

Liangyawei Kuang

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Introduction	I am a postgraduate researcher at the Hong Kong University of Science and Technology (HKUST) . My research goal is to develop learning algorithms and techniques that could endow machines and systems with greater autonomy and intelligence to acquire the skills for executing complex tasks. I am interested in the intersection of reinforcement learning, decision-theoretic planning, and multi-agent systems. Currently, I focus on solving Multi-Agent Reinforcement Learning problems under scalability and reliability consideration & diving theoretical and algorithmic foundation of Reinforcement Learning.	
Research Experience	Off-policy Multi-Agent Reinforcement Learning Advisor: Prof. Fangzhen Lin	Apr. 2021 - present
	Heterogeneous Multi-Agent Systems Advisor: Prof. Fangzhen Lin	Dec. 2021 - present
Education	HKUST , Hong Kong, China Master of Philosophy in Individualized Interdisciplinary Program (Robotics and Autonomous Systems) Advisor: Prof. Fangzhen Lin	Aug. 2021 - present
	HKUST (Guangzhou) , Guangzhou, China Cross Campus Virtual Exchange (Remote)	Sept. 2022 - Dec. 2022
	Northeastern University , MA, U.S.A. Thesis-based Master of Computer Engineering in Computer Vision, Machine Learning and Algorithms (degree discontinued)	Jul. 2020 - Jun. 2021
	University of California, Irvine , CA, U.S.A. Final year visiting in Electrical Engineering & Computer Science Department	Aug. 2019 - Jun. 2020
	Hong Kong Polytechnic University , Hong Kong, China One-semester exchange in Mechanical Engineering Department	Jan. 2019 - Jun. 2019
	Harbin Institute of Technology , Harbin, China Bachelor of Engineering in Mechatronics Engineering	Aug. 2016 - Jun. 2020
Teaching	<i>HKUST</i> , Lecturer Multi-Robot Systems Course link: https://github.com/klyw1998/Multi-Robot-Systems	Spring 2022
	<i>Northeastern University</i> , Teaching Assistant EECS 7311: Two Dimensional Signal and Image Processing	Fall 2020
Skills	Programming Libraries	Python, C/C++, MATLAB, R, SQL, Java NumPy, Matplotlib, Scikit-Learn,

	OpenAI Gym, PyTorch, TensorFlow2	
Languages	Mandarin, Classical Chinese, English (IELTS: 7), Beginner on Latin	
Others	L ^A T _E X, Linux, ROS, Docker, Vim, Microsoft Office	
Invited Talks	<i>Cooperative Multi-Agent Reinforcement Learning</i> Seminar in Robotics and Autonomous Systems Thrust, System Hub, HKUST(Guangzhou)	2022
Projects	<i>On-Campus Food Delivery System via Multi-Agent Pathfinding</i> , HKUST Project page: https://github.com/klyw1998/Multi-Agent-Pathfinding	2021
	<i>Home Credit Default Risk competition at Kaggle</i> , HKUST Ranked top 14% (Bronze Medal level) based on Machine Learning techniques. This project is carried out by only two participants in less than one week's work! Project page: https://github.com/klyw1998/Statistical-Machine-Learning	2022
Honours	<i>Postgraduate Studentship</i> , HKUST	2021 - 2023
	<i>Meritorious Winner</i> (top 6% in 2019), Mathematical Contest in Modeling	2019
	<i>Outstanding Student Leader</i> , Harbin Institute of Technology	2017 & 2018
	<i>Second Class Scholarship</i> , Harbin Institute of Technology	2017 & 2018
	<i>SMC Scholarship</i> , Harbin Institute of Technology	2017