Hansheng Jiang

CONTACT
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EDUCATION

University of California, Berkeley
Ph.D. in Industrial Engineering & Operations Research　　　　Aug 2017 – Present
Minors in Statistics and Electrical Engineering
Advisors: Zuo-Jun Max Shen and Aditya Guntuboyina (Department of Statistics)

University of Science and Technology of China
B.S. in Mathematics　　　　　　　　　　　　　　　　　　Aug 2013 – May 2017

RESEARCH
INTERESTS

Sequential and data-driven decision-making, nonparametric statistics, behavioral operations, applications in retailing, supply chains, sharing economy.

PAPERS

1. Hansheng Jiang, Junyu Cao, Zuo-Jun Max Shen. **Intertemporal Pricing via Nonparametric Estimation: Integrating Reference Effects and Consumer Heterogeneity.** *Manufacturing & Service Operations Management (Articles in Advance) 2022.* [Link]

   ♚ Finalist, MSOM Data-Driven Research Challenge 2020

2. Hansheng Jiang, Adityanand Guntuboyina. **A Nonparametric Maximum Likelihood Approach to Mixture of Regression.** Under revision for resubmission to *Journal of the American Statistical Association.* [Link]

   ♚ Winner, Best Student Paper Award in Theory & Methods section by International Indian Statistical Association (IISA) 2020

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

4. Hansheng Jiang*, Shunan Jiang*, Zuo-Jun Max Shen. **Learning While Repositioning in On-Demand Vehicle Sharing Systems.** In preparation for submission to *Management Science.* [Link]

   ♚ Winner, YinzOR Student Conference Flash Talk Competition 2022

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

6. Hansheng Jiang, Zuo-Jun Max Shen, Junyu Liu. **Quantum Computing Methods for Supply Chain Management.** Preliminary version submitted to *ACM/IEEE Workshop on Quantum Computing.* [Link]

   (* indicates equal contribution)

TEACHING EXPERIENCE	*Instructor*	
	STAT 153 (Elective): Introduction to Time Series	Spring 2023 (Planned)
	Graduate Student Instructor	
	UGBA 141 (Elective): Production & Operations Management	Spring 2022
	IEOR 173 (Core): Introduction to Stochastic Processes	Spring 2020
	IEOR 262A (PhD Core): Mathematical Programming	Fall 2019
	Grader	
	UGBA 106 (Core): Marketing	Fall 2020
	IEOR 263A (PhD Core): Applied Stochastic Processes	Fall 2018
	Undergraduate Student Instructor	
	MATH100201 (Core): Multivariate Real Analysis	Spring 2016

INDUSTRY EXPERIENCE

Amazon

Supply Chain Optimization Technologies (SCOT) team, New York City, NY

Research Scientist II Intern   May 2021 – Aug 2021

- I built statistical models and conducted data analysis to analyze the impacts of delivery speed on demand. I provided counterfactual prediction that supported the inventory planning and control team in selecting the most desired products into the faster delivery program.
- I coauthored a technical report, and the report was accepted to the causal inference workshop of Amazon's annual machine learning conference.

Research Scientist I Intern   May 2020 – Aug 2020

- I worked as part of the demand forecasting team to provide reliable demand prediction to guide downstream decision-making amid the challenges of oscillating demand and unstable supply during COVID-19.
- I developed a demand forecasting methodology with features of fine granularity in time and space. My prototyped model was continued by the team for production in the whole US marketplace after my internship.

Alibaba Group

Data Science Decision Support team of Alibaba Cloud, Sunnyvale, CA

Student Research Intern   May 2019 – Aug 2019

- I studied and proposed time series forecasting methods for cloud computing demand.

SELECTED HONORS & AWARDS	
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
Outstanding Graduate Award (provincial)	2017
UCLA-CSST Fellowship	2016
National Scholarship (top 2% of the department)	2015 & 2016
First Prize, National College Student Mathematics Contest	2014
First Prize, China Mathematical Olympiad (provincial)	2012
Silver Medal, China Girls Mathematical Olympiad	2011 & 2012

OTHER EXPERIENCE	**University of California, Los Angeles**	
	Department of Statistics	
	Research Assistant	June 2016 – Sept 2016
	Mentors: Prof. Ying Nian Wu and Dr. Jianwen Xie	

TALKS	Intertemporal Pricing via Nonparametric Estimation: Integrating Reference Effects and Consumer Heterogeneity	
	INFORMS Annual Meeting, Anaheim, CA	Oct 2021
	INFORMS Revenue Management & Pricing Conference	June 2021
	MSOM Data-Driven Challenge Finalist Presentation	Nov 2020
	INFORMS Annual Meeting, Online	Oct 2020
	INFORMS Annual Meeting, Seattle, WA	Nov 2019
	A Nonparametric Maximum Likelihood Approach to Mixture of Regression	
	IISA Student Paper Award Presentation	July 2020
	Amazon SCOT Visiting BAIR Workshop, Berkeley, CA	Jan 2020
	Learning While Repositioning in On-Demand Vehicle Sharing Systems	
	YinzOR Student Conference, Pittsburgh, PA	Aug 2022
	INFORMS Revenue Management & Pricing Conference	June 2022

SERVICES & ACTIVITIES	Session Chair of "Learning and Optimization in Pricing" at INFORMS 2022	
	Departmental 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
	Reviewer for *Annals of Statistics*	

SKILLS	Computing: Python, R, MATLAB, Gurobi, AMPL, SQL, experience with large-scale real-data processing and analyzing
	Languages: English (proficient), Chinese (native)

REFERENCES	Zuo-Jun Max Shen
	Department of Industrial Engineering and Operations Research
	University of California, Berkeley
	maxshen@berkeley.edu
	Adityanand Guntuboyina
	Department of Statistics
	University of California, Berkeley
	aditya@stat.berkeley.edu
	Junyu Cao
	Department of Information, Risk, and Operations Management
	McCombs School of Business
	The University of Texas at Austin
	junyu.cao@mccombs.utexas.edu

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