

# Haixiang Lan

📍 Mudd 345, 500 W 120th St, New York, NY 10027, United States    ✉ haixiang.lan@columbia.edu

☎ 516-250-0454    🔗 lanhaixiang.github.io    in    🌐

## Education

### Columbia University

*Ph.D. in Operations Research*

*M.S. in Operations Research*

Advisors: Adam Elmachtoub, Henry Lam

◦ GPA: 4.134/4

### 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

- **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. A Tuning-Free Primal-Dual Splitting Algorithm for Large-Scale Semidefinite Programming ( $\alpha - \beta$ ). INFORMS Optimization Society Conference (IOS) 2024.
- Adam Elmachtoub, Henry Lam, **Haixiang Lan**, Haofeng Zhang ( $\alpha - \beta$ ). Dissecting the Impact of Model Misspecification 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.

$\alpha - \beta$ : 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
◦ IEOR 4650, Business Analytics	Spring 2025
At <b>CUHK(SZ)</b> : 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

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

**Computer Languages:** Python, Matlab, Julia, Gurobi, COPT,  $\text{\LaTeX}$