

# Maoli Liu | Curriculum Vitae

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

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

## RESEARCH INTERESTS

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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)

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- 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

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

## TEACHING ASSISTANT

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

## HONORS & AWARDS

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INFOCOM Student Travel Grant	2024, <b>IEEE ComSoc</b>
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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, <b>the Ministry of Education of China</b>
National Scholarship	2016–2017, 2017–2018, <b>the Ministry of Education of China</b>

## COMPUTER SKILLS

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**Programming Languages:** Python, Matlab, C/C++,  $\LaTeX$

**Tools:** VS Code, Git, Obsidian