

Hikaru Asano

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Education

The University of Tokyo, B.E in Systems Innovation, Faculty of Engineering 2019.4 - 2022.3

- Supervisor: Takashi Goda
- Coursework: Artificial Intelligence, Monte Carlo method

The University of Tokyo, M.S in Graduate School of Interdisciplinary Information Studies 2022.4 - 2024.3

- Supervisor: Osamu Sakura
- Coursework: Science and technology studies

The University of Tokyo, D.Sc in Graduate School of Arts and Sciences 2024.4 - present

- Supervisor: Yukino Baba
- Coursework: Artificial Intelligence

Job Experience

Research Intern, OMRON SINIC X Corporation 2020.8 - 2020.9

- Mentor: Mai Nishimura
- Topics: Multi-Agent Reinforcement Learning, Social Dilemma

Research Intern, OMRON SINIC X Corporation 2022.3 - 2023.8

- Mentor: Ryo Yonetani, Tadashi Kozuno
- Topics: Multi-Agent Navigation, Fairness, Multi-Objective Optimization

Part-time Researcher, CyberAgent AI Lab 2023.10 - present

- Mentor: Ryo Yonetani
- Topics: Human Behavior Understanding, Semantic Trajectory, Application of LLM

Publications

International Conference

- **Hikaru Asano**, Ryo Yonetani, Taiki Sekii, Hiroki Ouchi, “Text2Traj2Text: Learning-by-Synthesis Framework for Contextual Captioning of Human Movement Trajectories,” *International Natural Language Generation Conference (INLG)*, 2024, (long paper)
- Eiko Matsuda, **Hikaru Asano**, Tomoyuki Yuzawa, Osamu Sakura, “Quantitative and Qualitative Analyses on Child’s Animate Tendency,” *Cognitive feelings: Towards multi-disciplinary approaches for realizing artificial systems with cognitive capacities (ALIFE workshop)*, 2023
- **Hikaru Asano**, Osamu Sakura, “Rashomon Bound Regression: a Reproducible and Explorable Method for Regression-Based Analysis,” *International Conference on Computational Social Science (IC2S2)*, 2023, (poster)
- **Hikaru Asano**, Ryo Yonetani, Mai Nishimura, Tadashi Kozuno, “Counterfactual Fairness Filter for Fair-Delay Multi-Robot Navigation,” *International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, 2023, (oral, acceptance rate 23.3 %)

Preprint

- **Hikaru Asano**, “Sequential Bayesian experimental designs via reinforcement learning,” arXiv preprint, 2022

Awards and Honors

Scholarship and Grant

- Research RA in Value Exchange Engineering by RIISE@UTokyo, ¥ 2.0M, 2023–2024.
- The foundation Matsuo Scholarship Society (Scholarship and commuting expenses grant, free accommodation in student dormitories, provision of meals (free), health insurance expenses grant), total amount granted: approximately ¥ 5M, 2019–2023.

Academic Award

- Hatakeyama Prize, Tomakomai National Institute of Technology, 2019