Hansheng Jiang

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

ACADEMIC Rotman School of Management, University of Toronto

APPOINTMENT Assistant Professor Starting at 07/2023

RESEARCH 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

o 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 Amazon

EXPERIENCE 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

Summer 2019

• 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

• 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			
	11501(2001). Tipplied Stochastic Trocesses	1411 2010			
	At USTC				
	Undergraduate Student Instructor				
	MATH 100201: Multivariate Real Analysis	Spring 2016			
Honors &	Winner, YinzOR Student Conference Flash Talk Competition	2022			
Awards	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				
	Berkeley Fellowship 2017 – 2022 Prestigious multi-year fellowship by for incoming PhD students selected campuswide				
	UCLA-CSST Fellowship	2016			
	Cross-disciplinary Scholars in Science and Technology program				
	Hua Luogeng Mathematics Scholarship	2015			
	National Scholarship in China (top 2% of the department)	2015 & 2016			
	iGEM Gold Medal Team	2015			
	International Genetically Engineered Machine competition				
	First Prize, China Mathematical Olympiad (provincial)	2012			
	Silver Medal, China Girls Mathematical Olympiad International competition for female students from all over China and s	2011 & 2012 some invited na-			
	tions				
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Journal Papers

[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.

^{*} stands for the alphabetical order or equal contribution.

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

Journals

Refereeing

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

MSOM Cluster: Advances in Data-Driven Operations 2023 RMP Cluster: 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

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INFORMS An	nual Meeti	ing, Indianapolis,	Indiana	10/2022
INFORMS An	nual Meeti	ing, Anaheim, CA	-	10/2021
INFORMS Re	venue Man	agement & Pricin	g Conference	06/2021
MSOM Data-I	Oriven Cha	llenge Finalist Pr	esentation	11/2020
INFORMS An	nual Meeti	ing, Online		10/2020
INFORMS An	nual Meeti	ing, 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 Pronouns: she/her INFO Birth year: 1996

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