

Hansheng Jiang

Last updated: January 2024

Contact Info

Email: hansheng.jiang@rotman.utoronto.ca
Website: hanshengjiang.github.io
Address: 105 St George St, Toronto, ON M5S 3E6

Employment

Rotman School of Management, University of Toronto
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

Journal Papers

^α denotes alphabetical order. Underlined are student or postdoc collaborators.

[J1] Hansheng Jiang, Junyu Cao, Zuo-Jun Max Shen. **Intertemporal Pricing via Non-parametric Estimation: Integrating Reference Effects and Consumer Heterogeneity.** Forthcoming at *Manufacturing & Service Operations Management* 2023+.
◊ 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^α, Shunan Jiang^α, Zuo-Jun Max Shen^α, Chunlin Sun^α. **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.**

[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.**

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.**

IEEE/ACM 7th Symposium on Edge Computing (SEC) 2022.

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.

Teaching

University of Toronto

Instructor

RSM 270 Operations Management

Winter 2024

University of California, Berkeley

Instructor

STAT 153: Introduction to Time Series

Spring 2023

Graduate Student Instructor

UGBA 141: Production & Operations Management

Spring 2022

IEOR 173: Introduction to Stochastic Processes

Spring 2020

IEOR 262A: Mathematical Programming

Fall 2019

Grader

UGBA 106: Marketing

Fall 2020

IEOR 263A: Applied Stochastic Processes

Fall 2018

University of Science and Technology of China

Undergraduate Student Instructor

MATH 100201: Multivariate Real Analysis

Spring 2016

Student Supervision

I have had the pleasure of working with:

◇ Zeqi Ye (Undergraduate in Statistics at Nankai University)

Co-authored paper [C1]

Academic Service

Journal Refereeing

Management Science

Manufacturing & Service Operations Management

Annals of Statistics

Transportation Science

Conference Refereeing

MSOM Supply Chain Management SIG Conference

Fairness, Accountability, and Transparency (FAccT)

Award Competition Committee

Observer, Franz Edelman Award Competition Committee 2024

Member of Coaching Team for Franz Edelman Award Finalists 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

Interviewer, Master of Management Analytics (MMA) Admission 2023

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

Dobson Business & Climate Project Research Grant \$2000

2023

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	

Presentations

“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
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

Software

IPRE: Intertemporal pricing under reference effects [Code]

NPMLE: Nonparametric estimation of mixture of regression [Code]

Miscellaneous

Computing: Python, R, SQL, \LaTeX , HTML, Gurobi, AMPL

Recreation: Culinary enthusiast, progressing tennis aficionado, and delighted keeper of a Ragdoll cat