

Zihan Wu

📍 PhD Candidate in Electrical Engineering, City University of Hong Kong
✉ wzh4464@gmail.com | 📞 (+852) 9810 6427 or (+86) 188 5695 6416
🌐 <https://scholar.zihanng.shop> | [in](#) zihan-wu-ustc | [g](#) wzh4464 | [R](#) Zihan-Wu-13
🆔 0000-0002-6551-6177

EDUCATION

City University of Hong Kong, Electrical Engineering <i>Ph.D Candidate, Electrical Engineering</i>	Hong Kong SAR, China 2020 – Present
University of Science and Technology of China <i>Bachelor of Science, Physics</i>	Hefei Anhui, China 2015 – 2020
University of Science and Technology of China <i>Bachelor of Science, Mathematics and Applied Mathematics</i>	Hefei Anhui, China 2015 – 2020

PROFESSIONAL EXPERIENCE

City University of Hong Kong, Department of Electrical Engineering <i>Research Assistant</i>	Hong Kong Nov. 2024 – Present
City University of Hong Kong, Department of Electrical Engineering <i>Teaching Assistant, Design Project, Topics in Computer Graphics, Linear Systems Theory & Design</i>	Hong Kong 2021 – 2024
City University of Hong Kong Shenzhen Research Institute <i>Research Assistant, Tensor Decomposition and Machine Learning</i>	Shenzhen, China Jun. 2020 – Sep. 2020
University of Oxford, Physics Department <i>Research Assistant, Single Molecular Semiconductor based on DNA structure</i>	Oxford, UK Jun. 2018 – Sep. 2018

PROJECTS

Machine Unlearning Research and Applications <i>Machine Learning, Privacy</i>	Hong Kong 2023 – Present
<ul style="list-style-type: none">Developed LMEraser system with adaptive prompt tuning techniques for large language model unlearningImplemented efficient methods to remove specific knowledge from pre-trained modelsResearched state-of-the-art techniques and challenges in machine unlearningSkills: PyTorch, Transformers, Prompt EngineeringPublications: AISTATS 2025, IEEE Trans. on Emerging Topics in Computational Intelligence	
Co-Clustering Algorithms and Applications <i>Computer Vision, Data Mining, Computational Biology</i>	Hong Kong 2022 – Present
<ul style="list-style-type: none">Designed scalable co-clustering algorithms with dynamic partitioning and hierarchical merging for large datasetsDeveloped novel adaptive co-clustering for ellipse detection in real-world measurement systemsCreated convex-hull based method with manifold projections for detecting cell protrusionsSkills: C++, MATLAB, Image Processing, Computational Geometry, Statistical AnalysisPublications: IEEE SMC 2024, IEEE Trans. on Instrumentation & Measurement, Computers in Biology and Medicine	
X-Shard: Transaction Processing for Blockchain <i>Distributed Systems, Blockchain</i>	Hong Kong 2023 – 2024
<ul style="list-style-type: none">Contributed to optimistic cross-shard transaction processing algorithmsImplemented and evaluated blockchain sharding techniquesSkills: Distributed Algorithms, Rust, Performance AnalysisPublication: IEEE Trans. on Parallel and Distributed Systems	

SKILLS

Languages: English (TOEFL: 107/120, Speaking: 23);
Programming: C++, MATLAB, PyTorch, Rust, Transformers, Image Processing, Distributed Algorithms;
Research Areas: Machine Learning, Computer Vision, Natural Language Processing, Data Mining, Blockchain, Privacy-Preserving ML;
Technical Skills: Algorithm Optimization, Statistical Analysis, Computational Geometry;

AWARDS & HONOURS

Hong Kong PhD Fellowship Scheme (HKPFS)	2020–2024
National Encouragement Scholarship: <i>given by the Ministry of Education of the People's Republic of China (top 2%)</i>	2017–2018
Physical Activity Assessment System And Method: Patent HK30081186	May. 2023