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/

Others

1. **Kuroda**, **E.** (2024). Pecial issue: "new trends of researches for doctoral theses". doi:10.11517/jjsai.39.1_46
2. **Kuroda**, **E.** (2023a, May). Students forum (117) interview with associate prof. yuki igarashi "real opinions and communications". doi:10.11517/jjsai.38.3_429
3. **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
4. **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
5. **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
6. **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

7. **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
8. **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
9. **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
10. 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

Oct. 2023 — **Research Introduction**
Saarland University, Prof.Dr. Vera Demberg team.

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

Apr. 2024 – Mar. 2025 — **Research Grant (C) (JPY 500,000)**
Tateisi Science and Technology Foundation
"Counter-intuitive Motion Prediction and Language Generation in the Real World"

Nov. 2023 — **Yasui-Kuroda Scholarship (JPY 30,000)**
Ochanomizu University

Oct. 2023 – Mar. 2024 — **Overseas Challenge Program for Young Researchers (JPY 1,400,000)**
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

Grants (continued)

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

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

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

Experiences (continued)

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
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)