

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

Affiliated Faculty at School of Cities, University of Toronto 2024–present

EDUCATION

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

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.**
Under 2nd-round review at *Management Science* after R&R.
 ◊ 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.**
Major revision at *Manufacturing & Service Operations Management*.
- [J5] Lin Zhao, Hansheng Jiang, Mengshi Lu, Zuo-Jun Max Shen, Kemal Güler. **Supply Chain Forecast Sharing Under Asymmetric Forecast Preferences.**
Major revision at *Production and Operations Management*.

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

CONFERENCE PAPERS

[C1] Zeqi Ye, Hansheng Jiang. **Smoothness-Adaptive Dynamic Pricing with Nonparametric Demand Learning.**
Proceedings of The 27th International Conference on Artificial Intelligence and Statistics (AISTATS), PMLR 238:1675-1683, 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 70.3 (2024): 1343-1356.
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

| | |
|---|-----------|
| NSERC Discovery Grant | 2024–2029 |
| ◊ Role: Sole 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 SUPERVISION

Kasra Khoshjoo (PhD student in Statistics & Mdoc trainee)
Starting in Fall 2024

Zeqi Ye (B.S. '2024, Nankai University)
Co-author of paper [C1]
Next stop: PhD student at Northwestern IEMS

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| TEACHING | University of Toronto Rotman School of Management <i>Instructor</i> RSM270 Operations Management (undergraduate core course) Winter 2024, Fall 2024 <i>Instructor & Course Developer</i> RSM3090 Nonparametric Models and Methods for Data-Driven Decision-Making (PhD course) Fall 2024 | |
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| PROFESSIONAL EXPERIENCE | Amazon Supply Chain Optimization Technologies (SCOT) Team, New York, NY <i>Research Scientist II</i> <i>Research Scientist I</i> | Summer 2021 Summer 2020 |
| | Alibaba Data Science Decision Support Team of Alibaba Cloud, Sunnyvale, CA <i>Student Researcher</i> | Summer 2019 |
| | University of California, Los Angeles Department of Statistics <i>Research Assistant</i> | Summer 2016 |
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| 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 Prestigious multi-year fellowship for incoming PhD students selected campuswide | 2017–2022 |
| | Cross-disciplinary Scholars in Science and Technology (CSST) program, UCLA | 2016 |
| | Hua Luogeng Mathematics Scholarship | 2015 |
| | National Scholarship in China Top 2 % in the School of Mathematical Sciences | 2015 & 2016 |
| | Gold Medal, International Genetically Engineered Machine competition (iGEM) | 2015 |
| | First Prize, China Mathematical Olympiad (Hubei Province) | 2012 |
| | Silver Medal, China Girls Mathematical Olympiad International competition for female students from all over China and invited nations | 2011 & 2012 |
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| ACADEMIC SERVICE | Journal Refereeing <i>Annals of Statistics</i> | |
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INFORMS Journal on Computing
Operations Research
Management Science
Manufacturing & Service Operations Management
Transportation Science

Conference Refereeing

Supply Chain Management SIG of MSOM
 Technology, Innovation, and Entrepreneurship SIG of MSOM
 Conference on Neural Information Processing Systems (NeurIPS)
 Fairness, Accountability, and Transparency (FAccT)

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, 2024

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 Conference, HKUST | | 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 (RMP) Conference, Chicago Booth (Online) | | 06/2022 |
| “Intertemporal Pricing in the Presence of Consumer Behaviors via Nonparametric Estimation” | | |
| YinzOR Conference (Long Talk), Carnegie Mellon University | | 08/2023 |
| INFORMS Annual Meeting, Indianapolis | | 10/2022 |
| INFORMS Annual Meeting, Anaheim | | 10/2021 |

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| Revenue Management & Pricing (RMP) Conference , JHU Carey (Online) | 06/2021 |
| MSOM Data-Driven Challenge Finalist Presentation | 11/2020 |
| INFORMS Annual Meeting, Online | 10/2020 |
| INFORMS Annual Meeting, Seattle | 11/2019 |
| “Smoothness-Adaptive Dynamic Pricing with Nonparametric Demand Learning” | |
| International Symposium on Mathematical Programming (ISMP), Montreal | 07/2024 |
| Revenue Management & Pricing (RMP) Conference, UCLA Anderson | 07/2024 |
| “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” | |
| MSOM Conference, University of Minnesota | 06/2024 |
| 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