Hansheng Jiang

CONTACT

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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.

EDUCATION

University of California, Berkeley
Ph.D. in Industrial Engineering & Operations Research   2023
- *Minors* in Statistics and Electrical Engineering
- Advisors: Zuo-Jun Max Shen, Aditya Guntuboyina

University of Science and Technology of China
B.S. in Mathematics   2017
- GPA Top 2% (Outstanding Graduate Award)

PROFESSIONAL EXPERIENCE

Amazon
Supply Chain Optimization Technologies (SCOT) Team
Research Scientist II Intern   Summer 2021
- Built statistical models and conducted large-scale data analysis to analyze the impacts of delivery speed on demand
Research Scientist I Intern   Summer 2020
- Developed a demand forecasting pipeline with fine granularity in time and space

Alibaba Group USA
Data Science Decision Support Team of Alibaba Cloud
Student Research Intern   Summer 2019
- Designed time series forecasting methods for cloud computing demand

University of California, Los Angeles
Department of Statistics
Research Assistant   Summer 2016
- Studied generative statistical models for high-dimensional data

TEACHING

At UC Berkeley
Instructor
    STAT 153: Introduction to Time Series   Spring 2023

Graduate Student Instructor
    UGBA 141: Production & Operations Management   Spring 2022
    IEOR 173: Introduction to Stochastic Processes   Spring 2020
    IEOR 262A: Mathematical Programming   Fall 2019

Grader
    UGBA 106: Marketing   Fall 2020
    IEOR 263A: Applied Stochastic Processes   Fall 2018

At USTC
Undergraduate Student Instructor
MATH 100201: Multivariate Real Analysis   Spring 2016

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
Prestigious multi-year fellowship for incoming PhD students selected campuswide	
UCLA-CSST Fellowship	2016
Cross-disciplinary Scholars in Science and Technology program	
Hua Luogeng Mathematics Scholarship	2015
National Scholarship in China (top 2% of the department)	2015 & 2016
iGEM Gold Medal Team	2015
International Genetically Engineered Machine competition	
First Prize, China Mathematical Olympiad (provincial)	2012
Silver Medal, China Girls Mathematical Olympiad	2011 & 2012
International competition for female students from all over China and invited nations	

JOURNAL PAPERS

† stands for the alphabetical order or equal contribution.

[1] Hansheng Jiang, Junyu Cao, Zuo-Jun Max Shen. Intertemporal Pricing via Nonparametric Estimation: Integrating Reference Effects and Consumer Heterogeneity.
Forthcoming at **Manufacturing & Service Operations Management 2023+**.
   ⋄ 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.
Submitted to 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.
Submitted to **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**.

CONFERENCE PAPERS	[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).

PAPER REFEREEING

Journal Refereeing
Management Science
Annals of Statistics
Management Science Reproducibility Project

Conference Refereeing
MSOM Supply Chain Management SIG Meeting 2023
Fairness, Accountability, and Transparency (FAccT) 2023

OTHER ACADEMIC SERVICE

Session Chair, INFORMS Annual Meeting	
Emerging Topics in Decision-Making Under Uncertainty	2023
Learning and Optimization in Pricing	2022
Member, INFORMS Mentorship Program	Since 2018

UNIVERSITY 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

PRESENTATIONS

Intertemporal Pricing via Nonparametric Estimation

INFORMS Annual Meeting, Indianapolis, Indiana	10/2022
INFORMS Annual Meeting, Anaheim, California	10/2021
Revenue Management & Pricing Conference	06/2021
MSOM Data-Driven Challenge Finalist Presentation	11/2020
INFORMS Annual Meeting, Online	10/2020
INFORMS Annual Meeting, Seattle, Washington	11/2019

A Nonparametric Maximum Likelihood Approach to Mixture of Regression

IISA Student Paper Award Presentation	07/2020
Amazon SCOT Visiting BAIR Workshop, UC Berkeley	01/2020

Learning While Repositioning in On-Demand Vehicle Sharing Systems

Data-Driven Urban Tech Workshop Poster Session, Cornell Tech	05/2023
YinzOR Student Conference, Carnegie Mellon University	08/2022
Revenue Management & Pricing Conference	06/2022

Quantum Computing Methods for Supply Chain Management

Modeling and Optimization: Theory and Applications (MOPTA), Lehigh University	08/2023

IEEE/ACM 7th Symposium on Edge Computing, Seattle, Washington 12/2022

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

SKILLS   Python, R, SQL, LaTeX, HTML, Gurobi, AMPL

PERSONAL INFO Pronouns: she/her
              Birth year: 1996
              Recreational activities: tennis, hiking, cat-sitting, cooking