiji Uchikawa and Ichiro Kuriki; Chromatic and luminous conditions of overlapping area for transparency. AIC Color 97 Kyoto, Proceedings of the 8th congress of the International Colour Association, 1, 298-301, 1997.
- 13 Kouwa Koida, Ichiro Kuriki and Keiji Uchikawa; Measurement of color-difference judgement-boundaries in a color-space. AIC Color 97 Kyoto, Proceedings of the 8th congress of the International Colour Association, 1, 306-309, 1997.
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(additional 232 presentations *made in Japanese* at domestic conferences)



## Lectures

### Regular Course lectures

#### Tohoku University

Undergraduate School, 3<sup>rd</sup> year, winter semester: *Numerical Analysis* (2 credits: 1.5 x 16 hours: 2006 - now). This course teaches numerical analyses on digital computer and various methods to solve questions: simultaneous equations; nonlinear interpolations; nonlinear equations; integrations, and ordinary differential equations.

Graduate School, summer semester: *Higher Order Human Vision Mechanisms* (2 credits: 1.5 x 16 hours; by 2 lecturers; 2006 - now). This course teaches basic phenomena of color vision and its underlying mechanisms, including functional imaging (fMRI, MEG, EEG, fNIRS) in human subjects.

#### University of Tokyo

Department of Mathematical Engineering and Information Physics *Training Session* (3 credits: 1.5 x 2 x 16 hours; 1999-2001). Psychophysical methods of measuring visual performance: practice *method of constant stimuli* and *adaptive methods* to measure contrast thresholds.

#### Tokyo Institute of Technology Graduate School

Graduate School: *Mechanisms of Visual Information Processing* (2 credits: 1.5 x 16 hours; by 3 lecturers; 2002-2005) This course teaches basic phenomena of color vision and its underlying mechanisms, including functional imaging (fMRI, MEG, EEG, fNIRS) in human subjects.

### Intensive Lectures

#### Tsinghua University / Chinese Academy of Sciences (co-sponsored; both at Beijing, China)

Graduate School: *The Basics of Color Vision* (2 credits: 2 x 16 hours; July 17-27, 2018). This lecture teaches basics of colorimetry, physiology, psychophysics of human color vision. Included two practice sessions on monitor calibration and color categories.

#### Lectures at High Schools: “Let’s talk about Brain Science: An approach from vision to brain”

given at Oyamadai H.S. (Tokyo, 2014), Hoshino Gakuen H.S. (Saitama, 2014), Kakegawa West H.S. (Shizuoka, 2016), Hitachi Dai-ichi H.S. (Ibaraki, 2016), Yokote H.S. (Akita, 2017 and 2018) for 2nd. year high school students; approx. 2 hours for each.

### Number of Supervised Thesis (as a primary supervisor)

Undergraduates: 15 (5: T.I.T., 4: U.Tokyo, 6: Tohoku U.)

Master course: 22 (10: T.I.T., 4: U.Tokyo, 8: Tohoku U.)

Ph.D course: 5 (3: T.I.T., 1: U.Tokyo, 1: Tohoku U.)