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Keigo Tada

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Work Experience

Sony Semiconductor Solutions Apr.2024 – present
R&D Department: AI & Computer Vision Algorithm Development Tokyo, Japan

Education

Ritsumeikan University Apr.2022 – Mar.2024
Graduate school of Information Science and Engineering Shiga, Japan
Supervisor: Katsunori Kitano
Research Topic: Computational Neuroscience, Simulation, Opthalomology, Retina, Retinitis pigmentosa, Photopsia

Ritsumeikan University Apr.2018 – Mar.2022
College of Information Science and Engineering Shiga, Japan
Supervisor: Katsunori Kitano

Internship

Hutzper Inc. Dec.2020 – Sep.2023
AI engineer(Computer Vision) Osaka, Japan
AI development, Image processing, PoC for introducing AI to manufacturing industry

Research Assistant in Computer Vision Apr.2022 – Mar.2024
Supervisor: Hiroki Naganuma Online
Research Topic: Out-of-Distribution Generalization, Uncertainty, Calibration
IJCNN2023(Travel Grant), Student Encouragement Award - IPSJ2023

Research Assistant in Social Computing May.2020 – Jul.2020
Supervisor: Ryota Gamo Online
Research Topic: Text Mining, Twitter Data Analysis

Skills

Programming: Python, C, Shell script
Framework: Pytorch, NEURON, Git, Docker
Languages: Japanese(Native), English(CEFR: Reading/C1, Listenning/C1, Writing/C1, Speaking/no score)

Publications during BA & MA Information Science and Engineering

Peer-Reviewed Journal Publications

Sho Horie, Konan Sakuta, Keigo Tada, Haruki Tokumoto, Taketo Nishimoto, Katsunori Kitano, Masao Tachibana, Chieko Koike, “A mechanism for pathological oscillations in mouse retinal ganglion cells in a model of night blindness”, Journal of General Physiology, 2025.

Peer-Reviewed Conference Publications

Keigo Tada, Hiroki Naganuma, “How Image Corruption and Perturbation Affect Out-Of-Distribution Generalization and Calibration” , International Joint Conference on Neural Networks (IJCNN2023)(Gold Coast, Australia)(2023/06).

International Workshop and Symposium Publications

Sho Horie, Konan Sakuta, Keigo Tada, Haruki Tokumoto, Taketo Nishimoto, Katsunori Kitano, Masao Tachibana, Chieko Koike,"A common mechanism for pathological retinal ganglion cell oscillations in the Trpm1 KO and rd1 mouse retinas", The Association for Research in Vision and Ophthalmology(ARVO2025)(Salt Lake City, USA)(2025/05).

Sho Horie, Konan Sakuta, Keigo Tada, Katsunori Kitano, Masao Tachibana, Chieko Koike,"Mechanism of the oscillation in retinal ganglion cells of Trpm1 KO mouse", SOCIETY for NEUROSCIENCE(Neuroscience2023)(Washington, D.C., USA)(2023/10).

Keigo Tada, Katsunori Kitano,"A computational model for normal and pathological activity of the retinal circuit", The Association for Research in Vision and Ophthalmology(ARVO2023)(New Orleans, USA)(2023/04).

Domestic Journal and Conference

Keigo Tada, Katsunori Kitano,"A Computational Model for Spontaneous Oscillation in Retinitis Pigmentosa",The 46th Annual Meeting of the Japan Neuroscience Society(Neuroscience2023)(Sendai, Japan)(2023/08).

Kotaro Yoshida, Keigo Tada†, Hiroki Naganuma†,"Uncertainty Calibration in Deep Neural Networks through Invariant Risk Minimization",Forum for Information and Technology 2023(FIT2023)(Osaka, Japan)(2023/09).

Keigo Tada, Hiroki Naganuma,"Measuring the Effect of Image Corruption and Perturbation through the Lens of Calibration and OOD Generalization",The 85th National Convention of Information Processing Society of Japan(IPSJ2023)(Tokyo, Japan)(2023/03).

Keigo Tada†, Hiroki Naganuma†,"Effect of Distribution Shift on Out-of-Distribution Generalization and Uncertainty ",Forum for Information and Technology 2022(FIT2022)(Yokohama, Japan)(2022/09).

† denotes equal contribution

Honors & Awards

International Information Science Foundation, Academic Conference Scholarship Overseas(2023/07)
Academic Excellence Scholarship for 2nd Year Students(2023/05)
Student Encouragement Award, The 85th National Convention of IPSJ(2023/03)
Academic Excellence Scholarship for 1st Year of Enrollment(2022/04)