Mr. Zihan Wu

Contact

Position: PhD Candidate in Electrical Engineering, City University of Hong Kong
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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 2024
- Design Project (EE3070) Fall 2023
- 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) 2020–2024
- 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, Zhaoke Huang, and Hong Yan, "Ellipse detection via global arc compatibilities and adaptive co-clustering for real-world measurement system," paper under review.
2. Zhaoke Huang, Zihan Wu, and Hong Yan, "A convex-hull based method with manifold projections for detecting cell protrusions," *Computers in Biology and Medicine*, 2024. (Equal contribution first author)
3. Zihan Wu, Zhaoke Huang, and Hong Yan, "Scalable Co-Clustering for Large-Scale Data through Dynamic Partitioning and Hierarchical Merging," *Proceedings of the 2024 IEEE International Conference on Systems, Man, and Cybernetics*, October 6-10, 2024, Kuching, Sarawak, Malaysia.

Skills Certification

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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