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, He focuses on solving Multi-Agent Reinforcement Learning problems under scalability and reliability consideration & diving theoretical and algorithmic foundation of Reinforcement Learning.

Education   **HKUST**, Hong Kong, China   Aug. 2021 - present
Master of Philosophy in Individualized Interdisciplinary Program (Robotics and Autonomous Systems)
Advisor: Prof. Fangzhen Lin

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, R, SQL, Java
Libraries   NumPy, Matplotlib, Scikit-Learn,
                                           OpenAI Gym, PyTorch, TensorFlow2
Languages   Mandarin, Classical Chinese, English, Latin
Others   LaTeX, Linux, ROS, Docker, Vim, Microsoft Office

Honours   *Postgraduate Studentship*, HKUST   2021 - 2023
Meritorious Winner, Mathematical Contest in Modeling   2019
Outstanding Student Leader, Harbin Institute of Technology   2017 & 2018
Second Class Scholarship, Harbin Institute of Technology   2017 & 2018
SMC Scholarship, Harbin Institute of Technology   2017