Qingkai Zhang

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Current Position

Research Assistant Professor
Department of Decision Analytics and Operations
College of Business, City University of Hong Kong

Education

City University of Hong Kong
Ph.D. in Decision Analytics and Operations, 2023–2026
Ranking: 1/11; GPA: 4.26/4.3

Fudan University
Ph.D. in Management Science, 2020–2026
Ranking: 1/9; GPA: 3.76/4.0

Dalian University of Technology
B.Sc. in Information and Computational Science, 2016–2020
Ranking: 1/126; WAM: 89.9/100

Research Interests

Stochastic Simulation, Generative AI, Data-driven Risk Analytics, Supply Chain Finance, Gradient Estimation, LLM Agent

† Authors listed in alphabetical order. * Corresponding author.

Publications

Qingkai Zhang, L. Jeff Hong, and Houmin Yan.
Conditional Generative Modeling for Enhanced Credit Risk Management in Supply Chain Finance.
Naval Research Logistics (2025).

- A related U.S. nonprovisional patent was filed in 2026.

L. Jeff Hong, Yanxi Hou, **Qingkai Zhang**†, and Xiaowei Zhang.
Learning to Simulate: Generative Metamodeling via Quantile Regression.
Accepted by *INFORMS Journal on Computing*.

Working Papers

Zhiyang Liang and **Qingkai Zhang***.
E-QRGMM: Efficient Generative Metamodeling for Covariate-dependent Uncertainty Quantification.
Major revision at *Annals of Operations Research*.

Nifei Lin, **Qingkai Zhang**, and L. Jeff Hong.
Learn-Then-Differentiate Gradient Estimation.
Submitted to *Operations Research*.

L. Jeff Hong, Zhiyang Liang, Nifei Lin, and **Qingkai Zhang**†.
Higher Order Kernel Estimation of Sensitivities for Discontinuous Simulation Responses.

Zaile Li, Zhiyang Liang, and **Qingkai Zhang**†.
DeltaEval: Trajectory-Aware Adaptive Evaluation of Evolving Large Language Models.

Presentations

Conditional Generative Modeling for Enhanced Credit Risk Management in Supply Chain Finance.

- 2025 POMS international Conference in China (July 2025)
- INFORMS 2024 Annual Meeting (October 2024)

Learning to Simulate: Generative Metamodeling via Quantile Regression.

- 33rd European Conference on Operational Research (July 2024)
- 14th POMS-HK International Conference (January 2024)

Teaching

Course Instructor at City University of Hong Kong, College of Business
MS5225: Business Process Modelling and Simulation
Master's programme, Semester A 2026/27

Teaching Assistant at Fudan University, School of Management
Stochastic Operations Research (Undergraduate), Fall 2021
Operations Management (IMBA), Spring 2022
Intelligent Simulation (PhD), Fall 2022
Introduction to Python for Business Programming (MBA), Fall 2022

Teaching Assistant at City University of Hong Kong, College of Business
Understanding Uncertainty and Statistical Reasoning (Undergraduate), Fall 2023
Data-driven Business Modeling (Undergraduate), Fall 2023, Spring 2024

Professional Experience

Laboratory for AI-Powered Financial Technologies (Hong Kong)
Research Assistant, Sep 2024 – Aug 2026
Conducting applied research on data-driven credit risk modeling, generative modeling, and decision analytics for real-world supply chain finance scenarios.

Beijing Huanya Geo-Science Technology Co., Ltd.
Intern, Oct 2025
Collaborative research on Mineral identification and exploration using hyperspectral data and data-driven analytical techniques.

Bifu Information Technology (Shanghai)
Intern, Aug 2021 - Dec 2021
Developed large-scale supply chain scheduling and planning algorithms for Coca-Cola.

Selected Awards

First Prize, Fudan University Doctoral Forum (Research Paper Competition)
First-Class Scholarship for Outstanding Merits, Fudan University
Guotai Junan Corporate Social Scholarship
National Scholarship (×3)
Excellent Graduate of Liaoning Province

Personal Information

Languages: Mandarin Chinese (native), English (fluent), Cantonese (basic)
Programming: Python, R, MATLAB, Julia, C, LaTeX
Hobbies: fitness, badminton, running, hiking, swimming, table tennis