

Liangyawei Kuang (匡梁亚伟)

kriskongloveyou@gmail.com

EDUCATION *****2021.8-present

the Hong Kong University of Science and Technology (HKUST) Hong Kong, China

Master of Philosophy on Robotics and Autonomous System

*****2020.7-2021.6

Northeastern University (NEU) MA, U.S.A.

Thesis-based master of Computer Engineering on Computer Vision, Machine Learning and Algorithms (degree discontinued)

GPA: **4.00/4.0** (overload with 3 courses every semester, and the regular load is 2 courses)

*****2019.8-2020.6

University of California, Irvine (UC Irvine) CA, U.S.A.

Undergraduate final year visiting in Electrical Engineering and Computer Science

Three-degree curriculum: electronic circuit design, communication system, and signal processing

*****2019.1-2019.6

Hong Kong Polytechnic University (HK PolyU) Hong Kong, China

One-semester exchange in Mechanical Engineering

GPA: **3.83/4.5** (overload with 6 courses, and the regular load is 3 or 4 courses);

*****2016.8--2020.6

Harbin Institute of Technology (HIT) Harbin, China

Bachelor of Engineering in Mechatronics Engineering (ME)

GPA: **88.69/100**; Rank:**26/389** (1st year); **34/356** (2nd year)

POSITIONS 2020.9-2020.12 **Graduate-course Teaching Assistant** (EECS7311: Two Dimensional Signal and Image Processing at Fall 2020) NEU

Teaching 2nd year master students and 2nd /3rd year PhD students during my office hours every week and correcting their homework

COURSES

PROJECTS 2016.10-2017.4 **Multi-function** (moving and grasping) **Kitchen-Service Robot Design** (freshman design project), **leader** HIT;
2017.6-2017.8 **Intelligent Transport Robot Building** (DIY an easy target robot) **based on Explorer Suite**, **leader** HIT;
2018.3-2018.7 **Accurate Cable-Rack System based on 6-DOF Parallel Grid System** (sophomore design and building project), **leader** HIT;
2018.9-2019.1 **Inverted Pendulum based on Vision Control, feed-back part designing (PID) and building** (3-D printing), **member**, *Institute of Intelligent Control and System* HIT;
2019.1-2019.5 **Mountain Autopilot System based on 2-D lidar SLAM** (part of C/C++ coding for the control part, following a 1st year Ph.D.) HK PolyU;
2019.9-2020.6 **Mobile Car Navigation based on Raspberry Pi 3 Model B with Arducam and Arduino** (a beginner level project), **leader** UC Irvine;
2020.9-2020.11 **UC Berkeley CS188 Pac-Man Projects** (AI projects based on python) NEU;
2020.9-2020.12 **Mobile Robots Simulation Project based on ROS in Ubuntu** (turtlebot) NEU

SKILLS **Programming Languages:** Python, C/C++, MATLAB, Java, VHDL, SQL, Prolog, Linux
Software: Anaconda for Python, Visual Studio for C/C++, Matlab, JetBrains IntelliJ IDEA, Cadence, AutoCAD, Mathematica, SolidWorks, Keil, Multisim, LabVIEW

HONORS AND AWARDS	Champion, <i>Freshman Basketball League Match of HIT</i>, guard position Fall 2016; Excellent organizer for the <i>New Year's Eve</i> of HIT Winter 2016; First Place, Excellent Science and Technology Innovation Projects of HIT Summer 2017; Outstanding League Cadres of HIT at <i>May Fourth Youth Day</i> Summers of 2017 and 2018; Second Prize, “Xin Rui” Cup Mathematics Competition of HIT, rank #4 Summer 2017; Third Prize, “Xin Rui” Cup Robotic-Challenge Competition of HIT, leader Summer 2017; Outstanding Prize, Egg-Crash-Earth Structure Design Competition of HIT Summer 2017; Second Prize, SMC scholarship of HIT Fall 2017; Second Prize, “Ren Min” scholarship of HIT Fall 2017 and Fall 2018; Second Prize, National Collegiate Mathematics Competition Winter 2017; First Prize, Mechanical Principles Competition in ME School of HIT Spring 2018; Excellent Volunteer of ME School in HIT Fall 2018; Meritorious winner of MCM (<i>The Mathematical Contest in Modeling</i>) Spring 2019; Third Place, HIT Robotic Summer School Competition Summer 2019
ACTIVITIES AND EXPERIENCE	2016.10-2017.1 Director of the <i>2017 New Year's Eve</i> of the Mechatronics Engineering School and the Humanities School HIT; 2017.6-2019.6 Founder of the Academic-Special Dormitory HIT; 2017.7-2019.1 Founder and President of the <i>ILS</i> (Important learning Skills) Technical Community (helping hundreds of students about their study issues) HIT; 2017.9-2019.1 Chief Lecturer of the “<i>Lei Feng</i>” Academic Support Group HIT
EXTRA	Top ten progressive students in ME School of HIT (from 45% to top 10%), 2016 - 2017; Ranked as the only ME School exchange student to HK PolyU 2018 - 2019 Semester 2; Ranked as the only HIT final-year visiting student to UC Irvine 2019 - 2020; Got three MS admissions from the NEU ECE department and several MS admissions from other universities as USC, UCD, UF etc. 2019 - 2020 Quarter 2&3;