

# Gouki Okazawa, Ph.D.

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## **Education and Professional Appointments**

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- 2021 – Laboratory Head, *Center for Excellence in Brain Science and Intelligence Technology, Institute of Neuroscience, Chinese Academy of Sciences*
- 2015 – 2021 Postdoctoral Fellow, *New York University*  
Advisor: Roozbeh Kiani
- 2013 – 2015 Postdoctoral Fellow, *National Institute for Physiological Sciences, Japan*  
Advisor: Hidehiko Komatsu
- 2008 – 2013 Ph.D., Neuroscience, *The Graduate University for Advanced Studies, Japan*  
Advisor: Hidehiko Komatsu  
March 22, 2013, Ph.D. awarded
- 2004 – 2008 B.A., *Kyoto University, Japan*  
Advisor: Shintaro Funahashi

## **Grants and Fellowships**

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- 2022 – 2025 Chinese Academy of Sciences, Startup grant (The Hundred People Program)
- 2021 – 2026 National Science and Technology Innovation 2030 Major Program, China
- 2017 – 2020 The Charles H. Revson Senior Fellowship in Biomedical Science
- 2015 – 2017 Postdoctoral Fellowship for Research Abroad, Japan Society for the Promotion of Science
- 2011 – 2013 Research Fellowship for Young Scientists, Japan Society for the Promotion of Science

## **Bibliography**

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### Original papers

1. **Okazawa G**, Sha L, Kiani R. (2021) Linear integration of sensory evidence over space and time underlies face categorization. *Journal of Neuroscience*, 41:7876-7893
2. **Okazawa G**, Hatch CE, Mancoo A, Machens CK, Kiani R. (2021) Representational geometry of perceptual decisions in the monkey parietal cortex. *Cell*, 184:3748-3761
3. Waskom ML, **Okazawa G**, Kiani R. (2019) Designing and Interpreting Psychophysical Investigations of

Cognition [invited review]. *Neuron*, 104(1):100-112

4. **Okazawa G**, Sha L, Purcell BA, Kiani R. (2018) Psychophysical reverse correlation reflects both sensory and decision-making processes. *Nature Communications*, 9:3479
5. **Okazawa G**, Tajima S, Komatsu H. (2016) Gradual development of visual texture-selective properties between macaque areas V2 and V4. *Cerebral Cortex*, 27(10):4867-4880
6. **Okazawa G**, Tajima S, Komatsu H. (2015) Image statistics underlying natural texture selectivity of neurons in macaque V4. *Proceedings of National Academy of Sciences, USA*, 112(4):E351-60.  
\* Featured by Ziemba CM, Freeman J. (2015) *PNAS* 112(4):942-943
7. Namima T, Yasuda M, Banno T, **Okazawa G**, Komatsu H. (2014) Effects of luminance contrast on the color selectivity of neurons in the macaque area v4 and inferior temporal cortex. *Journal of Neuroscience*, 34(45): 14934-47.
8. Goda N, Tachibana A, **Okazawa G**, Komatsu H. (2014) Representation of the material properties of objects in the visual cortex of nonhuman primates. *Journal of Neuroscience*, 34(7), 2660-73.
9. Koida K, Yokoi I, **Okazawa G**, Mikami A, Widayati KA, Miyachi S, Komatsu H. (2013) Color vision test for dichromatic and trichromatic macaque monkeys. *Journal of Vision*, 13(3), 1:1-15.
10. **Okazawa G**, Funahashi S. (2013) Short-term memory of the amplitude of body rotation in orienting behavior of African clawed frog (*Xenopus laevis*). *ISRN Zoology*, Article ID: 734040.
11. **Okazawa G**, Komatsu H. (2013) Image statistics for golden appearance of a painting by a Japanese edo-era artist Jakuchu Ito. In: *Lecture Notes in Computer Science* 7786: Computational Color Imaging (Tominaga R et al., eds). pp 68-79.
12. Komatsu H, Nishio A, **Okazawa G**, Goda N. (2013) 'Yellow' or 'Gold'? : Neural Processing of Gloss Information [invited review]. In: *Lecture Notes in Computer Science* 7786: Computational Color Imaging (Tominaga R et al., eds). pp 1-12.
13. **Okazawa G**, Goda N, Komatsu H. (2012) Selective responses to specular surfaces in the macaque visual cortex revealed by fMRI. *NeuroImage*, 63, 1321-33.
14. **Okazawa G**, Koida K, Komatsu H. (2011) Categorical properties of the color term "GOLD". *Journal of Vision* 11(8), 1-19.

