Hansheng Jiang

Personal

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Education

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

- GPA Top 2 %

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.

Professional Experience

Amazon
Supply Chain Optimization Technologies (SCOT) Team — New York City
Manager: Dr. Abhishek Gupta
Research Scientist II Intern — May 2021 – Aug 2021

- Built statistical models and conducted large-scale data analysis to analyze the impacts of delivery speed on demand

Research Scientist I Intern — May 2020 – Aug 2020

- Developed a demand forecasting methodology with fine granularity in time and space

Alibaba Group USA
Data Science Decision Support Team of Alibaba Cloud — Sunnyvale
Manager: Dr. Wanyi Zhu
Student Research Intern — May 2019 – Aug 2019

- Designed time series forecasting methods for cloud computing demand

University of California, Los Angeles — Los Angeles
Department of Statistics
Mentor: Prof. Ying Nian Wu
Research Assistant — June 2016 – Sept 2016

- Studied generative statistical models for high-dimensional data

Teaching Experience

Instructor

STAT 153: Introduction to Time Series — Spring 2023
Undergraduate statistics elective course taught by me

Graduate Student Instructor

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

Grader

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

Undergraduate Student Instructor

MATH 100201: Multivariate Real Analysis Spring 2016
Undergraduate mathematics core course taught by Prof. Jiansong Deng

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
Hua Luogeng Mathematics Scholarship	2015
National Scholarship in China (top 2% of the department)	2015 & 2016
Gold Medal, International Genetically Engineered Machine Competition	2015
First Prize, China Mathematical Olympiad (provincial)	2012
Silver Medal, China Girls Mathematical Olympiad	2011 & 2012

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.*

   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*.

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

3. Hansheng Jiang*, Shunan Jiang*, Zuo-Jun Max Shen. Learning While Repositioning in On-Demand Vehicle Sharing Systems. Under review at *Management Science*.

   Winner, YinzOR Student Conference Flash Talk Competition 2022

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

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

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

* indicates equal contribution.

Services & Activities

Session Chair of "Learning and Optimization in Pricing" at INFORMS 2022

Referee for *Management Science* (2), *Management Science Reproducibility Project* (1), *Annals of Statistics* (1)

Member of Women in ORMS Mentorship Program

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

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

Code & Software

Estimation and optimization under consumer heterogeneity [Code]
Nonparametric estimation of mixture of regression [Code]

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
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Adityanand Guntuboyina (Associate Professor)
University of California, Berkeley
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Junyu Cao (Assistant Professor)
University of Texas at Austin
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Park Sinchaisri (Assistant Professor)
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Last updated on February 24, 2023