Hansheng Jiang

CONTACT	Email: hansheng_jiang@berkeley.edu Website: hanshengjiang.github.io

ACADEMIC APPOINTMENT

Rotman School of Management, University of Toronto
Assistant Professor   Starting at 07/2023

RESEARCH INTERESTS

I am broadly interested in data-driven decision-making, data analytics, stochastic modeling, nonparametric statistics, machine learning, with applications in retailing, supply chains, transportation, etc.

EDUCATION

University of California, Berkeley
Ph.D. in Industrial Engineering & Operations Research   2023 (Expected)
- ○ *Minors* in Statistics and Electrical Engineering
- ○ Advisors: Zuo-Jun Max Shen, Aditya Guntuboyina

University of Science and Technology of China
B.S. in Mathematics   2017
- ○ GPA Top 2% (Outstanding Graduate Award)

PROFESSIONAL EXPERIENCE

Amazon
Supply Chain Optimization Technologies (SCOT) Team
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 Group USA
Data Science Decision Support Team of Alibaba Cloud
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

TEACHING

At UC 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

At USTC

Undergraduate Student Instructor

	MATH 100201: Multivariate Real Analysis	Spring 2016

<table>
<tr><td rowspan="20">HONORS &
AWARDS</td><td>Winner, YinzOR Student Conference Flash Talk Competition</td><td>2022</td></tr>
<tr><td>Graduate Division Conference Travel Grant, UC Berkeley</td><td>2021 & 2022</td></tr>
<tr><td>Finalist, MSOM Data-Driven Research Challenge</td><td>2020</td></tr>
<tr><td>Winner, IISA Best Student Paper Award in Theory & Methods</td><td>2020</td></tr>
<tr><td>Berkeley Fellowship</td><td>2017 – 2022</td></tr>
<tr><td colspan="2">Prestigious multi-year fellowship by for incoming PhD students selected campuswide</td></tr>
<tr><td>UCLA-CSST Fellowship</td><td>2016</td></tr>
<tr><td colspan="2">Cross-disciplinary Scholars in Science and Technology program</td></tr>
<tr><td>Hua Luogeng Mathematics Scholarship</td><td>2015</td></tr>
<tr><td>National Scholarship in China (top 2% of the department)</td><td>2015 & 2016</td></tr>
<tr><td>iGEM Gold Medal Team</td><td>2015</td></tr>
<tr><td colspan="2">International Genetically Engineered Machine competition</td></tr>
<tr><td>First Prize, China Mathematical Olympiad (provincial)</td><td>2012</td></tr>
<tr><td>Silver Medal, China Girls Mathematical Olympiad</td><td>2011 & 2012</td></tr>
<tr><td colspan="2">International competition for female students from all over China and some invited nations</td></tr>
</table>

JOURNAL
PAPERS

* stands for the alphabetical order or equal contribution.

[J1] Intertemporal Pricing via Nonparametric Estimation: Integrating Reference Effects and Consumer Heterogeneity. Hansheng Jiang, Junyu Cao, Zuo-Jun Max Shen.
Forthcoming at *Manufacturing & Service Operations Management 2023+*.
   ⋄ Finalist, MSOM Data-Driven Research Challenge 2020

[J2] A Nonparametric Maximum Likelihood Approach to Mixture of Regression.
Hansheng Jiang, Adityanand Guntuboyina.
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] Learning While Repositioning in On-Demand Vehicle Sharing Systems.
Hansheng Jiang*, Shunan Jiang*, Zuo-Jun Max Shen.

Under review at *Management Science.*
  ◇ Winner, YinzOR Student Conference Flash Talk Competition 2022

[J4] Multi-Product Dynamic Pricing with Reference Effects Under Logit Demand. Mengzi Amy Guo, Hansheng Jiang, Zuo-Jun Max Shen.
Reject & Resubmit at *Operations Research.*

[J5] Supply Chain Forecast Sharing Under Asymmetric Forecast Preferences. Lin Zhao*, Hansheng Jiang*, Mengshi Lu, Zuo-Jun Max Shen, Kemal Guler.
Under major revision at *Production and Operations Management.*

CONFERENCE PAPERS	[C1] Quantum Computing Methods for Supply Chain Management. Hansheng Jiang, Zuo-Jun Max Shen, Junyu Liu. *Proceedings of 2022 IEEE/ACM 7th Symposium on Edge Computing (SEC) Workshop on Quantum Computing.*

PAPER REFEREEING	**Journals**
	    Management Science, Annals of Statistics, Management Science Reproducibility Project
	
	Conferences
	    MSOM Special Interest Groups (SIG) Conference (2023), Fairness, Accountability, and Transparency (FAccT) (2023)

OTHER ACADEMIC SERVICE	INFORMS Session Chair	
	Innovations in Decision-Making Under Uncertainty	2023
	Learning and Optimization in Pricing	2022
	Member, INFORMS Mentorship Program	Since 2018

UNIVERSITY SERVICE	Volunteer, IEOR new student orientation	2019, 2021 & 2022
	Panelist, IEOR information session for prospective students	2021
	Signatory committee member, IEOR graduate student organization	2020

TALKS	**Intertemporal Pricing via Nonparametric Estimation**	
	INFORMS Annual Meeting, Indianapolis, Indiana	10/2022
	INFORMS Annual Meeting, Anaheim, CA	10/2021
	INFORMS Revenue Management & Pricing Conference	06/2021
	MSOM Data-Driven Challenge Finalist Presentation	11/2020
	INFORMS Annual Meeting, Online	10/2020
	INFORMS Annual Meeting, Seattle, WA	11/2019

A Nonparametric Maximum Likelihood Approach to Mixture of Regression

| | IISA Student Paper Award Presentation | 07/2020 |
| | Amazon SCOT Visiting BAIR Workshop, Berkeley, CA | 01/2020 |

Learning While Repositioning in On-Demand Vehicle Sharing Systems

| | YinzOR Student Conference, Pittsburgh, PA | 08/2022 |
| | INFORMS Revenue Management & Pricing Conference | 06/2022 |

CODE   Estimation and optimization under consumer heterogeneity [Code]

Nonparametric estimation of mixture of regression [Code]

SKILLS   Python, R, SQL, LaTeX, HTML, Gurobi, AMPL

PERSONAL INFO   Pronouns: she/her

Birth year: 1996

Recreational activities: tennis, hiking, cat-sitting, cooking