












# 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 of the physical environment that emulates 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/1nvVErC8GW5jc2GujTwz2hplLebXPZZESN/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\\_2M10S19a02](https://doi.org/10.11517/pjsai.JSAI2022.0_2M10S19a02)
- 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\\_103GS801](https://doi.org/10.11517/pjsai.JSAI2020.0_103GS801)
- 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.** (2024). Pecial issue: "new trends of researches for doctoral theses". [doi:10.11517/jjsai.39.1\\_46](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.11517/jjsai.37.2_237)

## Invited Talks

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- 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

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

## Grants (continued)

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- 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

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- 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

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

## Experiences (continued)

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- 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

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