

JIAQI SHI

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EDUCATION

Columbia University

Ph.D. in Operations Research

M.S. in Operations Research

Advisor: Adam Elmachtoub

Relevant Courses: Optimization, Stochastic Models, Data Analytics, Revenue Management and Pricing, Simulation, Transportation Analytics and Logistics, Supply Chain Analytics

Nanjing University

B.S. in Mathematics

University of California, Berkeley

Exchange Student

New York, NY

Aug 2022 - Present

Aug 2020 - May 2022

Nanjing, CN

Sep 2016 - Jun 2020

Berkeley, CA

Jan 2019 - May 2019

RESEARCH

- Omar El Housni, Adam Elmachtoub, Harsh Sheth, [Jiaqi Shi](#). Price and Assortment Optimization under the Multinomial Logit Model with Opaque Products. Draft in preparation.
 - An opaque product is one for which only partial information is disclosed to the buyer at the time of purchase. Integrate opaque products into the MNL model and solve the associated price and assortment optimization problems.
- Adam Elmachtoub, [Jiaqi Shi](#). The Power of Static Pricing for Reusable Resources. Under Review.
 - Reusable resources are used in many real-world applications such as cloud computing, car rental, and sharing economy. Provide universal high-performance guarantees for pricing reusable resources using a simple static policy under various model settings.
- Ginger Y. Ke, [Jiaqi Shi](#), Zizhuo Wang, Lianmin Zhang. Price Optimization for a Multi-stage Choice Model. **Production and Operations Management**, 33(7), 1535-1551, 2024.
 - Propose a multi-stage choice model where a customer's past purchase choices could influence future prices that she can receive. Show that a unique optimal pricing policy exists under mild conditions.

TALKS

The Power of Static Pricing for Reusable Resources

- Oral: INFORMS RMP (Jul 2024), INFORMS Annual Conference (Oct 2023), IEOR PhD Seminar (Sep 2022)
- Poster: DSI Business Analytics (Nov 2023), NYC Operations Day (May 2023), Data Science Day (March 2023)

HONORS AND AWARDS

- Cheung-Kong Innovation Doctoral Fellow 2023-2024
- Finalist, INFORMS 2023 BSS Data Challenge Competition 2023
 - Report: Decoupling Price and Demand Estimation for Profit Optimization
- Columbia IEOR Department Graduate Fellowship 2022

TEACHING EXPERIENCE

Teaching Assistant

- IEOR 4650 Business Analytics Spring 2024
- IEOR 4004 Optimization Models and Methods Fall 2023
- IEOR 4601 Dynamic Pricing and Revenue Management Spring 2023

UNIVERSITY SERVICE

- Inaugural Member of IEOR Ph.D. Council Oct 2022 - Present

SKILLS

- Technical: Python | MATLAB | Gurobi | LaTeX
- Languages: English (Fluent), Mandarin (Native)