

JINGYAN ZHANG

+852 94909973 ◇ Hong Kong

u3597410@connect.hku.hk ◇ [LinkedIn](#) ◇ [Personal Website](#)

EDUCATION

University of Hong Kong

B.S. in Quantitative Finance and Mathematics

Sept 2022 - present

GPA: 4.01/4.3

University of North Carolina at Chapel Hill (HKU worldwide program)

B.S in Mathematics and Operations Research

Fall 2025 (predicted)

RESEARCH EXPERIENCE

Research Assistant

Apr 2025 - Present

Department of Data and System Engineering, *University of Hong Kong*

Hong Kong

- Developed a stochastic choice model for EV charging networks using bipartite graphs to optimize user charging decisions. The model formulates spatiotemporal choices through discrete selection processes while incorporating queuing dynamics and pricing strategies, with equilibrium analysis revealing mutually optimal user-provider behaviors.
- Supervisor: [Prof. Yong-Hong Kuo](#), [Prof. Candace A. Yano](#)

Research Assistant

Aug 2024–Present

Department of Innovation and Information Management, *University of Hong Kong*

Hong Kong

- Develop optimal sequential decision frameworks for innovation processes under finite-time constraints, formulating stopping policies that maximize the expected highest-value idea implementation when only the best candidate can be selected.
- Analyze optimal treatment timing in SIS model with cycling infection rates, solving HJB equations to determine cost-minimizing intervention strategies under varying transmission conditions.
- Analyze multi-armed bandit problems with dependent arms across binary/continuous belief spaces. Prove value function convexity via dynamic tree construction, derive efficient frontiers in 2D/3D regions, and develop numerical algorithms for HJB solutions ([SSRN 4847785](#)).
- Supervisor: [Prof. Zhengli Wang](#)

TEACHING EXPERIENCE

University of Hong Kong | *Teaching Assistant*

- COMP1117 Computer Programming, 2024-2025

AWARDS AND ACTIVITIES

Dean's Honours List 2022-2023

Dean's Honours List 2023-2024

Martin Scholarship 2024

World Asian Case Competition 2023 World's Best Case Winners (Silver Medal)

SKILLS

Software

Python, Matlab, L^AT_EX, VBA

Languages

Mandarin, English, Cantonese