Zhiyong Wang | Curriculum Vitae

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Ⓖ https://scholar.google.com/citations?user=JnT7gacAAAAJhl=zh-CN

EDUCATION

Cornell University   **Ithaca, New York, USA**
Visiting Ph.D. in Computer Science and Engineering   *Mar.2024–Present*
Supervised by Prof. Wen Sun

The Chinese University of Hong Kong   **Hong Kong, China**
Ph.D. in Computer Science and Engineering   *Aug.2021–Present*
ANSR Lab, supervised by Prof. John C.S. Lui

Huazhong University of Science and Technology   **Wuhan, China**
B.E. in Electronic Information Engineering   *Sep.2017–Jun.2021*
Advanced Class in Mathematics and Physics for Information Science

RESEARCH INTERESTS

My current research mainly focuses on reinforcement learning theory, online learning, and multi-armed bandits.

PREPRINTS

○ **Variance-Dependent Regret Bounds for Non-stationary Linear Bandits,**
Zhiyong Wang, Jize Xie, Yi Chen, John C.S. Lui, Dongruo Zhou.

PUBLICATIONS

○ **Online Optimal Service Caching for Multi-Access Edge Computing: A Constrained Multi-Armed Bandit Optimization Approach,**
Weibo Chu, Xiaoyan Zhang, Xinming Jia, John C.S. Lui, Zhiyong Wang,
Computer Networks. 2024.

○ **Federated Contextual Cascading Bandits with Asynchronous Communication and Heterogeneous Users,**
Hantao Yang, Xutong Liu, Zhiyong Wang, Hong Xie, John C.S. Lui, Defu Lian, Enhong Chen,
Accepted in the AAAI Conference on Artificial Intelligence (AAAI), 2024.

○ **Learning Context-Aware Probabilistic Maximum Coverage Bandits: A Variance-Adaptive Approach,**
Xutong Liu, Jinhang Zuo, Junkai Wang, Zhiyong Wang, Yuedong Xu, John C.S. Lui,
IEEE International Conference on Computer Communications (INFOCOM), 2024.

○ **Online Clustering of Bandits with Misspecified User Models,**
Zhiyong Wang, Jize Xie, Xutong Liu, Shuai Li, John C.S. Lui,
Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023.

○ **Online Corrupted User Detection and Regret Minimization,**
Zhiyong Wang, Jize Xie, Xutong Liu, Shuai Li, John C.S. Lui,
Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023.

○ **Adversarial Attacks on Online Learning to Rank with Click Feedback,**
Jinhang Zuo, Zhiyao Zhang, Zhiyong Wang, Shuai Li, Mohammad Hajiesmaili, Adam Wierman,
Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023.

○ **Efficient Explorative Key-term Selection Strategies for Conversational Contextual Bandits,**
Zhiyong Wang, Jize Xie, Xutong Liu, Shuai Li, John C.S. Lui,

Thirty-seventh AAAI Conference on Artificial Intelligence (AAAI), 2023.

WORKING EXPERIENCE

1. Microsoft Research Asia (Jun. 2023- Sep. 2023) -Theory Center, Research Intern,
Mentor: Dr. Wei Chen.

HONORS & AWARDS

Full Postgraduate Studentship	2021-2025, **CUHK**
Outstanding Graduates of Huazhong University of Science and Technology	2021, **HUST**
Outstanding Undergraduates in terms of Academic Performance (3%)	2017-2021, **HUST**
Scholarship for excellent academic performance (3%)	2019-2020, **HUST**
S. I. Komarova Scholarship for academic excellence	2020, **Valeon**
National Scholarship twice	2017-2018, 2018-2019, **Ministry of Education of China**
Merit Student twice (3%)	2017-2018, 2018-2019, **HUST**
Scholarship for Exploration	2018, **Whale Education Foundation**
Second Prize in the 11th Mathematical Modeling Competition of Central China	2018, **HBSIAM**
Scholarship for outstanding academic performance for Freshmen	2017-2018, **HUST**

TEACHING ASSISTANT

CSCI2040: Introduction to Python	**Fall 2021, CUHK**
CSCI1510: Computer Principles and C Programming	**Spring 2022, CUHK**
CSCI2040: Introduction to Python	**Fall 2022, CUHK**
CSCI2040: Introduction to Python	**Spring 2023, CUHK**
CSCI2040: Introduction to Python	**Fall 2023, CUHK**

SKILLS

Programming Skills: Python, Matlab, C.

Languages: English (IELTS: 7.0) and Mandarin Chinese (native language).