Ku Onoda

M.S. Student · The University of Tokyo · Matsuo-Iwasawa Laboratory
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Research Interests

Reinforcement learning, generative modeling, agentic systems, and differentiable simulation.

Education

The University of Tokyo Apr 2025 - Mar 2027 expected
M.S., Technology Management for Innovation, Graduate School of Engineering

The University of Tokyo Apr 2022 - Mar 2025
B.Eng., Systems Innovation, Faculty of Engineering (transfer admission)

Work Experience

Third Intelligence Feb 2026 - Present
Research Intern

Peer Reviewed Publications

Multi-Axis Max@K Reinforcement Learning for Representative Diversity in Text-to-Image Generation
Ku Onoda, Paavo Parmas, Hiroki Furuta, Soichiro Nishimori, Yuta Oshima, Shohei Taniguchi, and Yutaka Matsuo.
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2027. Accepted. | Paper

Does "Do Differentiable Simulators Give Better Policy Gradients?" Give Better Policy Gradients?
Ku Onoda, Paavo Parmas, Manato Yaguchi, and Yutaka Matsuo.
International Conference on Learning Representations (ICLR), 2026. | Paper

Vehicle Traffic Signal Control System Using Decentralized Reinforcement Learning
Motoshi Hara, **Ku Onoda**, Kou Okada, Toru Watanabe, Satoru Kato, and Hiroyuki Kamaya.
56th ISCIE International Symposium on Stochastic Systems Theory and Its Applications (SSS 2024).
Proceedings published 2025, pp. 63-69. | DOI:10.5687/sss.2025.63

Preprint

AutoRef: Harness Optimization for Agentic Multi-Reference Image Generation
Yuta Oshima*, **Ku Onoda***, Yusuke Iwasawa, Masahiro Suzuki, Yutaka Matsuo, and Hiroki Furuta.
arXiv preprint, 2026. arXiv:2609.35530 | Code
* Equal contribution.

Awards and Scholarships

Student Incentive Award, May 2025.
39th Annual Conference of the Japanese Society for Artificial Intelligence (JSAI).
General Session, Oral Presentation Division.

JGC-S Scholarship Foundation, grant scholarship, Apr 2025 - Mar 2026.