

Hansheng Jiang

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CONTACT INFO

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EMPLOYMENT

University of Toronto
Rotman School of Management
Assistant Professor of Operations Management and Statistics 2023–present

EDUCATION

University of California, Berkeley
Ph.D. in Industrial Engineering and Operations Research 2023
 ◊ *Minors* in Statistics and Electrical Engineering
M.S. in Industrial Engineering and Operations Research 2018

University of Science and Technology of China
B.S. in Mathematics 2017

Note: α - β denotes alphabetical order. Underlined are student collaborators.

JOURNAL PAPERS

- [J1] Hansheng Jiang, Junyu Cao, Zuo-Jun Max Shen. **Intertemporal Pricing via Non-parametric Estimation: Integrating Reference Effects and Consumer Heterogeneity.** *Manufacturing & Service Operations Management* 26.1 (2024): 28-46.
 ◊ Finalist, MSOM Data-Driven Research Challenge 2020
 ◊ Media coverage
- [J2] Hansheng Jiang, Adityanand Guntuboyina. **A Nonparametric Maximum Likelihood Approach to Mixture of Regression.**
Under revision for resubmission to *Journal of the American Statistical Association*.
 ◊ Winner, Best Student Paper Award in Theory & Methods by the International Indian Statistical Association (IISA) 2020
- [J3] Hansheng Jiang, Shunan Jiang, Zuo-Jun Max Shen, Chunlin Sun (α - β). **Learning While Repositioning in On-Demand Vehicle Sharing Systems.**
Submitted to *Management Science*.
 ◊ Winner, YinzOR Student Conference Flash Talk Competition 2022
- [J4] Mengzi Amy Guo, Hansheng Jiang, Zuo-Jun Max Shen. **Multi-Product Dynamic Pricing with Reference Effects Under Logit Demand.**
Under review.
- [J5] Lin Zhao, Hansheng Jiang, Mengshi Lu, Zuo-Jun Max Shen, Kemal Güler. **Supply Chain Forecast Sharing Under Asymmetric Forecast Preferences.**
Under major revision at *Production and Operations Management*.

- [J6] Junyu Liu, Hansheng Jiang, Zuo-Jun Max Shen. **Potential Energy Advantage of Quantum Economy.**
 ♦ Media coverage

CONFERENCE PAPERS

- [C1] Zeqi Ye, Hansheng Jiang. **Smoothness-Adaptive Dynamic Pricing with Nonparametric Demand Learning.**
 Accepted to *27th International Conference on Artificial Intelligence and Statistics (AISTATS) 2024*.
 Acceptance rate: 27.58%
- [C2] Hansheng Jiang, Zuo-Jun Max Shen, Junyu Liu. **Quantum Computing Methods for Supply Chain Management.**
Proceedings of 2022 IEEE/ACM 7th Symposium on Edge Computing (SEC) (pp. 400-405). IEEE.

OTHER WORKS

- [O1] Fišar, Miloš, Ben Greiner, Christoph Huber, Elena Katok, Ali Ozkes, and the Management Science Reproducibility Collaboration. **Reproducibility in Management Science.**
Management Science.
 Note: As a member of the Management Science Reproducibility Collaboration
- [O2] Hansheng Jiang, Ruijun Ma, Nganba Meetei. **Counterfactual Forecast of Demand Lifts: A Double Machine Learning Approach.**
Amazon Machine Learning Conference 2021 Causal Inference Workshop.

GRANTS

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|---|-----------|
| NSERC Discovery Grant | 2024–2029 |
| ♦ Role: PI | |
| ♦ Title: Digital Platform Transformation: Bridging Behavioural Insights with Data-Driven Operations | |
| CANSSI Ontario Multidisciplinary Doctoral (Mdoc) Training Program | 2024–2029 |
| ♦ Role: Co-PI (PI: Qiang Sun) | |
| ♦ Funds to support one PhD student (Mdoc trainee) for their five-year study | |
| Dobson Business & Climate Project Research Travel Grant | 2023 |

STUDENT ADVISING

- Kasra Khoshjoo (PhD student in Statistics & Mdoc trainee)
 Starting in Fall 2024
- Zeqi Ye (B.S. '2024, Nankai University)
 Co-authored paper [C1]
 Next position: Ph.D. student at Northwestern IEMS

TEACHING

University of Toronto
Rotman School of Management
Instructor

RSM270 Operations Management (undergraduate core course)
Winter 2024, Fall 2024 (scheduled)

Instructor & Course Developer

RSM3090 Nonparametric Models and Methods for Data-Driven Decision-Making
(PhD course)
Fall 2024 (scheduled)

