Cheng-hsin WUU

COMPUTER VISION · DEEP LEARNING

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Education

HKUST (Hong Kong University of Science and Technology) 📍*Hong Kong*
B.ENG. IN COMPUTER SCIENCE & B.B.A IN BUSINESS MANAGEMENT · *Sep. 2015 - May. 2020*
• Cumulative Grade Average (CGA): 3.8/4.3 (top 5 ％)
• Dean's List: Fall-2015, Spring-2018, Spring-2019
• Minors: Social Science & Big Data Technology

Swiss Federal Institute of Technology Zurich (ETH) 📍*Zurich. Switzerland*
EXCHANGE STUDENT COMPUTER SCIENCE DEPARTMENT (COMPUTER SCIENCE: QS NO.8, THE NO.1) · *Sep. 2017 - Feb. 2018*

Peking University 📍*Beijing, China*
EXCHANGE STUDENT GUANGHUA SCHOOL OF MANAGEMENT · *Sep. 2018 – Jan. 2019*

Research Experience

HKUST Computer Final Year Project — UG RESEARCHER (PROF. CHI-KEUNG TANG) 📍*Hong Kong* · *Apr. 2019 - Present*
• Proposed a new human-centric, fine-grained and atomic dataset which demonstrates the effectiveness of human-pose estimation and fine-grained class on video action recognition.

Princeton Vision & Learning Lab — RESEARCH INTERN (PROF. JIA DENG) 📍*Princeton, NJ* · *Jun. 2019 - Aug. 2019*
• Worked on CornerNet, an anchor-free object detection algorithm, and achieved the best performance among all the one-stage detectors (mAP: 58.1%) on 2019 Open Images Challenge - Object Detection Track.

Tencent Youtu Lab — R&D ALGORITHM INTERN (DR. YU-WING TAI) 📍*Shenzhen, China* · *Jan. 2019 - Feb. 2019*
• Deployed YOLO 3-based neural netwrok model for human attribute classification and localization on mobile devices.

Work Experience

DJI (Da-Jiang Innovations) — R&D ALGORITHM INTERN 📍*Shenzhen, China* · *May. 2018 - Sep. 2018*
• Built an AR live-stream car detection system by applying mobileNet and model compression on YOLO convolutional neural network (deep learning), which is 3x faster on time and 15x smaller on size compared to the original algorithm.

Harvard University (SEAS) — RESEARCH INTERN (PROF. EVELYN HU) 📍*Boston, MA* · *Jun. 2017 - Aug. 2017*
• Selected from 3200 HKUST engineering school and designed an electric system and software for the automobile function on the personal electric vehicle.

Square System Limited — SOFTWARE ENGINEERING INTERN 📍*Hong Kong* · *Jun. 2016 - Aug. 2016*
• Built an interactive website by HTML, CSS and JavaScript for demonstrating client's research results. Built a 720-degree panorama VR HKUST campus tour for school's information day.

Honors & Awards

Year	Award	Location
2015-2019	**Scholarship Scheme for Continuing Undergraduate**, HKUST	📍*Hong Kong*
2016-2019	**TWF ANZ Women in Science & Engineering Scholarship**, HKSAR	📍*Hong Kong*
2017	**Talent Development Scholarship**, HKSAR	📍*Hong Kong*
2016	**4th Place**, MATE International Remote Vehicle Competition	📍*Huston, TX*
2016	**Champion**, IET/MATE Hong Kong Underwater Robot Challenge	📍*Hong Kong*
2008	**Judges Award**, First Lego League	📍*Atlanta, GA*

Extracurricular Activity

Interdisciplinary Program Office — STUDENT AMBASSADOR 📍*Hong Kong* · *Sep. 2016 - Present*
• Representative of HKUST and introducing Interdisciplinary Program to enterprise delegations, professors and prospective students by multiple languages.

HKUST Robotics Team — SOFTWARE ENGINEER 📍*Hong Kong* · *Sep. 2015 - Jan. 2017*
• Worked in a multi-cultural environment with people from 8 different countries • Implemented ROS (Robot Operating System) on Robot's communication and design User Interface thorough QT creator for pilot to drive the robot.

Course Highlight

COMPUTER SCIENCE	O-O Programming, Data Structure, Algorithm Design, Data Mining, Software Construction, Applied Statistics, Data Mining, Big Data, Probabilistic of Artificial Intelligence, Computer Graphic, Information Retrieval, Cloud Computing, Compiler Design, Data Visualization, Computer Music
BUSINESS& FINANCE	Fixed-Income Securities, Business Case Analyses, Microeconomics, Macroeconomics, Labor Economics, Organizational Behavior, Cost and Managerial Accounting, Equity Investment, International Finance, Marketing, Global Case Analysis

Skills

Domain	Computer Vision, Deep Learning, Machine Learning, Computer Graphic, Case Analysis
PL/ Tools	Pytorch, Tensorflow, Darknet, Python, C&C++, CSS& HTML5, Linux, LATEX, Git, OpenCV, OpenGL, Scikit-learn
Languages	English, Mandarin, German, Taiwanese, Cantonese