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
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Department of Statistics
University of California, Berkeley
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Junyu Cao
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McCombs School of Business
The University of Texas at Austin
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