Haixiang Lan

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Education

Columbia University	*New York, United States*
Ph.D. in Operations Research	Aug. 2023 - Present
M.S. in Operations Research	Aug. 2023 - Jun. 2024
Advisors: Adam Elmachtoub, Henry Lam	
○ GPA: 4.13/4	
The Chinese University of Hong Kong, Shenzhen (CUHK(SZ))	*Shenzhen, China*
B.S. in Applied Mathematics	Sept. 2019 - May 2023
○ GPA: 3.94/4	
University of Cambridge	*Virtual*
Visiting Student	Jul. 2021 - Aug. 2021

Publications and Preprints

- **Haixiang Lan**, Guillermo Gallego, Zizhuo Wang, Yinyu Ye. LP-based Control for Network Revenue Management under Markovian Demands. In WINE'24: Proceedings of the 20th Conference on Web and Internet Economics, 2024.
- **Haixiang Lan**, Yinjun Wang, Yinyu Ye (α-β). A Tuning-Free Primal-Dual Splitting Algorithm for Large-Scale Semidefinite Programming. INFORMS Optimization Society Conference (IOS) 2024.
- Adam Elmachtoub, Henry Lam, **Haixiang Lan**, Haofeng Zhang (α-β). Dissecting the Impact of Model Misspecfication of Data-Driven Optimization. In AISTATS'25: Proceedings of the 28th International Conference on Artificial Intelligence and Statistics, 2025.
- **Haixiang Lan**, Luofeng Liao, Adam Elmachtoub, Christian Kroer, Henry Lam, Haofeng Zhang. Local Model Misspecification in Data-Driven Optimization. In Preparation.

α-β: Authors are listed in alphabetical order.

Presentations

- A Tuning-Free Primal-Dual Splitting Algorithm for Large-Scale Semidefinite Programming. *INFORMS Optimization Society Conference (March 2024)*.
- LP-based Control for Network Revenue Management under Markovian Demands. *INFORMS Revenue Management and Pricing Section Conference (July 2024), INFORMS Annual Meeting (October 2024), The 20th Conference on Web and Internet Economics (December, 2024)*.
- Dissecting the Impact of Model Misspecfication of Data-Driven Optimization. *The 28th International Conference on Artificial Intelligence and Statistics (May, 2025)*.

Honours and Awards

○ Cornelius A. Boyle Fellowship (Columbia IEOR Department Fellowship).	2023
○ Presidential Award in CUHK(SZ) (highest award for undergraduates)	2023
○ Academic Performance Scholarship (Class A)	2019-2022
○ Outstanding Undergraduate Student Teaching Fellow	2023
○ Half Tuition and Bowen Scholarship	2019-2023
○ Dean's list	2019-2023
○ Contemporary Undergraduate Mathematical Contest in Modeling: National Second Prize	2021
○ Undergraduate Research Award	2021

Teaching Experience

At **Columbia University:** Teaching Assistant
- IEOR 4106, Stochastic Models   Spring 2024
- IEOR 3106, Stochastic Systems and Applications   Fall 2024
- IEOR 4650, Business Analytics   Spring 2025

At **CUHK(SZ):** Undergraduate Student Teaching Fellow
- CHM 1001, General Chemistry   Fall 2020
- MAT 1012, Honours Calculus II   Spring 2021
- MAT 2006, Elementary Real Analysis I   Fall 2021
- MAT 4001, Numerical Analysis   Fall 2022, Spring 2023
- DDA 3005, Numerical Methods   Fall 2022
- MAT 3007, Optimization I   Spring 2023

Skills

Languages: English (Fluent, TOEFL 107, GRE 334), Mandarin (Native)

Computer Languages: Python, R, Matlab, Julia, Gurobi, COPT, LaTeX