

Haixiang Lan

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Education

Columbia University

Ph.D. in Operations Research

M.S. in Operations Research

Advisors: Adam Elmachtoub, Henry Lam

◦ GPA: 4.13/4

The Chinese University of Hong Kong, Shenzhen (CUHK(SZ))

B.S. in Applied Mathematics

◦ GPA: 3.94/4

University of Cambridge

Visiting Student

New York, United States

Aug. 2023 - Present

Aug. 2023 - Jun. 2024

Shenzhen, China

Sept. 2019 - May 2023

Virtual

Jul. 2021 - Aug. 2021

Publications and Preprints

- Guillermo Gallego, **Haixiang Lan**, 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. 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. Dissecting the Impact of Model Misspecification of Data-Driven Optimization. In preparation.

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)*.

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

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, Matlab, Julia, Gurobi, COPT, \LaTeX