Eri KURODA

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Education & Research Training

Oct. 2023 – Mar. 2024
Guest Researcher
Ubiquitous Media Technology Lab, Saarland University
Saarbücken, Germany (6 months)

Oct. 2022 – Dec. 2022
Internship Student
German Research Center for Artificial Intelligence (DFKI)
Saarbücken, Germany (3 months)

Apr. 2022 – Present
JSPS Research Fellow (DC1)
Japan Society for the Promotion of Science, Tokyo, Japan

Ph.D. student (Information Science)
Ochanomizu University, Tokyo, Japan
Supervisor: *Prof. Ichiro Kobayashi*

Apr. 2020 – Mar. 2022
M.Sc.
Ochanomizu University, Tokyo, Japan
Major GPA: 4.0/4.0
Supervisor: *Prof. Ichiro Kobayashi*

Apr. 2016 – Mar. 2020
B.Sc.
Ochanomizu University, Tokyo, Japan
Major GPA: 3.35/4.0
Supervisor: *Prof. Ichiro Kobayashi*

Talks & Publications

International Conferences

1. **Kuroda**, **E.**, & Kobayashi, I. (2023a, August). Extraction of motion change points based on the physical characteristics of objects. In *2023 ieee the 4th international conference on pattern recognition and machine learning (prml2023)*. Retrieved from http://www.prml.org/index.html
2. **Kuroda**, **E.**, & Kobayashi, I. (2023d). Predictive inference model ofătheăphysical environment thatăemulates predictive coding. In A. Bifet, A. C. Lorena, R. P. Ribeiro, J. Gama, & P. H. Abreu (Eds.), *Discovery science* (pp. 431–445). 26th International Conference on Discovery Science (DS2023). Cham: Springer Nature Switzerland.
3. **Kuroda**, **E.**, Nishimoto, S., Nishida, S., & Kobayashi, I. (2021a, December). A deep generative model imitating predictive coding in the human brain. In *The 22nd international symposium on advances intelligent systems*. Retrieved from https://drive.google.com/file/d/1nvVErC8GW5jc2GujTwz2hpLebxpZZESN/view?usp=sharing

Domestic Conferences

1. **Kuroda**, **E.**, & Kobayashi, I. (2023b, June). Predictive inference model of the physical environment that mimics predictive coding. The 37th Annual Conference of the Japanese Society for Artificial Intelligence. Retrieved from https://www.ai-gakkai.or.jp/jsai2023/en
2. **Kuroda**, **E.**, & Kobayashi, I. (2023c, March). A study on the construction of an inflection point prediction model imitating predictive coding in the human brain under physical environments. The 85th National Convention of IPSJ. Retrieved from https://www.ipsj.or.jp/event/taikai/85/
3. **Kuroda**, **E.**, & Kobayashi, I. (2022a, June). A study on extraction of motion inflection points focusing on objects in an image. The 36th Annual Conference of the Japanese Society for Artificial Intelligence. doi:10.11517/pjsai.JSAI2022.0_2M1OS19a02
4. **Kuroda**, **E.**, & Kobayashi, I. (2022b, March). A study on extracting the inflection point in the physical environment. The 84th National Convention of IPSJ. Retrieved from https://www.ipsj.or.jp/event/taikai/84/
5. **Kuroda**, **E.**, Nishimoto, S., Nishida, S., & Kobayashi, I. (2021b, March). A study on a deep generative model imitating predictive coding. The 83rd National Convention of IPSJ. Retrieved from http://id.nii.ac.jp/1001/00205169/
6. **Kuroda**, **E.**, Nishimoto, S., Nishida, S., & Kobayashi, I. (2020, November). A deep generative model imitating predictive coding. The 23rd Information-Based Induction Sciences Workshop. Retrieved from https://ibisml.org/ibis2020/
7. **Kuroda**, **E.**, & Kobayashi, I. (2020a, June). A study on building a deep generative model for prediction in the human brain. The 34th Annual Conference of the Japanese Society for Artificial Intelligence. doi:10.11517/pjsai.JSAI2020.0_1O3GS801
8. **Kuroda**, **E.**, & Kobayashi, I. (2020b, March). A study on predicting the real world using deep generative models. The 82nd National Convention of IPSJ. Retrieved from http://id.nii.ac.jp/1001/00214918/
9. **Kuroda**, **E.**, & Kobayashi, I. (2020c, February). A study on building a deep generative model for prediction in the human brain. Grant-in-Aid for Scientific Research on Innovative Areas "Chronogenesis: How the Mind Generates Time". Retrieved from https://www.chronogenesis.org/

MISC

1. **Kuroda**, **E.** (2023a, May). Students forum (117) interview with associate prof. yuki igarashi "real opinions and communications". doi:10.11517/jjsai.38.3_429
2. **Kuroda**, **E.** (2023b, February). Project on student editorial committee: Report on the 40th annual conference of the robotics society of japan (probabilistic robotics and data engineering robotics ~recognition, behavioral learning, and symbolic emergence ~(4/4)). doi:10.7210/jrsj.41.149
3. **Kuroda**, **E.** (2023c, January). Project on student editorial committee: Report on the 40th annual conference of the robotics society of japan (probabilistic robotics and data engineering robotics ~recognition, behavioral learning, and symbolic emergence ~(1/4)). doi:10.7210/jrsj.41.44
4. **Kuroda**, **E.** (2023d, January). Project on student editorial committee: Report on the 40th annual conference of the robotics society of japan (probabilistic robotics and data engineering robotics ~recognition, behavioral learning, and symbolic emergence ~(3/4)). doi:10.7210/jrsj.41.46
5. **Kuroda**, **E.**, Ohkuma, T., Takano, M., Morita, C., Sakurai, Y., & Kiyota, Y. (2022, September). The world students see through research. doi:10.11517/jjsai.37.5_640
6. **Kuroda**, **E.**, Kashiwakura, S., & Matsui, A. (2022, July). Student forum (112) interview with prof. akiko aizawa "limb your own mountain, even if its small at first". doi:10.11517/jjsai.37.4_533

