# Chengpiao Huang

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#### **Education**

#### Columbia University

New York, United States

PhD candidate, Industrial Engineering and Operations Research Advisor: Kaizheng Wang September 2022 – Present

#### The Chinese University of Hong Kong, Shenzhen

Shenzhen, China

Bachelor of Science, Mathematics and Applied Mathematics

September 2018 – May 2022

## **Research Papers**

( $\alpha$ - $\beta$  denotes alphabetical ordering.)

• Uncertainty Quantification for LLM-Based Survey Simulations

Chengpiao Huang, Yuhang Wu, Kaizheng Wang International Conference on Machine Learning (ICML), 2025.

• Distribution-Free Predictive Inference under Unknown Temporal Drift

Elise Han, Chengpiao Huang, Kaizheng Wang ( $\alpha$ - $\beta$ ) arXiv preprint arXiv:2406.06516, 2024.

• Model Assessment and Selection under Temporal Distribution Shift

Elise Han, Chengpiao Huang, Kaizheng Wang ( $\alpha$ - $\beta$ ) *International Conference on Machine Learning (ICML)*, 2024.

• A Stability Principle for Learning under Non-Stationarity

Chengpiao Huang, Kaizheng Wang ( $\alpha$ - $\beta$ ) *Operations Research, Forthcoming.* 

## **Presentations**

- Uncertainty Quantification for LLM-Based Survey Simulations
  - Talk: NYC Operations Day PhD Colloquium (March 2025), Columbia Foundations of Data Science Workshop (April 2025), New England Statistics Symposium (June 2025)
  - Poster: Columbia AI Summit (March 2025), NYC Operations Day (March 2025), Columbia Data Science Day (April 2025), Columbia Optimization and Statistical Learning Workshop (April 2025), Columbia Foundations of Data Science Workshop (April 2025)
- Model Assessment and Selection under Temporal Distribution Shift
  - Talk: New England Statistics Symposium (May 2024)
  - Poster: Columbia Data Science Day (April 2024), Columbia Foundations of Data Science Workshop (April 2024), New York Academy of Sciences Machine Learning Symposium (October 2024)
- A Stability Principle for Learning under Non-Stationarity
  - Talk: NYC Operations Day PhD Colloquium (May 2024), INFORMS Annual Meeting (October 2024)
  - Poster: NYC Operations Day (May 2024)

## Honors and Awards

• Best Presentation Award, The 38th New England Statistics Symposium	2025
Outstanding Teaching Assistant Award in IEOR, Columbia University	2025
• Second Place, 2023 INFORMS Blue Summit Supplies Data Challenge	2023
• Samuel N. Rubinstein Fellowship, Columbia University	2022
Academic Performance Scholarship, CUHK(SZ)	2019-2022

### **Professional Service and Activities**

- Reviewer for International Conference on Machine Learning (ICML)
- Co-organizer of NYC Operations Day PhD Student Colloquium

# **Teaching Experience**

At Columbia University, as a Graduate Teaching Assistant:

- IEOR E8100 High-Dimensional Probability with Applications: Spring 2024
- IEOR E4101 Probability, Statistics and Simulation: Fall 2024
- IEOR E3658 Probability for Engineers: Spring 2025
- IEOR E3402 Production Planning and Inventory Control: Spring 2023
- IEOR E3106 Stochastic Systems and Applications: Fall 2023

At The Chinese University of Hong Kong, Shenzhen, as an Undergraduate Student Teaching Fellow:

- MAT3006 Real Analysis: Spring 2021, Fall 2021
- MAT2006 Elementary Real Analysis: Fall 2020
- MAT1001 Calculus: Fall 2019