

Maoli Liu | Curriculum Vitae

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EDUCATION

The Chinese University of Hong Kong <i>Ph.D. in Computer Science and Engineering</i> Advanced Networking and System Research Laboratory (ANSRLab) Supervised by Prof. John C.S. Lui	Hong Kong 2020–Present
Xi'an Jiaotong University <i>B.E. in Information Engineering</i> School of Information and Communications Engineering	Xi'an, China 2016–2020

RESEARCH INTERESTS

My current research focuses on multi-armed bandits theory and applications in various areas, such as computer networks and recommender systems. I am also interested in quantum networking and quantum computing.

PUBLICATIONS (* means equal contribution)

- Zhuohua Li*, **Maoli Liu***, and John C.S. Lui. FedConPE: Efficient Federated Conversational Bandits with Heterogeneous Clients. In *Proceedings of the 33rd International Joint Conference on Artificial Intelligence (IJCAI-24)*.
- **Maoli Liu**, Zhuohua Li, Xuchuang Wang, and John C.S. Lui. LINKSELfIE: Link Selection and Fidelity Estimation in Quantum Networks. In *Proceedings of the IEEE Conference on Computer Communications 2024. INFOCOM '24*.
- **Maoli Liu***, Zhuohua Li*, Kechao Cai, Jonathan Allcock, Shengyu Zhang, and John C.S. Lui. Quantum BGP with Online Path Selection via Network Benchmarking. In *Proceedings of the IEEE Conference on Computer Communications 2024. INFOCOM '24*.
- Junzhou Zhao, Pinghui Wang, Wei Zhang, Zhaosong Zhang, **Maoli Liu**, Jing Tao, and John C.S. Lui. Tracking Influencers in Decaying Social Activity Streams With Theoretical Guarantees. In *IEEE/ACM Transactions on Networking, 2023*.
- **Maoli Liu**, Jonathan Allcock, Kechao Cai, Shengyu Zhang, and John C.S. Lui. Quantum Networks with Multiple Service Providers: Transport Layer Protocols and Research Opportunities. In *IEEE Network, 2022*, 36(5): 56–62.

PROFESSIONAL SERVICES

Reviewer: NeurIPS 2024, IEEE/ACM Transactions on Networking, IEEE Internet of Things Journal

TEACHING ASSISTANT

CSCI3320: Fundamentals of Machine Learning	Spring 2021, CUHK
CSCI2040: Introduction to Python	Fall 2020–2023, Spring 2023, CUHK
CSCI1510: Computer Principles and C Programming	Spring 2022, CUHK

HONORS & AWARDS

INFOCOM Student Travel Grant	2024, IEEE ComSoc
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Outstanding Graduates of XJTU	2020, XJTU
Outstanding Students of XJTU	2016–2017, 2017–2018, 2018–2019, XJTU
National Encouragement Scholarship	2018-2019, the Ministry of Education of China
National Scholarship	2016–2017, 2017–2018, the Ministry of Education of China

COMPUTER SKILLS

Programming Languages: Python, Matlab, C/C++, L^AT_EX

Tools: VS Code, Git, Obsidian