7. **Kuroda, E.**, Sakurai, Y., Takano, M., Sakuma, H., & Kiyota, Y. (2022, May). Ai system papers -challenges and possibilities for collaboration among different communities-. doi:10.11517/jjsai.37.3_323

8. **Kuroda, E.**, Yamakawa, H., Toriumi, F., Sakuma, H., & Kiyota, Y. (2022, May). Concept papers -to facilitate dissemination of high-impact papers-. doi:10.11517/jjsai.37.3_329

9. Onishi, M., **Kuroda, E.**, & Sakuma, H. (2022, March). Student forum (110) interview with prof. emi tamaki the future of body sharing technology based on deep sensation. doi:10.11517/jjsai.37.2_237

Invited Talks

May. 2023 — **Plenary Talk**
National Institute of Advanced Industrial Science and Technology, Artificial Intelligence Research Center (AIRC).

Jan. 2023 — **Education Program for Female Leaders: Training Course**
Ochanomizu University.

Nov. 2022 — **Research Introduction**
DFKI Cognitive Assistants Dr.-Ing. Jan Alexandersson team.

Oct. 2022 — **Online seminars for female students**
RIKEN Center for Advanced Intelligence Project (AIP)

Research Introduction
DFKI Cognitive Assistants Dr.-Ing. Boris Brandherm team.

Grants

Oct. 2023 – Mar. 2024 — **Overseas Challenge Program for Young Researchers (JPY1,400,000)**
Japan Society for the Promotion of Science.
"Predictive sentences based on knowledge and experience of physical laws" (202380089)
Host researcher: Prof. Dr. Antonio Krüger
Host institute: Ubiquitous Media Technology Lab, Saarland University

Apr. 2022 – Mar. 2025 — **Grant-in-Aid for JSPS Research Fellows (DC1) (JPY 2,500,000)**
Japan Society for the Promotion of Science.
"Real-world language explanations based on human predictive functions that capture the physical environment" (JP22J21786)
Supervisor: Prof. Dr. Ichiro Kobayashi, Ochanomizu University

Mar. 2021 — **Research Grant (JPY 500,000)**
Leave a Nest Co. and Appliances Company, Panasonic Co.

Apr. 2020 – Mar. 2022 — **Scholarship (JPY 500,000)**
Ochanomizu University and Inc. KSP-SP

JASSO Scholarship for Category 1 (JPY 2,112,000)
Japan Student Services Organization

Nov. 2019 — **Research Grant (JPY 200,000)**
Ochanomizu University AI-Data Science Center

Awards

Apr. 2022 — **Repayment Exemption of JASSO Scholarship (Category 1)**
Japan Student Services Organization

Mar. 2022 — **Student Encouragement Award of IPSJ National Convention**
The 84th National Convention of IPSJ

Feb. 2022 — **Best Session Award**
The 22nd International Symposium on Advanced Intelligent Systems

Dec. 2020 — **FY2020 Student Award**
Ochanomizu University

Mar. 2020 — **Best Paper Award of IPSJ National Convention**
The 82nd National Convention of IPSJ

Student Encouragement Award of IPSJ National Convention
The 82nd National Convention of IPSJ

Experiences

Nov. 2022 – Present — **Industry Collaboration Committee Member**
Japan Society for the Promotion of Science

Nov. 2022 – Dec. 2022 — **Teaching Assistant for Japanese Language Education**
Saarland University

Oct. 2022 – Dec. 2022 — **Internship Student**
German Research Center for Artificial Intelligence (DFKI)

Apr. 2022 – Present — **JSPS Research Fellow (DC1)**
Japan Society for the Promotion of Science

Jun. 2021 – Present — **Student Editor**
The Japanese Society for Artificial Intelligence

Apr. 2021 – Mar. 2022 — **FY2021 IPSJ Journal Monitor**
The Information Processing Society of Japan

Apr. 2021 – Aug. 2021 — **Teaching Assistant (Introduction to Data Analysis)**
Ochanomizu University

Teaching Assistant (Exercises in Information Processing)
Ochanomizu University

Oct. 2020 – Mar. 2021 — **Teaching Assistant (Information Lecture2)**
Ochanomizu University

Experiences (continued)

Apr. 2020 – Mar. 2022 **Teaching Assistant (University Library)**
Ochanomizu University

Aug. 2017 – Sep. 2017 **Short-term Study Abroad**
The University of Manchester

Feb. 2017 – Mar. 2020 **Private Teacher**
Ochanomizu University

Feb. 2017 – Mar. 2018 **Programming Instructor**
Pro-Tech Club

Skills

Languages Japanese (Native), English (TOEIC810)
Programming Python, C, R, Java, HTML/CSS
Other Skills Microsoft Office Specialist (certified as Expert)