Liangyawei Kuang (匡梁亚伟)

kriskongloveyou@gmail.com

EDUCATION	******2021.8-present

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the Hong Kong University of Science and Technology (HKUST)   Hong Kong, China
Master of Philosophy on Robotics and Autonomous System
Co-advised by Prof. Fangzhen Lin and Prof. Ling Shi
******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 Machinery Dynamics (92/100), Mathematical Modeling (95/100), Linear Systems and Control (A+), System Dynamics (A+), Discrete Time Signal and Systems (A+), Integrated Electronic Circuit Design (A), Introduction of Machine Vision (A-), Communication Systems II (A), Organization of Digital Computers (A-)

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	**Champion**, *Freshman Basketball League Match of HIT*, guard position	Fall 2016;
AND	**Excellent organizer for the** *New Year's Eve* **of HIT**	Winter 2016;
AWARDS	**First Place**, **Excellent Science and Technology Innovation Projects of HIT**	Summer 2017;
	Outstanding League Cadres of HIT at *May Fourth Youth Day*	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 (*The Mathematical Contest in Modeling***)**	Spring 2019;
	Third Place, **HIT Robotic Summer School Competition**	Summer 2019

ACTIVITIES	2016.10-2017.1 **Director of the** *2017 New Year's Eve* **of the Mechatronics Engineering School**	
AND	**and the Humanities School**	HIT;
EXPERIENCE	2017.6-2019.6 **Founder of the Academic-Special Dormitory**	HIT;
	2017.7-2019.1 **Founder and President of the** *ILS* **(Important learning Skills) Technical**	
	Community (helping hundreds of students about their study issues)	HIT;
	2017.9-2019.1 **Chief Lecturer of the** *"Lei Feng"* **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;