

# Meng Qi

OTIM, SC Johnson College of Business, Cornell University

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**Academic Appointments**      **Assistant Professor, Cornell University**      Ithaca, NY  
Operations, Technology and Information Management Department,      2022-present  
Cornell SC Johnson College of Business and Nolan School of Hotel Administration

**Education**

**University of California, Berkeley**      Berkeley, CA  
Ph.D. in Industrial Engineering & Operations Research      2016-2022  
*Minor: Statistics & Machine Learning*

**University of California, Berkeley**      Berkeley, CA  
M.Sc. in Industrial Engineering & Operations Research      2016-2017

**Tsinghua University**      Beijing, China  
B.Sc. in Mathematics and Physics      2012-2016

**Journal Publications**

Qi, M., Y. Cao, Z.-J. Shen. 2022. Distributionally Robust Conditional Quantile Prediction with Fixed Design. *Management Science*, 68(3), 1639-1658.  
<https://doi.org/10.1287/mnsc.2020.3903>

- Honorable mention, POMS-HK best student paper competition, 2020.

Qi, M., Y. Shi, Y. Qi, C. Ma, R. Yuan, D. Wu, Z.-J. Shen. 2023. A Practical End-to-End Inventory Management Model with Deep Learning. *Management Science*, 69(2), 759-773. <https://doi.org/10.1287/mnsc.2022.4564>

- Implemented in production at JD.com since 2020.

- Shortlisted for semi-finalist of 2022 Gartner Power of the Profession Supply Chain Award.

Qi., M., Z.-J. Shen, Z. Zheng. 2024. Learning Newsvendor Problem with Intertemporal Dependence and Moderate Non-stationarities. *Production and Operations Management*, 33(5), 1196-1213.

Qi, M., H.-Y. Mak, Z.-J. Shen. 2020. 'Data-Driven Research in Retail Operations—A Review. *Naval Research Logistics (NRL)* 67, no. 8 (2020): 595-616.  
<https://doi.org/10.1002/nav.21949>

Qi, M., Z.-J. Shen. 2022. Integrating Prediction/Estimation and Optimization with Applications in Operations Management. In *Tutorials in Operations Research: Emerging and Impactful Topics in Operations* (pp. 36-58). *INFORMS*.  
<https://doi.org/10.1287/educ.2022.0249>

**Selected Working Papers**

Qi., M., P. Grigas, Z.-J. Shen. 2021. Integrated Conditional Estimation-Optimization. Major revision at *Operations Research*.  
<https://arxiv.org/abs/2110.12351>

Wang, M., M. Qi, J. Cao, Z.-J. Shen. 2020. Urban Courier: Operational Innovation and Data-driven Coverage-and-Pricing. Under revision.

Wang, M., M. Qi, Z.-J. Shen. 2023. A Learning and Optimization Framework for Personalized Product Design.  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=4554710](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4554710)  
Under revision.

Qi, M., M. Zhu. 2024. Mechanism for Collaborative Federated Learning: A Pitfall of Shapley Values.  
Working paper.  
<https://arxiv.org/abs/2403.04753>

Guo, H., M. Qi, W. Qi. 2024. Overworking or Outsourcing: Integrated Prediction-Optimization for Order Assignment in Last-Mile Delivery.  
Working paper.  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=5054050](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5054050)

- 2024 IISE DAIS Best Student Paper Award (Awarded to student co-author Haoran Guo)

Nu, Y., M. Qi, E. Belavina, K. Girotra. 2024. AI Co-Pilots for Data-Driven Perishable Inventory Management.  
Work in progress. Manuscript available upon request.

Chen, L., X. Chen, M. Qi. 2024. Data-Driven Contextual Value-Based Pricing.  
Work in progress.

**Conference & Workshop**

Qi, M., M. Wang, Z.-J. Shen. 2021. Smart Feasibility Pump: Reinforcement Learning for (Mixed) Integer Programming.  
<https://arxiv.org/abs/2102.09663>  
ICML 2021 RL for Real Life Workshop. **Selected for Spotlight Presentation.**

Sun, S., M. Qi, Z.-J. Shen. 2024. Online MDP with Prototypes Information: A Robust Adaptive Approach.  
<https://arxiv.org/pdf/2412.14075>  
Forthcoming at The 39th Annual AAAI Conference on Artificial Intelligence.

**Teaching Experience**

*Cornell University:*

**Instructor**

*HADM 2011* Spring 2023, 2024, Fall 2024

*Hospitality Quantitative Analysis*

Undergrad core course.

*HADM 4750/6750* Spring 2024

*Machine Learning for Business and Hospitality Applications*

Joint listed undergrad and graduate elective course.

*HADM 9310* Spring 2024

*Service & Healthcare Operations*

Cornell SC Johnson OTIM PhD course series.

*NRE 5460* Fall 2024

*Data Analytics in OM*

Cornell SC Johnson OTIM PhD course series.

*UC Berkeley:*

**Instructor**

*IEOR 253/CEE 258, Supply Chain and Logistics Management* Spring 2021

PhD/MS core course in supply chain and logistic management  
**Co-Instructor**  
*IEOR 253/CEE 258, Supply Chain and Logistics Management* Spring 2020  
**Graduate Student Instructor**  
*IEOR 142 Introduction to Machine Learning and Data Analytics* Fall 2017& 2018  
 Undergraduate core course in data analytics (with R).  
*IEOR 242 Applications in Data Analysis* Spring 2018  
 MEng core course in data analytics (with R).

**Industry Experience**  
 Research Scientist Intern, **Amazon** New York, Summer 2021  
 Research Scientist Intern, **JD.com** Mountain View, Summer 2018

**Honors and Awards**  
 Semi-finalist, Gartner Power of the Profession Supply Chain Award 2022  
 Outstanding GSI Award Berkeley 2021  
 Marshall-Oliver-Rosenberger Fellowship Berkeley IEOR 2020  
 Graduate Remote Instruction Innovation Fellows Berkeley 2020  
 Honorable Mention, POMS-HK Best Student Paper Competition 2020  
 IEOR Department Fellowship Award Berkeley IEOR 2016  
 Scholarship of Excellent Academic Performance Tsinghua University 2014  
 First Prize, Chinese Physics Olympiad 2011

**Services**  
**Journal reviewer:** *Management Science, Operations Research, Manufacturing & Service Operations Management, Production and Operations Management, Mathematical Programming, IISE Transactions, Naval Research Logistics.*  
**Member:** *INFORMS, MSOM Society, POMS, SIAM, SPS*  
**Organizer,** Cornell OTIM seminar (Since Spring 2024); Cornell OTIM research symposium (June 2024 and 2025); UC Berkeley IEOR Student Summer Seminar Series(Summer 2019).