

# Mr. ZIHAN WU

## CONTACT

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Position: PhD Candidate in Electrical Engineering, City University of Hong Kong  
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## EDUCATION

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- 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

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### 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

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### 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

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- 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

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### 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

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

## RESEARCH INTERESTS

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