

Hansheng Jiang

PERSONAL	Pronouns: she/her Email: hansheng_jiang@berkeley.edu	Phone: +1 510-833-8004 Homepage: hanshengjiang.github.io
EDUCATION	University of California, Berkeley Ph.D. in Industrial Engineering & Operations Research <i>Minors</i> in Statistics and Electrical Engineering Advisor: Prof. Zuo-Jun Max Shen Co-advisor: Prof. Aditya Guntuboyina (Department of Statistics) University of Science and Technology of China B.S. in Mathematics	2023 (Expected) 2017
RESEARCH INTERESTS	Data-driven decision-making, data analytics, stochastic modeling, nonparametric statistics, machine learning, applications in retailing, supply chains, transportation, etc.	
PAPERS	<ol style="list-style-type: none">Hansheng Jiang, Junyu Cao, Zuo-Jun Max Shen. Intertemporal Pricing via Nonparametric Estimation: Integrating Reference Effects and Consumer Heterogeneity. <i>Manufacturing & Service Operations Management (Articles in Advance)</i> 2022.  Finalist, MSOM Data-Driven Research Challenge 2020Hansheng Jiang, Adityanand Guntuboyina. A Nonparametric Maximum Likelihood Approach to Mixture of Regression. Under revision for resubmission to <i>Journal of the American Statistical Association</i>.  Winner, Best Student Paper Award in Theory & Methods by the International Indian Statistical Association (IISA) 2020Hansheng Jiang*, Shunan Jiang*, Zuo-Jun Max Shen. Learning While Repositioning in On-Demand Vehicle Sharing Systems. Under review at <i>Management Science</i>.  Winner, YinzOR Student Conference Flash Talk Competition 2022Mengzi Amy Guo, Hansheng Jiang, Zuo-Jun Max Shen. Multi-Product Dynamic Pricing with Reference Effects Under Logit Demand. Under review at <i>Operations Research</i>.Lin Zhao*, Hansheng Jiang*, Mengshi Lu, Zuo-Jun Max Shen, Kemal Guler. Supply Chain Forecast Sharing Under Asymmetric Forecast Preferences. Under major revision at <i>Production and Operations Management</i>.Hansheng Jiang, Zuo-Jun Max Shen, Junyu Liu. Quantum Computing Methods for Supply Chain Management. <i>Proceedings of 2022 IEEE/ACM 7th Symposium on Edge Computing (SEC) Workshop on Quantum Computing</i>. <p>* indicates equal contribution.</p>	
CODE & SOFTWARE	Reference Effects: Estimation and optimization under consumer heterogeneity. [Code] NPMLE: Nonparametric estimation of mixture of regression. [Code]	

TEACHING EXPERIENCE	<i>Instructor</i>	
	STAT 153: Introduction to Time Series	Spring 2023
	Undergraduate statistics elective course taught by me	
	<i>Graduate Student Instructor</i>	
	UGBA 141: Production & Operations Management	Spring 2022
	Undergraduate business elective course taught by Prof. Park Sinchaisri	
	IEOR 173: Introduction to Stochastic Processes	Spring 2020
	Undergraduate operations research core course taught by Prof. Zeyu Zheng	
	IEOR 262A: Mathematical Programming	Fall 2019
	PhD operations research core course taught by Prof. Alper Atamtürk	
	<i>Grader</i>	
	UGBA 106: Marketing	Fall 2020
	Undergraduate business core course taught by Prof. Ming Hsu	
	IEOR 263A: Applied Stochastic Processes	Fall 2018
	PhD operations research core course taught by Prof. Rhonda Righter	
	<i>Undergraduate Student Instructor</i>	
	MATH 100201: Multivariate Real Analysis	Spring 2016
	Undergraduate mathematics core course taught by Prof. Jiansong Deng	
INDUSTRY EXPERIENCE	Amazon	
	Supply Chain Optimization Technologies (SCOT) Team, New York City, NY	
	Manager: Dr. Abhishek Gupta	
	<i>Research Scientist II Intern</i>	May 2021 – Aug 2021
	<ul style="list-style-type: none"> ◦ I built statistical models and conducted data analysis to analyze the impacts of delivery speed on demand. I provided counterfactual predictions that helped the inventory planning and control team select the most desired products for the faster delivery program. ◦ I coauthored a technical report, and the report was accepted to the causal inference workshop in Amazon's internal annual machine learning conference. 	
	<i>Research Scientist I Intern</i>	May 2020 – Aug 2020
	<ul style="list-style-type: none"> ◦ I worked as part of the demand forecasting team to provide reliable demand predictions to guide downstream decision-making amid the challenges of oscillating demand and unstable supply during COVID-19. ◦ I developed a demand forecasting methodology with 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	
	Manager: Dr. Wanyi Zhu	
OTHER EXPERIENCE	<i>Student Research Intern</i>	May 2019 – Aug 2019
	<ul style="list-style-type: none"> ◦ I studied and proposed time series forecasting methods for cloud computing demand. 	
	University of California, Los Angeles	
	Department of Statistics	
	Mentor: Prof. Ying Nian Wu	
	<i>Research Assistant</i>	June 2016 – Sept 2016

SELECTED HONORS & AWARDS	Winner, YinzOR Student Conference Flash Talk Competition	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
	Hua Luogeng Mathematics Scholarship	2015
	National Scholarship in China (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
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 <i>Management Science</i> , <i>Annals of Statistics</i>	
TECHNICAL SKILLS	Python, R, SQL, \LaTeX , HTML, Gurobi, AMPL, experience with large-scale real-data processing and analyzing	
REFERENCES	Zuo-Jun Max Shen (Professor)	
	University of California, Berkeley	
	maxshen@berkeley.edu	
	Adityanand Guntuboyina (Associate Professor)	
	University of California, Berkeley	
	aditya@stat.berkeley.edu	
	Junyu Cao (Assistant Professor)	
	University of Texas at Austin	
	Park Sinchaisri (Assistant Professor)	
	University of California, Berkeley	

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