Zhiyong Wang | Curriculum Vitae

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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

I am interested in multi-armed bandits, reinforcement learning, and their applications (e.g., recommendation systems, computer networks, etc).

PREPRINTS

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

PUBLICATIONS (* denotes equal contribution)

- **Quantifying the Merits of Network-Assist Online Learning in Optimizing Network Protocols,**
  Xiangxiang Dai*, Zhiyong Wang*, Jiancheng Ye, John C.S. Lui,
  Accepted in the IEEE/ACM International Symposium on Quality of Service (IWQoS), 2024.
- **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).