

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)

arXiv preprint arXiv:2310.18304, 2023.

Presentations

- A Stability Principle for Learning under Non-Stationarity

- Talks: INFORMS Annual Meeting (October 2024), NYC Operations Day Joint PhD Colloquium (May 2024)

- Poster: NYC Operations Day (May 2024)

- Model Assessment and Selection under Temporal Distribution Shift

- Talk: The 37th New England Statistics Symposium (May 2024)

- Posters: The 15th New York Academy of Sciences Machine Learning Symposium (October 2024), Columbia Data Science Day (April 2024), Columbia Foundations of Data Science Center Workshop (April 2024)

- Uncertainty Quantification for LLM-Based Survey Simulations

- Poster: Columbia AI Summit (March 2025)

Honors and Awards

- Second Place, 2023 INFORMS Blue Summit Supplies Data Challenge

2023

- Samuel N. Rubinstein Fellowship, Columbia University

2022

- Academic Performance Scholarship (Class A), CUHK(SZ)

2019-2022

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