MENG QI

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EDUCATION

University of California, Berkeley *August 2016 - Present*
Ph.D Candidate in Industrial Engineering and Operations Research
Advisor: Zuo-Jun (Max) Shen
Tsinghua University *August 2012 - July 2016*
B.S. in Mathematics and Physics

RESEARCH INTERESTS

My research focuses on data-driven decision making with uncertainty, with application in supply chain management and retail operations. I am particularly interested in robust data-driven solutions and the integration of the prediction and optimization stages in decision making. My research interest also includes the interface of operations management and machine learning.

RESEARCH

Distributionally Robust Conditional Quantile Prediction with Fixed Design
Meng Qi, Ying Cao, Zuo-Jun (Max) Shen *Accepted at* ***Management Science***

A Practical End-to-End Inventory Management Model with Deep Learning
Meng Qi, Yuanyuan Shi*, Yongzhi Qi,*
Chenxin Ma, Rong Yuan, Di Wu, Zuo-Jun (Max) Shen *Accepted at* ***Management Science***

Data-driven research in retail operations –A review
Meng Qi, Ho-Yin Mak, Zuo-Jun (Max) Shen ***Naval Research Logistics, 2020***

Urban Courier: Operational Innovation and Data-driven Coverage-and-Pricing
Mengxin Wang, Meng Qi, Junyu Cao, Zuo-Jun(Max) Shen *Under Review*

Learning Operational Decisions with Intertemporal Dependence and Moderate Non-stationarities
Meng Qi, Zuo-Jun (Max) Shen, Zeyu Zheng *Under Review*

An Integrated Estimation Framework for Contextual Stochastic Optimization Problems
Paul Grigas, Meng Qi, Zuo-Jun (Max) Shen *Working Paper*

C2M: Data-Driven Nonparametric Product Design
Mengxin Wang, Meng Qi, Zuo-Jun (Max) Shen *Working Paper*

Distributionally Robust MDP with Online Adaptive Ambiguity Set
Meng Qi, Shuo Sun, Zuo-Jun (Max) Shen *Working Paper*

End-to-End Inventory Management Model with Deep Learning Under Continuous Review
Mo Liu, Meng Qi, Zuo-Jun (Max) Shen *Working Paper*

HONORS AND AWARDS

- Graduate Remote Instruction Innovation Fellows (2020, UC Berkeley)

- MOR& Grassi Fellowship (2020, IEOR Department, UC Berkeley)
- Honorable Mention, POMS-HK Best Student Paper Competition
- Department Fellowship (2016, IEOR Department, UC Berkeley)
- Scholarship of Excellent Academic Performance (2014, Physics Department, Tsinghua University)
- First Prize in Chinese Physics Olympics (2011)

TEACHING EXPERIENCES

Co-Instructor: IEOR 253/CEE 258 Supply Chain and Logistics Management
2020 Spring & 2021 Spring. Under the supervision of leading instructor Prof. Zuo-Jun (Max) Shen

Graduate Student Instructor: IEOR 142 Introduction to Machine Learning and Data Analytics
2017 Fall & 2018 Fall, Instructor: Prof. Paul Grigas

Graduate Student Instructor: IEOR 242 Applications in Data Analysis
2018 Spring, Instructor: Prof. Paul Grigas

INDUSTRY EXPERIENCE

R&D Intern at JD.com Silicon Valley Research Center
June - August 2018

Developed a practical end-to-end inventory management model empowered by deep learning. This model has been implemented in JD.com's logistics system since 2020. It is currently responsible for the replenishment decisions for 7000+ SKUs and the number is expanding.

INVITED TALKS

An Integrated Estimation Framework for Contextual Stochastic Optimization Problems

- INFORMS Annual Meeting, 2020

Distributionally Robust Conditional Quantile Prediction with Fixed Design

- Berkeley-Columbia Meeting in Engineering and Statistic, 2020
- POMS-HK best student paper competition, 2020
- INFORMS Annual Meeting, 2019, 2020
- POMS Annual Meeting, 2019

A Practical End-to-End Inventory Management Model with Deep Learning

- INFORMS Annual Meeting, 2019

SERVICES

- Organizer, Student Summer Seminar Series, IEOR Department, UC Berkeley, Summer 2019.
- Reviewer, *Management Science* and *Manufacturing & Service Operations Management*.
- Session Chair, INFORMS Annual Meeting, 2020.