

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**, 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

INTERNSHIP

Tencent Quantum Laboratory, Tencent

Research Intern, Mentor: Dr. Shengyu Zhang and Dr. Jonathan Allcock

- Tested and validated the front-end platform for implementing quantum algorithms

Hong Kong, China

Feb. 2026 – Oct. 2026

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

Spring 2025, **CUHK**

CSCI2040: Introduction to Python

Fall 2025, **CUHK**

CSCI2040: Introduction to Python

Spring 2026, **CUHK**

EXTRACURRICULAR ACTIVITIES

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.