

# BIN LUO | Curriculum Vitae

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

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## EDUCATION

### The Chinese University of Hong Kong (CUHK)

*Ph.D. Student in Computer Science and Engineering, GPA: 3.87/4.00*

Advanced Networking and System Research Laboratory (ANSRLab)

Supervised by Choh-Ming Li Chair Prof. John C.S. Lui (IEEE Fellow, ACM Fellow)

Hong Kong, China

Aug. 2023 – Present

### Sun Yat-sen University (SYSU)

*Bachelor of Science, Mathematics and Applied Mathematics, GPA: 91/100*

Guangdong, China

Sept. 2019 - June 2023

## RESEARCH INTERESTS

My current research focuses on the theory of quantum computing and quantum algorithms, as well as their applications in machine learning, reinforcement learning and quantum network.

## PUBLICATIONS

- **Bin Luo**, John C.S. Lui. On the Analysis of a Quantum MDP Algorithm for Optimizing the Entanglement Throughput of Quantum Switches. *24rd International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, 2026*. WiOpt' 26.
- **Bin Luo**, Xiaojun Lin, John C.S. Lui. Structural Property of the Optimal Entanglement Policy for Quantum Network Switch: An MDP Approach. *IEEE/ACM Transactions on Networking*. ToN' 26.
- **Bin Luo**, Yuwen Huang, Jonathan Allcock, Xiaojun Lin, Shengyu Zhang, John C.S. Lui. Quantum Algorithms for Finite-horizon Markov Decision Processes. *Forty-Second International Conference on Machine Learning 2025*. ICML' 2025.
- **Bin Luo**, Xiaojun Lin, John C.S. Lui. Exploring the Structural Property of the Optimal Entanglement Policy for Quantum Switch. *IEEE Conference on Computer Communications 2025*. INFOCOM' 25.
- XIAO Yao, **LUO Bin**, CHEN Yuhuan, WEI Pengxu, LIN Liang. Robust Unsupervised Domain Adaptation Image Classification Model Based on Adversarial Distillation. Patent, CN115019106A, 2022.

## HONORS & AWARDS & GRANTS

China Association for Science and Technology Young Science & Technology Talent Training Program –  
Doctoral Fellowship, Sponsor: China Science and Technology Development Foundation. 2025  
Type-A Student Travel Grant of IEEE INFOCOM 2025  
SYSU Outstanding Undergraduate Thesis Award (Top 11 of 170) 2023  
Meritorious Winner, Mathematical Contest in Modeling (Top 7% in the world) 2021  
SYSU Outstanding Student Second Class Scholarship (Top 10 of 84) 2019 - 2020  
SYSU Outstanding Student First Class Scholarship (Top 5 of 84) 2020 - 2021  
Excellent Student Cadre of School of Mathematics, SYSU 2019 - 2021  
Outstanding Volunteers of School of Mathematics, SYSU 2019 - 2021

## PROFESSIONAL SERVICE

**Reviewer:** IEEE/ACM Transactions on Networking, ICML 2026, QCNC 2026, ICC 2026

## TEACHING ASSISTANT

CSCI2040: Introduction to Python

Fall 2023-Fall 2024, CUHK

CSCI5370: Quantum Computing  
CSCI2040: Introduction to Python  
CSCI2040: Introduction to Python

Spring 2025, **CUHK**  
Fall 2025, **CUHK**  
Spring 2026, **CUHK**

## **EXTRACURRICULAR ACTIVITIES**

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**Student Union of School of Mathematics, SYSU**

Sept. 2020 - June 2021

*Member of the Presidium*

- Coordinated three departments with 30 cadre and officers and organized recruitment, training, and meetings.
- Organized seven large-scale activities with 2,000+ participants and promoted the college's academic events.