

Mr. ZIHAN WU

CONTACT

Position: PhD Candidate in Electrical Engineering, City University of Hong Kong
Phone: (+852) 9810 6427 or (+86) 188 5695 6416
Email: zihanwu7-c@my.cityu.edu.hk or wzh4464@gmail.com

EDUCATION

- Ph.D Candidate 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

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|---|-------------|
| • 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

RESEARCH ASSISTANT

Department of Electrical Engineering, City University of Hong Kong	Nov. 2024 – Present
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TENSOR DECOMPOSITION AND MACHINE LEARNING

Research Assistant, City University of Hong Kong Shenzhen Research Institute	Jun. 2020 – Sep. 2020
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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 Group: 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. Jie Xu, Zihan Wu, Cong Wang, and Xiaohua Jia, “LMEraser: Large model unlearning via adaptive prompt tuning,” to appear in *28th International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2025. (Equal contribution first author)
2. 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.
3. Zihan Wu, Zhaoke Huang, and Hong Yan, “Ellipse detection via global arc compatibilities and adaptive co-clustering for real-world measurement systems,” accepted by *IEEE Transactions on Instrumentation & Measurement*, 2024.
4. 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)
5. Jie Xu, Yulong Ming, Zihan Wu, Cong Wang, and Xiaohua Jia, “X-Shard: Optimistic cross-shard transaction processing for sharding-based blockchains,” *IEEE Transactions on Parallel and Distributed Systems*, 2024.
6. Jie Xu, Zihan Wu, Cong Wang, and Xiaohua Jia, “Machine unlearning: Solutions and challenges,” *IEEE Transactions on Emerging Topics in Computational Intelligence*, 2024.

SKILLS CERTIFICATION

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

RESEARCH INTERESTS

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