Mr. Zihan Wu

Contact

Position: PhD Candidate in Electrical Engineering, City University of Hong Kong
Phone: (+852) 6084 6893 or (+86) 188 5695 6416
Email: `zihanwu7-c@my.cityu.edu.hk` or `wzh4464@gmail.com`

Education

- Ph.D in Electrical Engineering, *City University of Hong Kong*, Hong Kong SAR, China 2020–Present
- B. S. in Mathematics, *University of Science and Technology of China*, Hefei Anhui, China 2015–2020
- B. S. in Physics, *University of Science and Technology of China*, Hefei Anhui, China 2015–2020

Teaching Experience

Department of Electrical Engineering, City University of Hong Kong

- Topics in Computer Graphics (EE5808) — Spring 2023
- Design Project (EE3070) — Fall 2022
- Linear Systems Theory & Design (EE6620) — Fall 2021

Research Experience

Tensor Decomposition and Machine Learning

Research Assistant, City University of Hong Kong Shenzhen Research Institute — Jun. 2020 – Sep. 2020

Single Molecular Semiconductor based on DNA structure

Research Assistant, Physics Department, University of Oxford — Jun. 2018 – Sep. 2018

Academic Paper Contest of Optics

- Head of Gruop: The Design and Research of Optical–Electrical Pulse Detecting System
- The First place of USTC — Sep. 2016 – Nov. 2016

China Undergraduate Physics Tournament: Single Lens Telescope

Group Leader, the First place of USTC   Mar. 2016 – Jun. 2016

Honors And Awards

- Hong Kong PhD Fellowship Scheme (HKPFS)   2020–Present
- National Encouragement Scholarship, given by the Ministry of Education of the People's Republic of China (top 2%)   2017–2018

Publications

Patents

1. Physical Activity Assessment System And Method – HK30081186   May. 2023

Papers

1. Zihan Wu, Muyu Li, Hong Yan: "Accurate Detection of Ellipses based on Co-clustering", paper under review

2. Zhaoke Huang, Zihan Wu, Hong Yan: "A Convex-Hull based Method with Manifold Projections for Detecting Cell Protrusions" , paper under review

3. Jie Xu, Sen Peng, Zihan Wu, Xiaohua Jia: "X-shard: An Optimistic Cross-shard Transaction Processing Protocol for Account-based Blockchains", paper under review

4. Zihan Wu, "Learn What is Important: Dataset Distillation for Large Language Models", paper under preparation

Skills Certification

1. English: TOEFL : 107 / 120, (Speaking : 23)
2. Other Skills: C++, Matlab, Pytorch

Research Interests

1. Machine Learning
2. Computer Vision
3. Natural Language Processing
4. Data Mining
5. Financial Engineering