Liangyawei Kuang

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Research Interests

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 multi-agent systems, reinforcement learning, game theory, robotics, vision, and machine learning. Currently, I focus on solving multi-agent reinforcement learning problems under scalability and robustness consideration.

Education

HKUST, Hong Kong, China — Aug. 2021 - present
Master of Philosophy in Robotics and Autonomous Systems
Advisor: Prof. Fangzhen Lin and Prof. Ling Shi

Northeastern University, MA, U.S.A. — Jul. 2020 - Jun. 2021
Thesis-based Master of Computer Engineering in Computer Vision, Machine Learning and Algorithms (degree discontinued)

University of California, Irvine, CA, U.S.A. — Aug. 2019 - Jun. 2020
Final year visiting in Electrical Engineering & Computer Science Department

Hong Kong Polytechnic University, Hong Kong, China — Jan. 2019 - Jun. 2019
One-semester exchange in Mechanical Engineering Department

Harbin Institute of Technology, Harbin, China — Aug. 2016 - Jun. 2020
Bachelor of Engineering in Mechatronics Engineering

Teaching

HKUST, Lecturer — Spring 2022
Multi-Robot Systems (course link)

Northeastern University, Teaching Assistant — Fall 2020
EECS 7311 Two Dimensional Signal and Image Processing

Skills

Programming	Python, C/C++, MATLAB
Deep-learning software	PyTorch, Keras, TensorFlow
Languages	Mandarin, English
Others	LaTeX, Linux, ROS, Microsoft Office

Honours

Meritorious Winner, the Mathematical Contest in Modeling	2019
Second Class Scholarship, Harbin Institute of Technology	2017 & 2018
SMC Scholarship, Harbin Institute of Technology	2017