

# JINGYAN ZHANG

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## EDUCATION

### University of Hong Kong

*B.S. in Quantitative Finance and Mathematics, minor in statistics and computer science*

Sept 2022 - present

GPA: 3.96/4.3

### University of North Carolina at Chapel Hill

*B.S in Mathematics*

Fall 2025 (predicted)

## RESEARCH EXPERIENCE

### 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  $\text{\LaTeX}$  and MATLAB.
- Dedicated 20 hours per week to research activities, regularly improving algorithms for plots in papers, and reporting progress and findings to the supervisor.
- Supervisor: [Prof. Wang Zhengli](#)

### 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. Wat Kam Pui](#)

## TEACHING EXPERIENCE

### University of Hong Kong | *Teaching Assistant*

- COMP1117 Computer Programming, 2024-2025

## INTERNSHIP EXPERIENCE

### Investment Analyst

China Sunrise Asset Management

Jun 2024 - Aug 2024

*Hong Kong*

- Analyzed and synthesized numerous research reports on Mainland China's education, milk tea, short-video advertisements, and real estate industries, compiling comprehensive summary reports.
- Utilized Bloomberg to analyze Hong Kong stocks, exported data to Spreadsheet, and managed weekly company document processing tasks.

## 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**

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<b>Software</b>	Python, Matlab, L <sup>A</sup> T <sub>E</sub> X, STATA, Excel
<b>Soft Skills</b>	Quick Learner, Leadership
<b>Languages</b>	Mandarin, English, Cantonese