Hansheng Jiang

Contact hansheng_jiang@berkeley.edu

https://hanshengjiang.github.io

 $+1\ 510-833-8004$

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]
 - **Q** 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]
 - **Q** 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 Sp	pring 2023 (Planned)
	Graduate Student Instructor UGBA 141 (Elective): Production & Operations Manager IEOR 173 (Core): Introduction to Stochastic Processes IEOR 262A (PhD Core): Mathematical Programming	ment Spring 2022 Spring 2020 Fall 2019
	Grader UGBA 106 (Core): Marketing IEOR 263A (PhD Core): Applied Stochastic Processes Undergraduate Student Instructor	Fall 2020 Fall 2018

MATH 100201 (Core): Multivariate Real Analysis

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

Spring 2016

- 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 University of California, Los Angeles

Experience 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

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

Department of Industrial Engineering and Operations Research

University of California, Berkeley

maxshen@berkeley.edu

Adityanand Guntuboyina Department of Statistics

University of California, Berkeley

aditya@stat.berkeley.edu

Junyu Cao

Department of Information, Risk, and Operations Management

McCombs School of Business The University of Texas at Austin junyu.cao@mccombs.utexas.edu

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