

JINGYAN ZHANG

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EDUCATION

University of Hong Kong

B.S. in Quantitative Finance and Mathematics

Sept 2022 - present

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

B.S in Mathematics

Fall 2025 (predicted)

RESEARCH INTEREST

My research interest lies in stochastic modeling and data-driven decision making. In my research, I use various techniques, including stochastic control theory, data-driven optimization and machine learning methods.

RESEARCH EXPERIENCE

Research Assistant

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

Jun 2025 - Present

Hong Kong

- HKU Summer Research Programme, selected from 100 out of 4000 applicants.
- Supervisor: [Prof. Yong-Hong, KUO](#)

Research Assistant

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

Aug 2024 - Present

Hong Kong

- Conducted in-depth research on the solutions for second-order Hamilton-Jacobi-Bellman equations, providing 10-page section with theoretical insights that contributed to a broader understanding of optimal policy problems within the [working paper](#). Additionally, utilized the finite difference method to numerically solve and plot HJB equations.
- Created mathematical proofs for tree construction (Dynamic Efficient Frontier) and convexity of optimal control value function within the [working paper](#), resulting in a detailed 10-page section that included rigorous derivations and comprehensive visualizations using \LaTeX and MATLAB.
- Supervisor: [Prof. Zhengli Wang](#)

Research Assistant

School of Computing and Data Science, *University of Hong Kong*

Aug 2024

Hong Kong

- Applied machine learning to replicate probability and statistics problems, providing targeted recommendations.
- Quickly learned and innovated on existing statistical learning materials using relevant knowledge.
- Supervisor: [Dr. Kam Pui, Wat](#)

TEACHING EXPERIENCE

University of Hong Kong | *Teaching Assistant*

- COMP1117 Computer Programming, 2024-2025

AWARDS AND ACTIVITIES

Dean's Honours List 2022-2023

Oct 2023

Dean's Honours List 2023-2024

Jan 2025

Martin Scholarship HK\$1000

Sep 2024

World Asian Case Competition 2023 World's Best Case Winners (Silver Medal) \$1000

Jun 2023

SKILLS

Software	Python, Matlab, L ^A T _E X, STATA, Excel
Soft Skills	Quick Learner, Leadership
Languages	Mandarin, English, Cantonese