

# Liangyawei Kuang (Kris Kong)

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- EDUCATION** \*\*\*\*\*2021.8-2023.6 *the Hong Kong University of Science and Technology* (HKUST), Hong Kong, China  
Master of Philosophy on Robotics and Autonomous System  
\*\*\*\*\*2020.7-2021.5 *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**;  
\*\*\*\*\*2019.8-2020.6 *University of California, Irvine* (UC Irvine), CA, U.S.A.  
Undergraduate final year visiting in Electrical Engineering and Computer Science  
GPA: **3.24/4.0** (overload for completing three degrees: 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  
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
- 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 hardware 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** (world-famous AI projects based on python), NEU  
2020.9-2020.12 **Mobile Robots Simulation Project based on ROS in Ubuntu** (world-famous turtlebot projects for the beginner on ROS), NEU
- SKILLS** **Programming Languages:** C/C++, MATLAB, Python, VHDL, Java, Linux  
**Software:** Anaconda for Python, Visual Studio for C/C++, Matlab, JetBrains IntelliJ IDEA, Cadence, AutoCAD, Mathematica, SolidWorks, Keil, Multisim

<b>HONORS AND AWARDS</b>	<p>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 Prize, Excellent Science and Technology Innovation Projects of HIT, rank #1, 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, National Collegiate Mathematics Competition, Winter 2017;          Second Prize, People scholarship of HIT, Fall 2017 and Fall 2018;          First Prize, Mechanical Principles Competition in Mechatronics Engineering(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</p>
<b>ACTIVITIES AND EXPERIENCE</b>	<p>2016.10-2017.1 Director of the <i>2017 New Year's Eve</i> of the Mechatronics Engineering School and the Humanities School (more than 600 students, teachers, and students’ parents participated in), HIT;          2017.6-2019.6 Founder of the Academic-Special Dormitory, HIT;          2017.7-2019.1 Founder and President of the <i>ILS (Important learning Skills) Technical Community</i> (a group of 30 talented students, helping more than 500 students about their study issues), HIT;          2017.9-2019.1 Chief Lecturer of the “<i>Lei Feng</i>” Academic Support Group, HIT</p>
<b>EXTRA</b>	<p>Top ten progressive students in ME School of HIT (from 45% to top 10%), Fall 2016-Summer 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, Fall 2019-Spring 2020;          Got three MS admissions from the NEU ECE department and several MS admissions from other universities as USC, UCD, etc.</p>