

Yuichiro Iwashita, M.Sc.

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Yuichiro Iwashita was born in Hiroshima, Japan, in 2000. He received the B.E. degree in computer science from Osaka Prefecture University, Japan, in 2023, and the M.I. degree in core informatics from Osaka Metropolitan University, Japan, in 2025. He is currently pursuing the Ph.D. degree in computer science at RPTU University Kaiserslautern-Landau, Germany, and is also a Research Assistant with the German Research Center for Artificial Intelligence (DFKI GmbH), Germany. His current research interests include AI-driven single-cell data analysis and multimodal AI in medicine.



Keywords

Single-Cell, Multimodal, AI for Life Science, Deep Generative Modeling, and Pattern Recognition

EDUCATION

Department of Computer Science, RPTU University Kaiserslautern-Landau Kaiserslautern, Germany
PhD Student 05.2025 - Present

Topic: “Artificial Intelligence Driven Framework for Integrative and Interpretable Single-Cell and Multi-omics Data Analyses”

Supervisor: Prof. Dr. Prof. h.c. Andreas Dengel and Dr. Muhammad Nabeel Asim

Graduate School of Informatics, Osaka Metropolitan University Sakai, Osaka, Japan
Master of Informatics 04.2023 - 03.2025

Thesis Title: “Study on a Multimodal Dynamic Prediction Framework for Intensive Care Units”

Supervisor: Prof. Dr. Koichi Kise

Reviewers: Prof. Dr. Naoki Mori, Prof. Dr. Koichi Kise, Assoc.-Prof. Dr. Katsufumi Inoue

College of Engineering, Osaka Prefecture University Sakai, Osaka, Japan
Bachelor of Engineering 04.2021 - 03.2023

Thesis Title: “Adaptive Multimedia Flashcard Learning System for Long-Term English Vocabulary Learning”

Supervisor: Prof. Dr. Motoi Iwata

WORK EXPERIENCE

German Research Center for Artificial Intelligence (DFKI GmbH) Kaiserslautern, Germany
Research Assistant 06.2025 - Present

Affectify Inc. Sakai, Osaka, Japan
Lead Software Engineer 02.2024 - 03.2025

German Research Center for Artificial Intelligence (DFKI GmbH) Kaiserslautern, Germany
Visiting Student 03.2023, 09.2023 - 09.2024, 03.2025

Intelligent Media Processing Research Group, Osaka Metropolitan University Sakai-shi, Osaka, Japan
Server Administrator 09.2021 - 03.2025

Rakuten Group, Inc. Setagaya-ku, Tokyo, Japan
Engineering Internship 09.2023 - 09.2023

freee K.K Shinagawa-ku, Tokyo, Japan
Engineering Internship 08.2023 - 09.2023

SCHOLARSHIPS

RPTU University Kaiserslautern-Landau CS Department Stipend 04.2025 - Present

JASSO Student Exchange Support Program, 960K JPY 09.2023 - 09.2024

Osaka Metropolitan University Study Abroad Support Program, 290K JPY 09.2023 - 09.2024

PARTICIPATING FUNDED PROJECTS

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|---|-------------------|
| MARK: Molecular Analysis of Age-Related Risk Mechanisms through Artificial Intelligence Funded by Rhineland-Palatinate Ministry of Science and Health | 12.2025 - Present |
| Cluster for atherothrombosis and individualized medicine (curATime) Funded by BMBF Clusters 4 Future Program | 04.2025 - Present |
| Formation of a Japan-Germany Multilayered R&D Network for Medical x AI and its Application to Industry Creation Funded by JST ASPIRE Program | 12.2024 - Present |
| Formation of a Multilayered R&D Center for Medical x AI Funded by Osaka Metropolitan University | 06.2022 - 03.2025 |
| LeCycl: Learning Cyclotron Funded by JST AIP Network Lab Trilateral AI Research Program | 09.2021 - 03.2024 |

REVIEWING EXPERIENCE

ICML 2026 SD4H Workshop (3), NeurIPS 2025 TS4H Workshop (2), CHI 2025 Late Breaking Work (1), CUI 2025 Short Papers & Works-in-Progress (1)

SUPERVISION

1 Master Thesis (1 OMU)
2 Bachelor Theses (2 OMU)
7 Project/Seminar Students (2 RPTU / 5 OMU)

PUBLICATION LIST

Journal Papers

- David Selby*, **Yuichiro Iwashita***, Kai Spriestersbach*, Mohammad Saad, Dennis Bappert, Archana Warriar, Sumantrak Mukherjee, Koichi Kise, Sebastian Vollmer. Had enough of experts? Quantitative knowledge retrieval from large language models. Stats, 2025. (* equal contributions)

International Conference Papers

- David Selby*, Kai Spriestersbach*, **Yuichiro Iwashita***, Dennis Bappert, Archana Warriar, Sumantrak Mukherjee, Sergey Redyuk, Muhammad Nabeel Asim, Koichi Kise, Sebastian Vollmer. Had enough of experts? Elicitation and evaluation of Bayesian priors from large language models. In NeurIPS 2024 Workshop on Bayesian Decision-making and Uncertainty, 2024. (* equal contributions)
- Yuichiro Iwashita**, Ryuki Kurashige, Andrew Vargo, Benjamin Tag, Tilman Dingler, Motoi Iwata, Koichi Kise. Peer-Awareness to Support Learning: An In-the-wild Study on Notification Timing. In Companion of the 2024 ACM International Joint Conference on Pervasive and Ubiquitous Computing Pervasive and Ubiquitous Computing (UbiComp Companion '24), ACM, 2024.
- Yuichiro Iwashita**, Andrew Vargo, Motoi Iwata, Koichi Kise. Personalizing Augmented Flashcards Towards Long-Term Vocabulary Learning. In Proceedings of the Augmented Humans International Conference (AHs 2024), ACM, 2024.

Miscellaneous

- Kaito Shiku, Ahtisham Fazeel Abbasi, Ryoma Bise, **Yuichiro Iwashita**, Kazuya Nishimura, Andreas Dengel, Muhammad Nabeel Asim. GC-MoE: Genomics-Guided Cell-Type-Specific Mixture of Experts for Histology-Based Single-Cell Spatial Transcriptomics. arXiv preprint arXiv:2606.02424 [cs.CV], 2026.
- Yuichiro Iwashita***, Ahtisham Fazeel Abbasi*, Koichi Kise, Andreas Dengel, Muhammad Nabeel Asim. A Large-Scale Comparative Analysis of Imputation Methods for Single-Cell RNA Sequencing Data. arXiv preprint arXiv:2603.24626 [q-bio.GN], 2026. (* equal contributions)
- Shaonan Liu, **Yuichiro Iwashita**, Soichiro Nakako, Masakazu Iwamura, Koichi Kise. CDMT-EHR: A Continuous-Time Diffusion Framework for Generating Mixed-Type Time-Series Electronic Health Records. arXiv preprint arXiv:2603.23719 [cs.LG], 2026.