## Honors and Awards

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| 2021 | Selected as a speaker in a talk session at Cosyne 2021 (30 among 645 submissions)                                      |
| 2020 | The 29th Most Liked Title of the Talk (29/1409), The 43 <sup>rd</sup> Annual Meeting of the Japan Neuroscience Society |
| 2016 | Cold Spring Harbor Laboratory Summer Course "Computational Neuroscience: Vision"<br>Attendee                           |
| 2010 | Best presentation award, Comprehensive Brain Science Network, Japan  |

2009 Best presentation award, The Graduate University for Advanced Studies

### **Invited talks**

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2022/6 National Institute for Physiological Sciences, Okazaki, Japan  
2021/11 Kyoto University, Kyoto, Japan  
2021/9 Barccsyn Webinar (online), Barcelona  
2021/9 Motor Control Meeting (online), The Japanese Society for Motor Control  
2020/8 Center for Information and Neural Networks (online), Osaka, Japan  
2018/12 University of Washington, Seattle, WA  
2018/12 Columbia University, New York, NY  
2018/7 RIKEN Center for Brain Science, Wako, Japan  
2018/3 Center for Information and Neural Networks, Osaka, Japan  
2018/3 Tamagawa University, Tokyo, Japan  
2018/3 RIKEN Center for Brain Science, Wako, Japan  
2014/3 New York University, New York, NY  
2013/11 Massachusetts Institute of Technology, Boston, MA

### **Teaching experience**

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2022.4. Systems Neuroscience course, University of Chinese Academy of Sciences  
2019-2021 Mentored a M.S. student  
2020/7 Mentor in an online neuroscience summer school (Neuromatch Academy)  
2019 Mentored a Ph.D. student  
2018 Mentored an undergraduate student  
2015 Mentored an undergraduate student  
2009-14 Teaching Assistant, Summer Training Course for undergraduate and graduate students, National Institute for Physiological Sciences, Japan  
2010/12 Teaching Assistant, Vision science class for junior high school students, Aichi, Japan

### **Journal peer review**

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Nature Neuroscience, Nature Communications, Trends in Cognitive Science, Journal of Neuroscience, Journal of Cognitive Neuroscience, eNeuro, Scientific Reports, Frontiers in Human Neuroscience, Neuroscience Bulletin, Behavioral Research Methods, Color Research & Application, *i*-Perception, Cognitive Computation, Journal of Perceptual Imaging

### **Service and Outreach**

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2019 Wrote news for the public: Okazawa G (2019) "How can we infer neural mechanisms from

- correlations between sensory inputs and behaviors?" *In Neuroscience News*, vol.217, The Japan Neuroscience Society
- 2017/4 Introductory lecture of systems neuroscience at a public class, New York, NY
- 2016 Wrote news for the public: Okazawa G (2016) "Interview with JSPS fellow in the U.S." JSPS SF Newsletter vol. 39.
- 2014/10 Created and presented visual science demos for the public at an open house of National Institute for Physiological Sciences, Japan
- 2012/8 Translated an introductory review to Japanese: "Tactile texture perception" by Takashi Yoshioka, *Seitai-no-Kagaku* (2012) 63(4):263-275
- 2011/11 Created and presented visual science demos for the public at National Museum of Emerging Science and Innovation, Japan
- 2011/9 Created and presented visual science demos for the public at an open house of National Institute for Physiological Sciences, Japan

### **Leadership experience**

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- 2020 – 2021 Postdoc organizer, The Simons Collaboration on the Global Brain (SCGB), NY-area postdoc/student meeting
- 2014 – 2015 Committee member, Society for Young researchers on Neuroscience, Japan
- 2012 Committee member, Life Science Retreat, National Institute for Physiological Sciences, Japan

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