

# MENGXIN WANG

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## Education

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### University of California, Berkeley

Ph.D in Industrial Engineering and Operations Research

Minor in Statistics and Machine Learning

*Advisor:* Dr. Zuo-Jun (Max) Shen

Berkeley, CA

*May 2023 (Expected)*

### University of California, Berkeley

M.S in Industrial Engineering and Operations Research

Berkeley, CA

*May 2018*

### Tsinghua University

B.Eng in Industrial Engineering (*Summa Cum Laude*; Rank: 1/71)

Beijing, China

*June 2017*

## Honors and Awards

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IEOR Faculty Fellowship

2022

*The IEOR Faculty Fellowship is the highest graduate student award in the department given each year to recognize one student for their overall academic excellence and leadership.*

Teaching Effectiveness Award

2022

*This award recognizes the teaching ideas of up to 14 Outstanding Graduate Student Instructors (GSIs) each year across UC Berkeley.*

Outstanding Graduate Student Instructor Award

2021

*This award honors UC Berkeley GSIs each year for their outstanding work in teaching on the Berkeley campus.*

Graduate Remote Instruction Innovation Fellowship

2021

*A fellowship of \$2,000 intended for students at UC Berkeley to develop high-quality approaches for remote instruction of spring and summer 2021 courses.*

IEOR Department Award

2017-2020

Graduate Division Block Grant Award

2017

Beijing Outstanding Graduate

2017

University Outstanding Graduate

2017

Boeing Fellowship

2016

Science and Technology Innovation Fellowship

2016

Academic Excellence Fellowship

2015-2016

Tsinghua-Changhong Fellowship

2014

## Research Interests

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Algorithm design and data analytics for digital business, with applications in the online marketplace, digital supply chain, and intelligent logistics systems; Machine learning methods and their applications in operations research.

## Publications

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### Journal Papers

1. “Joint Product Design and Dynamic Assortment Optimization: Integrating Strategic and Tactical Revenue Management.” 2022. Major Revision at *Management Science*.  
**Finalist, Jeff McGill Student Paper Award, 2022**  
(with Paat Rusmevichientong, Heng Zhang, Zuo-Jun Max Shen)
2. “Content Promotion for Online Content Platforms with Diffusion Effect.” 2021. Major Revision at *Manufacturing & Service Operations Management*.  
**Best Student Paper of Social Media Analytics, 2022** (Primary Awardee: Yunduan Lin)  
(with Yunduan Lin, Heng Zhang, Renyu Zhang, and Zuo-Jun Max Shen)
3. “Urban Courier: Operational Innovation and Data-driven Coverage-and-Pricing.” 2020. Submitted to *Manufacturing & Service Operations Management*.  
(with Meng Qi, Junyu Cao, and Zuo-Jun Max Shen)
4. “Modeling and Analysis of the Waiting Time of Rapid Response Process in Acute Care.” 2018. *IEEE Robotics and Automation Letters*.  
(with Nan Chen, Xiaolei Xie, Li Zheng, and Colleen H. Swartz)

### Workshop

1. “Smart Feasibility Pump: Reinforcement Learning for (Mixed) Integer Programming.” 2021. ICML 2021 RL for Real Life Workshop.  
**Selected for Spotlight Talk**  
(with Meng Qi and Zuo-Jun Max Shen)

### Book Chapter

1. “Online Retailing Inventory Management.” 2021. Invited book chapter for *Research Handbook on Inventory Management*.  
(with Zuo-Jun Max Shen)

### Work-in-Progress

1. “From Customer Data to Product Design: A Statistical Learning Framework.” 2022. Target Journal: *Management Science*.  
(with Meng Qi and Zuo-Jun Max Shen)

## Professional Experience

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### Uber

June 2020 - August 2020

Data Science Intern @ Eats Pricing Team

- Worked on demand modeling and delivery fee optimization based on large-scale pricing data
- Proposed and implemented a delivery fee optimization framework to allocate a budget of \$20m for boosting business. This framework was launched in the U.S. market in 2020 Q3 onwards.
- Developed an automated pipeline integrating data analysis, modeling, and optimization

## Teaching Experiences

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### Co-instructor

IEOR 253/CEE 258: *Supply Chain and Logistics Management* (Spring 2021)

Teaching evaluation: 4.75/5.00 (IEOR 253, Department average: 4.22), 5.00/5.00 (CEE 258)

- PhD/MS core course covering fundamental and selected state-of-the-art topics on supply chain and logistics management

### **Graduate Student Instructor**

*IEOR 242: Applications in Data Analytics (Spring 2019, Fall 2019, Fall 2020)*

- MEng core class (with 120+ students) covering theory and practical techniques of data analytics
- Held weekly discussion sessions and office hours
- Mentored more than 40 student projects on data analytics applications

### **Reader**

*IEOR 172: Probability and Risk Analysis for Engineers (Fall 2018)*

- Supported 70+ undergraduate students with fundamental topics of probability theory; graded homework and held weekly office hours

## **Contributed and Invited Talks**

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### **Urban Courier: Operational Innovation And Data-driven Coverage-and-pricing**

- *INFORMS Annual Meeting*, Seattle, WA, 2019
- *INFORMS Annual Meeting* (virtual), 2020
- *International Symposium on Transportation Data and Modelling (ISTDM)*, 2021

### **Smart Feasibility Pump: Reinforcement Learning for (Mixed) Integer Programming**

- *ICML 2021 RL for Real Life Workshop Spotlight Talk* (virtual), 2021

### **Joint Product Design and Dynamic Assortment Optimization: Integrating Strategic and Tactical Revenue Management**

- *POMS Annual Conference* (virtual), 2022
- *INFORMS Revenue Management and Pricing (RMP) Section Conference* (virtual), 2022

## **Academic Service**

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### **Reviewer**

- Management Science
- NeurIPS 2022 Workshop on RL for Real Life
- NeurIPS 2022 Workshop on Progress and Challenges in Building Trustworthy Embodied AI

### **Session Chair**

- “Innovation and algorithm advances in online marketplace”, INFORMS, 2022

## **Computing**

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Python, R, SQL, Matlab, Gurobi, Tensorflow, PyTorch