Tianyuan(Alex) Du | Résumé

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Education

Bachelor of Science, Double Major in Computer Science and Statistics

University of Michigan, Ann Arbor   *2022/1 – 2024/5(expected)*

GPA: 3.80/4.00

Courses: Autonomous Robotics, Computer Vision, Data Mining, Human-Centric ML, Computer Organization, Data Structure, Combinatorics, Theoretical Statistics

Dual Degree in Computer Engineering and General Business Management

Hong Kong University of Science and Technology (HKUST)   *2020/9 – 2021/12*

Courses: Random Process, Signals and Systems, Multivariable Calculus, Matrix Algebra, Case Analysis

Experiences

ISC Lab, University of Michigan, Ann Arbor, US

Research Assistant   *2022/5 – 2023/10*

Under guidance of Professor Alanson Sample and graduate student Yang-Hsi Su, worked on a novel system for indoor sensing with Bluetooth Low Energy antenna array. Presented weekly reports over the summer(June to August). Built a 2-dimentional real-time sensing pipeline based on the hardware, designed experiments to evaluate its performance. Submitted to IEEE WCNC 2024.

ASTRI, Hong Kong SAR

Engineer Intern   *2021/7 – 2021/8*

Worked in Communication Division of Network Software Group, focusing on automated-driving vehicles to develop a system that could assist vehicles to park automatically. Developed an end-to-end automatic camera calibration pipeline with a senior engineer. Highly recognized by the group management team, and the work was presented to the Hong Kong Government.

Hong Kong University of Science and Technology (HKUST), Hong Kong SAR

Undergraduate Research Opportunity (UROP)   *2021/9 – 2022/2*

Under guidance of Professor Kevin Chau from HKUST, worked on a paper for improving speech intelligibility of hearing aid devices. Conducted experiments to evaluate a novel method proposed in the paper.

Awards

2022-2023: University Honor. Awarded by University of Michigan for academic excellence.

2021: Dean's List. Awarded by HKUST for academic excellence.

Computer skills

Languages: C++, C, Python, Java, Javascript, R, SQL

Expertise: Maching Learning, Computer Vision, Signal Processing, Backend Developement

Languages

Chinese: Mother tongue

English: Fluent