Hansheng Jiang

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EDUCATION

University of California, Berkeley
Ph.D. in Industrial Engineering & Operations Research   2017 – 2023 (Expected)
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   2013 – 2017

RESEARCH INTERESTS

Sequential and data-driven decision-making, behavioral operations, nonparametric statistics, 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 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.* Manuscript available upon request. [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	
	MATH 100201 (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 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.

Research Scientist I Intern — May 2020 – Aug 2020

- 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

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 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

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*

TECHNICAL SKILLS

Python, R, SQL, LaTeX, HTML, Gurobi, AMPL, experience with large-scale real-data processing and analyzing

REFERENCES

Zuo-Jun Max Shen
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University of Texas at Austin
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