

Zhiyong Wang | Curriculum Vitae

The Chinese University of Hong Kong, Shatin, N.T., Hong Kong SAR

☎ (+852) 9207 8123 • ✉ zhiyongwangwzy@gmail.com

🌐 <https://zhiyongwangwzy.github.io/>

in <https://www.linkedin.com/in/zhiyong-wang-a44aaa1a3/>

🐦 <https://twitter.com/Zhiyong16403503>

🔗 <https://scholar.google.com/citations?user=JnT7gacAAAAJhl=zh-CN>

EDUCATION

Cornell University

Visiting Ph.D. in Computer Science and Engineering

Supervised by Prof. Wen Sun

Ithaca, New York, USA

Mar.2024–Present

The Chinese University of Hong Kong

Ph.D. in Computer Science and Engineering

ANSR Lab, supervised by Prof. John C.S. Lui (ACM/IEEE Fellow)

Hong Kong, China

Aug.2021–Present

Huazhong University of Science and Technology

B.E. in Electronic Information Engineering

Advanced Class in Mathematics and Physics for Information Science

Wuhan, China

Sep.2017–Jun.2021

RESEARCH INTERESTS

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

PUBLICATIONS (* denotes equal contribution)

- **Towards Zero-Shot Generalization in Offline Reinforcement Learning**,
Zhiyong Wang, Chen Yang, John C.S. Lui, Dongruo Zhou,
Accepted in the Adaptive Learning in Complex Environments TTIC Workshop, 2024.
Also accepted in ICML 2024 Workshop: Aligning Reinforcement Learning Experimentalists and Theorists.
- **Variance-Dependent Regret Bounds for Non-stationary Linear Bandits**,
Zhiyong Wang, Jize Xie, Yi Chen, John C.S. Lui, Dongruo Zhou,
Accepted in the Adaptive Learning in Complex Environments TTIC Workshop, 2024.
Also accepted in ICML 2024 Workshop: Foundations of Reinforcement Learning and Control – Connections and Perspectives.
- **Combinatorial Multivariate Multi-Armed Bandits with Applications to Episodic Reinforcement Learning and Beyond**,
Xutong Liu, Siwei Wang, Jinhang Zuo, Han Zhong, Xuchuang Wang, Zhiyong Wang, Shuai Li, Mohammad Hajiesmaili, John C.S. Lui, Wei Chen,
Accepted in the Forty-first International Conference on Machine Learning (ICML), 2024.
- **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 (IEEE Fellow, Director of Microsoft Research Asia Theory Center).

HONORS & AWARDS

TTIC Summer Workshop Travel Grant	2024, TTIC
Reaching Out Award	2024, HKSAR Government
Full Postgraduate Studentship	2021-2025, HKSAR Government
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).