PROFESSIONAL EXPERIENCE

Amazon

Supply Chain Optimization Technologies (SCOT) Team, New York, NY

Research Scientist II Intern

Summer 2021

Built statistical models and conducted large-scale data analysis to analyze the impacts of delivery speed on demand

Research Scientist I Intern

Summer 2020

Developed a demand forecasting pipeline with fine granularity in time and space

Alibaba

Data Science Decision Support Team of Alibaba Cloud, Sunnyvale, CA

Student Research Intern

Summer 2019

Designed time series forecasting methods for cloud computing demand

University of California, Los Angeles

Department of Statistics

Research Assistant

Summer 2016

Studied generative statistical models for high-dimensional data

HONORS & AWARDS

Second Place, Doctoral Dissertation Award Competition, Conference on SCM in the Post-Pandemic and AI Age 2023

Winner, YinzOR Student Conference Flash Talk Competition 2022

Graduate Division Conference Travel Grant, UC Berkeley 2021 & 2022

Finalist, MSOM Data-Driven Research Challenge 2020

Winner, IISA Best Student Paper Award in Theory & Methods 2020

Berkeley Fellowship 2017–2022

Prestigious multi-year fellowship for incoming PhD students selected campuswide

Cross-disciplinary Scholars in Science and Technology program, UCLA 2016

Hua Luogeng Mathematics Scholarship 2015

National Scholarship in China 2015 & 2016

Top 2 % in the School of Mathematical Sciences

Gold Medal, International Genetically Engineered Machine competition (iGEM) 2015

First Prize, China Mathematical Olympiad (Hubei Province) 2012

Silver Medal, China Girls Mathematical Olympiad 2011 & 2012

International competition for female students from all over China and invited nations

ACADEMIC SERVICE

Journal Refereeing

Annals of Statistics
INFORMS Journal on Computing
Management Science
Manufacturing & Service Operations Management
Transportation Science

Conference Refereeing

MSOM Supply Chain Management SIG 2023, 2024
MSOM Technology, Innovation, and Entrepreneurship SIG 2024
Fairness, Accountability, and Transparency (FAccT) 2023

Award Competition Committee

Coach, Franz Edelman Award 2024 Finalist — McDonald's China
Observer, Franz Edelman Award Competition Committee 2023–2024
Judge, Best Paper Award Competition by Chinese Scholars Association for Management Science and Engineering (CSAMSE) 2023

Session Chair

INFORMS Annual Meeting 2022, 2023

Mentorship

Mentor, INFORMS Mentor Match Program

INTERNAL SERVICE

Admission

Reviewer & Interviewer, OMS PhD Admission 2024
Interviewer, Master of Management Analytics (MMA) Admission 2023

Rotman Commerce Events

SCMG × Kinaxis Keynote Event 2024
Professor Coffee Chat 2023

PRESENTATIONS

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| “Learning While Repositioning in On-Demand Vehicle Sharing Systems” | |
| POMS-HK | 01/2024 |
| School of Management, University of Science and Technology of China | 12/2023 |
| INFORMS Annual Meeting, Phoenix | 10/2023 |
| Data-Driven Urban Tech Workshop Poster Session, Cornell Tech | 05/2023 |
| YinzOR Conference, Carnegie Mellon University | 08/2022 |
| Revenue Management & Pricing Conference | 06/2022 |
| “Intertemporal Pricing in the Presence of Consumer Behaviors via Nonparametric Estimation” | |
| YinzOR Conference Keynote Talk, Carnegie Mellon University | 08/2023 |

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| INFORMS Annual Meeting, Indianapolis | 10/2022 |
| INFORMS Annual Meeting, Anaheim | 10/2021 |
| Revenue Management & Pricing Conference | 06/2021 |
| MSOM Data-Driven Challenge Finalist Presentation | 11/2020 |
| INFORMS Annual Meeting, Online | 10/2020 |
| INFORMS Annual Meeting, Seattle | 11/2019 |
| "A Nonparametric Maximum Likelihood Approach to Mixture of Regression" | |
| IISA Student Paper Award Presentation | 07/2020 |
| Amazon SCOT Visiting BAIR Workshop, UC Berkeley | 01/2020 |
| "Quantum Computing and Operations Management" | |
| Modeling and Optimization: Theory and Applications (MOPTA), Lehigh | 08/2023 |
| IEEE/ACM 7th Symposium on Edge Computing, Seattle | 12/2022 |

MISCELLANEOUS **Computing:** Python, R, SQL, \LaTeX , HTML, Gurobi, AMPL
Recreation: Culinary enthusiast, progressing tennis aficionado, and delighted keeper of a Ragdoll cat