

MENGLONG LI

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7-269, Lau Ming Wai Academic Building, City University of Hong Kong

EMPLOYMENT

- City University of Hong Kong.** Hong Kong, China. 12/2021 - Now
Department of Management Sciences
Assistant Professor
- Massachusetts Institute of Technology.** Cambridge, MA. 01/2021 - 11/2021
Institute for Data, Systems, and Society
Postdoctoral Associate

EDUCATION

- University of Illinois at Urbana-Champaign.** Champaign, IL. 08/2016 - 12/2020
Department of Industrial and Enterprise Systems Engineering
Ph.D. in Operations Research
- University of Pierre and Marie Curie.** Paris, France. 09/2014 - 06/2015
Department of Mathematics
M.S. in Mathematics
- Tsinghua University.** Beijing, China. 09/2010 - 07/2014
Department of Mathematical Sciences
B.S. in Mathematics

RESEARCH INTEREST

Inventory management, revenue management, (discrete) convex analysis, approximation algorithms, game theory, data-driven decision-making

PUBLICATIONS

- Xingyu Bai, Xin Chen, Menglong Li, Alexander Stolyar (2023) Asymptotic Optimality of Semi-Open-Loop Policies in Markov Decision Processes with Large Lead Times. *Operations Research*, forthcoming.
- Xin Chen, Menglong Li (2022) S-Convexity and Gross Substitutability. *Operations Research*, forthcoming.
- Xin Chen, Menglong Li (2021) M-Natural-Convexity and Its Applications in Operations. *Operations Research*, 69(5):1396-1408.
- Xin Chen, Menglong Li (2021) Discrete Convex Analysis and Its Applications in Operations: A Survey. *Production and Operations Management*, 30(6):1904-1926.

WORKING PAPERS

- Xingyu Bai, Xin Chen, Menglong Li and Alexander Stolyar (2023) Asymptotic Optimality of Open-Loop Policies in Lost-Sales Inventory Models with Stochastic Lead Times. Major revision at *Management Science*

- Beryl Chen, Menglong Li, David Simchi-Levi (2022) Dynamic Pricing With Infrequent Inventory Replenishments. Major revision at *Management Science*
- Xin Chen, Jiachun Li, Menglong Li, Tiancheng Zhao, Yuan Zhou (2022) Assortment Optimization Under the Multivariate MNL Model. Reject and resubmit at *Management Science*
- Menglong Li, David Simchi-Levi, Renfei Tan, Chonghuan Wang, Michelle Xiao Wu (2023) Contextual offline demand learning and pricing with separable models. Under review at *Management Science*

WORK IN PROCESS

- Menglong Li, Yanzhi Li, Tongwen Wu (2023) Multi-purchase Markov-Chain Choice Model: Estimation and Assortment Optimization.
- Yifan Hu, Menglong Li, and Xiaoshuang Wang (2023) Computation of Optimal Open-Loop Controls in Markov Decision Processes.
- Ebrahim Arian, Bin Cao, Xin Chen, Menglong Li (2023) Decentralized Pricing and Capacitated Assortment Planning in an Online Marketplace.
- Xin Chen, Menglong Li, David Simchi-Levi, Tiancheng Zhao (2020) Allocation of Covid-19 Vaccines Under Limited Supply.

TALKS

- **S-Convexity and Gross Substitutability**
New Perspectives on Substitutes Workshop, Paris 2023
- **Asymptotic Optimality of Open-Loop Policies in Lost-Sales Inventory Models with Stochastic Lead Times**
Jinan University 2023
University of Science and Technology of China 2023
POMS International Conference in China 2023
- **Assortment Optimization Under the Multivariate MNL Model**
POMS HK 2023
University of Science and Technology of China 2022
Frontiers in Operations Management Workshop, HKUST 2022
- **Decentralized Pricing and Capacitated Assortment Planning in an Online Marketplace**
POMS International Conference in China 2022
CityU MS Department Regular Seminar 2022
- **Allocation of COVID-19 Vaccines under Limited Supply**
UIUC ISE Graduate Seminar 2020
- **Substitutability, M^h -Convexity and Their Applications**
MSOM Conference 2018
- **M^h -Convexity and Its Applications in Operations**
UIUC Gies College of Business Brown Bag Seminar 2019
Informs Annual Meeting 2019
POMS Conference 2019

PROFESSIONAL SERVICES

- CB Student Enrichment Committee at CityU 2023-now
- International Exchange Coordinator of MS department at CityU 2022 - Now
- JUPAS Interviewer of MS department at CityU in 2022, 2023
- Examination Officer of MS department at CityU 2022 - Now
- MScOSCM Programme Committee of MS department at CityU 2022 - Now
- E-Learning Coordinator of MS department at CityU 2022 - Now
- Reviewer for POM, MSOM, Operations Research Letters, NRL
- Session Chair for MSOM Conference 2018, CSAMSE 2023

AWARD RECOGNITION

- William A. Chittenden II Award (university level) 2020
- YinzOR Poster Competition Third Place (university level) 2019
- UIUC ISE Department Travel Poster Presentation First Place (university level) 2019
- Alibaba Global Mathematics Competition Excellence Award (international level) 2018
- Fondation Sciences Mathématiques de Paris Program scholarship (international level) 2014 - 2015
- China National Grants (national level) 2013
- China National Grants (national level) 2011
- China Mathematical Olympiad Silver Award (national level) 2010
- National High School Mathematics League First Prize (national level) 2009