Toshinori Kitamura

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Education	
Nara Institute of Science and Technology (NAIST)	2021
• 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	
Experience	
NAIST Robot Learning Laboratory	2021
REINFORCEMENT LEARNING (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 Policy Programming: Exploiting KL Regularization in Monotonic Policy Improvement for Reinforcement Learning"	
 Lingwei Zhu, Toshinori Kitamura, Takamitsu Matsubara, submitted to Journal of Neural Networks, under-review "Cautious Actor-Critic: Stable off-policy deep reinforcement learning for continuous control" 	
- Toshinori Kitamura, Lingwei Zhu, Takamitsu Matsubara, JSAI 2021	
OMRON SINIC X Corporation	2021
RL RESEARCH INTERN	
Researching offline RL for robot automation.	
Deep RL Summer School: https://deeplearning.jp/reinforcement_cource-2020s	2021
• Tutored students in deep RL, model-based RL, and entropy-regularized RL.	
National Institute of Advanced Industrial Science and Technology (AIST)	2019-2020
• Research Intern • Researched deep RL with model predictive control for mobile robot in human crowds.	
	2010
Laboratory of Chen-Nee Chuah (UC Davis) RESEARCH	2019
Researched traffic congestion reduction using multi-agent RL and imitation learning.	
Mira Robotics, Inc.	2018
Software & Hardware Engineer Intern	2010
Helped develop robots, LIDAR and Object Detection Algorithm. Developed fusion360 add-in for ROS.	
Projects	
Chipple hater at //mithub com/annut chut 4/ChippI	2020 2021
ShinRL: https://github.com/syuntoku14/ShinRL • A python library for analyzing reinforcement learning.	2020-2021
PyTorch-RL-IL: https://github.com/syuntoku14/pytorch-rl-il	2020
A PyTorch Library for Building Reinforcement Learning and Imitation Learning Agents.	2020
fusion2urdf: https://github.com/syuntoku14/fusion2urdf	2018
• A fusion360 add-in which converts fusion360 model to urdf(Universal Robotic Description Format) file.	
Marlo Competition (UC Davis)	2018
• RL competition to solve Minecraft. Researched deep reinforcement learning techniques.	
 NHK robot competition (Keio university) Developed Kinect-V2 software that can recognize and react to objects. 	2018
- Developed Ninecevz solitivare that carriecognize and react to objects.	
Skills	

Languages Python, C++, MATLAB, Rust **Frameworks** PyTorch, Chainer, ROS, Docker, Google Cloud

Knowledge Control system, Reinforcement Learning (RL), Deep Learning