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Education and Professional Appointments

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

2025 – 2026	Research Fund for International Scientists, National Natural Science Foundation of China
2023 – 2028	Mianshang Program, National Natural Science Foundation of China
2023 – 2025	Excellent Young Scientists Program, National Natural Science Foundation of China
2022 – 2024	Laboratory Startup Program, Chinese Academy of Sciences
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

Preprint

1. Zheng Z, Hu J, **Okazawa G** (*2024*) Spatiotemporal evidence accumulation through saccadic sampling for object recognition. ***bioRxiv***, https://www.biorxiv.org/content/10.1101/2024.09.05.611201v2

Published

2. Luo T, Xu M, Zheng Z, **Okazawa G** (*2025*) Limitation of switching sensory information flow in flexible perceptual decision making. ***Nature Communications***, 16:172
3. Ogasa K, Yokoi A, **Okazawa G**, Nishigaki M, Hirashima M, Hagura N (2024) Decision uncertainty as a context for motor memory. ***Nature Human Behaviour***, 8:1738-1751
4. **Okazawa G**, Kiani R. (*2023*) Neural Mechanisms that Make Perceptual Decisions Flexible [invited review]. ***Annual Review of Physiology***, 85:191-215
5. **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
6. **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
7. Waskom ML, **Okazawa G**, Kiani R. (2019) Designing and Interpreting Psychophysical Investigations of Cognition [invited review]. ***Neuron***, 104(1):100-112
8. **Okazawa G,** Sha L, Purcell BA, Kiani R. (2018) Psychophysical reverse correlation reflects both sensory and decision-making processes. ***Nature Communications***, 9:3479
9. **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
10. **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) in the same issue (112(4):942-943)
11. 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.
12. 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.
13. 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.
14. **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.
15. **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.

16. 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.

17. **Okazawa G**, Goda N, Komatsu H. (2012) Selective responses to specular surfaces in the macaque visual cortex revealed by fMRI. ***NeuroImage****,* 63, 1321-33.

18. **Okazawa G**, Koida K, Komatsu H. (2011) Categorical properties of the color term "GOLD". ***Journal of Vision*** 11(8), 1-19.

Honors and Awards

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 43rd Annual Meeting of the Japan Neuroscience Society
2016	Cold Spring Harbor Laboratory Summer Course "Computational Neuroscience: Vision" Attendee
2010	Best presentation award, Comprehensive Brain Science Network, Japan
2009	Best presentation award, The Graduate University for Advanced Studies

Invited talks

2025/2	Shanghai Jiaotong University, Shanghai, China
2024/10	Yanqi Youth Forum for Brain Science Frontiers, Shanghai, China
2024/9	CHAIN seminar, Hokkaido University, Hokkaido, Japan
2024/9	34th Annual Meeting of the Japanese Neural Network Society, Hokkaido, Japan
2023/6	Zhejiang University, Hanzhou, China
2023/3	The 8th CiNet Conference "Beyond Motor Control: Bridging the gap between action and perception", Osaka, Japan
2023/2	The 4th Conference on New Technology of Primate Neuroscience, Tokyo, Japan
2022/12	The 52nd NIPS International Symposium on "Frontiers in Primate Systems Neuroscience", Okazaki, Japan
2022/10	Neuron@noon seminar, CNIR, SungKyunKwan University, Korea
2022/9	The 25th Vision Science Forum, Okazaki, Japan
2021/9	Barccsyn Webinar, Barcelona, Spain
2021/9	The 15th Motor Control Meeting, The Japanese Society for Motor Control, Japan
2020/8	Center for Information and Neural Networks, 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

Journal peer review

Behavioral Research Methods, Cell Reports, Color Research & Application, Cognitive Computation, eNeuro, Frontiers in Human Neuroscience, *i*-Perception, iScience, Journal of Cognitive Neuroscience, Journal of Neuroscience, Journal of Perceptual Imaging, PLOS Biology, PLOS Computational Biology, Progress in Neurobiology, Nature, Nature Communications, Nature Neuroscience, Neuron, Neuroscience Bulletin, Science Advances, Scientific Reports, Trends in Cognitive Sciences

Service/Organizer experience

2024 – 2025	COSYNE program committee
2022 – Present	Seminar series committee, Institute of Neuroscience
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

Teaching

2024/4	Principles of Neuroscience course, University of Chinese Academy of Sciences
2023/4	Principles of Neuroscience course, University of Chinese Academy of Sciences
2022/4	Systems Neuroscience course, University of Chinese Academy of Sciences
2020/7	Mentor in an online neuroscience summer school (Neuromatch Academy)
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

Mentoring/Trainees

Postdoctoral fellow

| 2022 – | Jiahao Wu |

Graduate student

| 2022 – | Tianlin Luo |

2022 –	Jiaqi Hu
2023 –	Han Zhang
2023 –	Zixuan Li
2025 –	Sijie Wei

Master's student

2019 – 2021	Yuki Minai

Research assistant

2024 –	Zhaojiayi (Valeria) Zhou
2021 – 2024	Zhihao Zheng
2021 –	Mengya Xu

Undergraduate student

2024 –	Qiao Wang

Outreach

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.

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