

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: 3.96/4.3

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

B.S in Mathematics

Fall 2025 (predicted)

RESEARCH EXPERIENCE

Research Assistant

Apr 2025 - Present

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

Hong Kong

- Analyzed and developed models for Hong Kong's healthcare system, leveraging stochastic optimization and machine learning techniques. Focused on optimizing inpatient ward allocation and reducing patient waiting times to enhance operational efficiency and resource management.
- Waiting time for charging Electric Vehicle, using queuing theory and equilibrium method to solve.
- 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

- Working on a paper about optimal abandonment and return, applying dynamic programming to derive solutions.
- Conducted research on solutions for second-order Hamilton-Jacobi-Bellman equations, contributing theoretical insights to optimal policy problems within the [project](#), and used the finite difference method to numerically solve and visualize HJB equations.
- Developed mathematical proofs for tree construction (Dynamic Efficient Frontier) and convexity of the optimal control value function within the [project](#), with derivations and visualizations created using \LaTeX and MATLAB.
- 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, \LaTeX , VBA

Languages

Mandarin, English, Cantonese