

Chengpiao Huang

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Education

Columbia University

PhD candidate, Industrial Engineering and Operations Research
Advisor: Kaizheng Wang

New York, United States

September 2022 – Present

The Chinese University of Hong Kong, Shenzhen

Bachelor of Science, Mathematics and Applied Mathematics

Shenzhen, China

September 2018 – May 2022

Research Papers

(α - β denotes alphabetical ordering.)

- **Uncertainty Quantification for LLM-Based Survey Simulations**

Chengpiao Huang, Yuhang Wu, Kaizheng Wang

arXiv preprint arXiv:2502.17773, 2025.

- **Distribution-Free Predictive Inference under Unknown Temporal Drift**

Elise Han, Chengpiao Huang, Kaizheng Wang (α - β)

arXiv preprint arXiv:2406.06516, 2024.

- **Model Assessment and Selection under Temporal Distribution Shift**

Elise Han, Chengpiao Huang, Kaizheng Wang (α - β)

International Conference on Machine Learning (ICML), 2024.

- **A Stability Principle for Learning under Non-Stationarity**

Chengpiao Huang, Kaizheng Wang (α - β)

Operations Research, accepted.

Presentations

- **Uncertainty Quantification for LLM-Based Survey Simulations**

- Talk: NYC Operations Day PhD Colloquium (March 2025), Columbia Foundations of Data Science Workshop (April 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)

- **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)

- **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)

Honors and Awards

- 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