

# Hansheng Jiang

## CONTACT

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## 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

<sup>α</sup> denotes alphabetical order. Underlined are students supervised.

[J1] Hansheng Jiang, Junyu Cao, Zuo-Jun Max Shen. [Intertemporal Pricing via Nonparametric 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<sup>α</sup>, Shunan Jiang<sup>α</sup>, Zuo-Jun Max Shen<sup>α</sup>, Chunlin Sun<sup>α</sup>. [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](#).

Revising.

[J5] Lin Zhao, Hansheng Jiang, Mengshi Lu, Zuo-Jun Max Shen, Kemal Guler. [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](#).

Under review.

- ◊ Media coverage

## CONFERENCE PAPERS

[C1] Zeqi Ye, Hansheng Jiang. [Smoothness-Adaptive Dynamic Pricing with Nonparametric Demand Learning](#).  
Under review.

[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) Quantum Computing Track*.

## OTHER PUBLICATIONS

[O1] Fišar, Miloš, Ben Greiner, Christoph Huber, Elena Katok, Ali Ozkes, and the Management Science Reproducibility Collaboration. [Reproducibility in Management Science](#).  
*Working Paper*.

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	
<i>Instructor</i>	
RSM 270 Operations Management	Winter 2024
University of California, Berkeley	
<i>Instructor</i>	
STAT 153: Introduction to Time Series	Spring 2023
<i>Graduate Student Instructor</i>	
UGBA 141: Production & Operations Management	Spring 2022
IEOR 173: Introduction to Stochastic Processes	Spring 2020
IEOR 262A: Mathematical Programming	Fall 2019
<i>Grader</i>	
UGBA 106: Marketing	Fall 2020
IEOR 263A: Applied Stochastic Processes	Fall 2018
University of Science and Technology of China	
<i>Undergraduate Student Instructor</i>	
MATH 100201: Multivariate Real Analysis	Spring 2016

## PROFESSIONAL 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

Judge, Best Paper Award Competition by Chinese Scholars Association for Management Science and Engineering (CSAMSE) 2023

### Session Chair

INFORMS Annual Meeting 2022, 2023

### Membership

Women in OR/MS

Mentor in INFORMS Mentor Match Program

### STUDENT SUPERVISION

I have had the pleasure of working with:

- ◊ Zeqi Ye (Currently undergraduate in Math at Nankai University)
- Co-authored paper [C1]

### 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	

PRESENTATIONS	<i>Learning While Repositioning in On-Demand Vehicle Sharing Systems</i>	
	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
	<i>Intertemporal Pricing in the Presence of Consumer Behaviors via Nonparametric Estimation</i>	
	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
	<i>A Nonparametric Maximum Likelihood Approach to Mixture of Regression</i>	
	IISA Student Paper Award Presentation	07/2020
	Amazon SCOT Visiting BAIR Workshop, UC Berkeley	01/2020
	<i>Quantum Computing and Operations Management</i>	
	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 [ <a href="#">Code</a> ]	
	NPMLE: Nonparametric estimation of mixture of regression [ <a href="#">Code</a> ]	
MISCELLANEOUS	<b>Computing:</b> Python, R, SQL, L <sup>A</sup> T <sub>E</sub> X, HTML, Gurobi, AMPL	
	<b>Recreation:</b> Culinary enthusiast, progressing tennis aficionado, and delighted keeper of a Ragdoll cat	