Toshinori Kitamura

Education	
The University of Tokyo DEPARTMENT OF TECHNOLOGY MANAGEMENT FOR INNOVATION, D1, GPA: N/A • Nara Institute of Science and Technology (NAIST), GPA: 3.3/4.0 — Graduate School of Science and Technology • Keio University, GPA: 3.3/4.0 — Faculty of Science and Technology (System Design Engineering) • University of California Davis, GPA: 3.9/4.0 — Dean's List, Exchange Student 2018-2019	2023
Experience and Publications	
The University of Tokyo Matsuo Lab Reinforcement Learning (RL) Research • "Regularization and Variance-Weighted Regression Achieves Minimax Optimality in Linear MDPs: Theory and Practice" • Toshinori Kitamura, Tadashi Kozuno, Yunhao Tang, et al., ICML 2023 • "KL-Entropy-Regularized RL with a Generative Model is Minimax Optimal" • Tadashi Kozuno, Wenhao Yang, Nino Vieillard, Toshinori Kitamura, et al., Arxiv 2022	2022-
Integral AI, Inc.	2022
NAIST Robot Learning Laboratory RL RESEARCH • "Geometric Value Iteration: Dynamic Error-Aware KL Regularization for Reinforcement Learning" — Toshinori Kitamura, Lingwei Zhu, Takamitsu Matsubara, submitted to ACML 2021, under-review • "Cautious Actor-Critic: Stable off-policy deep reinforcement learning for continuous control" — Lingwei Zhu, Toshinori Kitamura, Takamitsu Matsubara, ACML 2021	2020-2021
OMRON SINIC X Corporation RL RESEARCH INTERN • "ShinRL: A Library for Evaluating RL Algorithms from Theoretical and Practical Perspectives" – Toshinori Kitamura, Ryo Yonetani, NeurlPS RL Workshop 2022	2021
National Institute of Advanced Industrial Science and Technology (AIST) RESEARCH INTERN Researched deep RL with model predictive control for mobile robot in human crowds.	2019-2020
Laboratory of Chen-Nee Chuah (UC Davis)	2019
RESEARCH Researched traffic congestion reduction using multi-agent RL and imitation learning.	
Mira Robotics, Inc. Software & Hardware Engineer Intern Helped develop robots, LIDAR and Object Detection Algorithm. Developed fusion360 add-in for ROS.	2018
Projects	
ShinRL: https://github.com/omron-sinicx/ShinRL • ShinRL: A Library for Evaluating RL Algorithms from Theoretical and Practical Perspectives.	2021-2022
 PyTorch-RL-IL: https://github.com/syuntoku14/pytorch-rl-il A PyTorch Library for Building Reinforcement Learning and Imitation Learning Agents. 	2020
fusion2urdf: https://github.com/syuntoku14/fusion2urdf • A fusion360 add-in which converts fusion360 model to urdf(Universal Robotic Description Format) file.	2018
Marlo Competition (UC Davis) RL competition to solve Minecraft. Researched deep reinforcement learning techniques.	2018
NHK robot competition (Keio university)	2018

• Developed Kinect-V2 software that can recognize and react to objects.