

Haruki YONEKURA

PH.D CANDIDATE • THE UNIVERSITY OF OSAKA, MOBILE COMPUTING LAB

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Summary

Haruki Yonekura is a Ph.D. candidate in the Mobile Computing Laboratory at The University of Osaka and an AI BOOST Fellow. His research centers on building and evaluating ML/LLM systems in real-world settings, and he is motivated to pivot this skill set toward reducing catastrophic risks from advanced AI. He is particularly strong at operationalizing ambiguous research questions into measurable hypotheses and fast empirical iterations. He is comfortable operating under uncertainty and practices intellectual humility—treating hypotheses as provisional and revising them quickly as new evidence emerges. His publications and projects span LLM agents for smart environments, wireless sensing, geoinformation and privacy, and high-performance computing—experience that translates well to safety work in areas such as robustness/control, scalable oversight, and evaluations. Beyond leading projects as a primary author, he is a reliable collaborator who accelerates teams through clear communication and execution.

Education

Graduate School of Information Science and Technology, The University of Osaka

Osaka, Japan

PH.D. CANDIDATE, MOBILE COMPUTING LABORATORY 📄 [HTTPS://MC.NET.IST.OSAKA-U.AC.JP/EN/](https://mc.net.ist.osaka-u.ac.jp/en/)

Apr. 2024 – Mar. 2027

- **AI BOOST Scholarship** funded by JST (Japan Science and Technology Agency).
- **Visiting Doctoral Researcher** Otto-Friedrich-Universität Bamberg, Chair of Mobile Systems, hosted by Prof. Dr. Daniela Nicklas. (July 2026 – Sep 2026)

Graduate School of Information Science and Technology, Osaka University

Osaka, Japan

M.SC. IN INFORMATION AND COMPUTER SCIENCE

Apr. 2022 – Mar. 2024

- Thesis title: *Human Daily Activity Patterns Generation with LLM for Smart Home Simulator.*

School of Engineering Science, Osaka University

Osaka, Japan

ASSOCIATE DEGREE IN INFORMATION AND COMPUTER SCIENCE

Apr. 2019 – Mar. 2022

- *Skipped senior year for early graduation.*

Selected Publications

Please also refer to [my Google Scholar](#) and [my Portfolio](#).

JOURNAL PAPER(S)

1. R. Ozeki, [H. Yonekura](#), A. Baimbetova, H. Rizk, and H. Yamaguchi. "CROSS-Net: Region-Agnostic Taxi-Demand Prediction Using Feature Disentanglement." *IEEE Transactions on Intelligent Transportation Systems*(Q1 Journal) (2026), Q1 Journal.
2. [H. Yonekura](#), H. Rizk, and H. Yamaguchi. "Round trip time meets transformers: high-fidelity human counting in cluttered environments." *Neural Computing and Applications* (2025), Q1 Journal.

INTERNATIONAL CONFERENCE PROCEEDINGS

1. [H. Yonekura](#), R. Ozeki, T. Amano, H. Rizk, and H. Yamaguchi, "MobText-SISA: Efficient Machine Unlearning for Mobility Logs with Spatio-Temporal and Natural-Language Data," in *Proceedings of the 33rd ACM International Conference on Advances in Geographic Information Systems(ACM SIGSPATIAL)*, 2025, *CORE RANK A*.
2. [H. Yonekura](#), F. Tanaka, T. Mizumoto, and H. Yamaguchi, "Generating human daily activities with llm for smart home simulator agents," In *2024 International Conference on Intelligent Environments (IE)*, *CORE RANK B*, (pp. 93-96), *Best Short Paper Award*. IEEE.
3. R. Ozeki, [H. Yonekura](#), H. Rizk, and H. Yamaguchi, "Decentralized landslide disaster prediction for imbalanced and distributed data," in *2024 IEEE International Conference on Pervasive Computing and Communications (PerCom)*, *CORE RANK A**, IEEE, 2024, pp. 143-150.

Selected Honors & Awards

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| 2025 | Participation , International HPC Summer School (IHPCSS 2025) | <i>IHPCSS 2025</i> |
| 2024 | Best Short Paper Award , "Generating human daily activities with LLM for smart home simulator agents" | <i>IE 2024</i> |
| 2023 | Best Poster Award , "One Model Fits All: Cross-Region Taxi-Demand Forecasting" | <i>SIGSPATIAL 2023</i> |

Professional Services

- Publicity and Social Media Co-Chairs, IEEE SMARTCOMP 2026 (the 12th edition of the premier conference on smart computing)
- Referee(Reviewer), IEEE Intelligent Vehicles Symposium (IV 2026)
- Student Volunteer, ACM SIGKDD(Knowledge Discovery and Data Mining) 2025
- TPC Member, ACM SIGSPATIAL(International Conference on Advances in Geographic Information Systems) 2025 Applications Track
- TPC Member, ICMU(The 15th International Conference on Mobile Computing and Ubiquitous Networking 2025)