

Shuo Sun

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EDUCATION	University of California, Berkeley	<i>08/2021 – Current</i>
	Ph.D. Candidate in Industrial Engineering and Operations Research	
	Minor in Statistics & Algorithm Design	
	Advisors: Zuo-Jun Max Shen & Rajan Udwani	
	Tsinghua University	<i>08/2016 – 06/2021</i>
	B.E. in Industrial Engineering	
	University of Wisconsin-Madison	<i>08/2019 – 12/2019</i>
	Exchange student	
RESEARCH INTERESTS	Retail & Platform Operations, Data Analytics, Algorithm Design, Optimization under Uncertainty, Assortment Optimization, Inventory Management	
HONORS & AWARDS	Honorable mention, POMS-HK Best Student Paper Competition	<i>2025</i>
	Winner, INFORMS Daniel H. Wagner Prize	<i>2024</i>
	Finalist, INFORMS RMP Jeff McGill Best Student Paper Award	<i>2024</i>
	IEOR Ph.D. First-year Fellowship	<i>2021–2022</i>
	Finalist, INFORMS Undergraduate OR Prize	<i>2020</i>
INDUSTRY EXPERIENCE	Amazon, Seattle, WA	<i>05/2024 – 08/2024</i>
	Applied scientist intern at Fashion, Fitness & Creators	
PREPRINTS & PUBLICATIONS	[1] A Markovian Approach for Cross-Category Complementarity in Choice Modeling, with Omar El Housni and Rajan Udwani. In preparation for submission [link]	
	[2] A Unified Algorithmic Framework for Dynamic Assortment Optimization under MNL Choice, with Rajan Udwani and Zuo-Jun Max Shen. Major revision at Operations Research [link]	
	• <i>Extended Abstract in 2025 ACM Conference on Economics and Computation</i> [link]	
	• Finalist for the 2024 INFORMS RMP Jeff McGill Student Paper Award	
	• Honorable Mention, 2025 POMS-HK Best Student Paper Competition	
	[3] JD.com Improves Fulfillment Efficiency with Data-driven Integrated Assortment Planning and Inventory Allocation, with Zuo-Jun Max Shen, Yongzhi Qi, Hao Hu, Ningxuan Kang, Jianshen Zhang, Xin Wang, Xiaoming Lin. To Appear in INFORMS Journal on Applied Analytics [link]	
	• Winner of the 2024 INFORMS Daniel H. Wagner Prize [link]	
	[4] Online MDP with Prototypes Information: A Robust Adaptive Approach, with Meng Qi and Zuo-Jun Max Shen. Proceedings of the Thirty-Ninth AAAI Conference on Artificial Intelligence [link]	
TEACHING	Graduate Student Instructor, Supply Chain & Logistics Management	2024 Spring
	Graduate Student Instructor, Optimization Analytics	2022 Fall, 2023 Fall
	Graduate Student Instructor, Economics of Supply Chains	2023 Spring, 2025 Spring

INVITED TALKS	“A Markovian Approach for Cross-Category Complementarity in Choice Modeling”	
	• INFORMS RMP 2025, INFORMS Annual Meeting 2025	
	“A Unified Algorithmic Framework for Dynamic Assortment Optimization under MNL Choice”	
	• POMS-HK 2025, INFORMS RMP 2024, INFORMS Annual Meeting 2023	
	“JD.com Improves Fulfillment Efficiency with Data-driven Integrated Assortment Planning and Inventory Allocation”	
	• INFORMS Analytics 2024 (award session)	
	“Online MDP with Prototypes Information: A Robust Adaptive Approach”	
	• ISMP 2024, AAAI 2025 (poster presentation)	

SERVICES	Reviewer for Management Science, Operations Research, Manufacturing and Service Operations Management, MSOM SIG	
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OTHER EXPERIENCE	Member, Berkeley IEOR Grad Student Services Leadership Group	<i>2024, 2025</i>
	Panelist, Berkeley IEOR Ph.D. Visiting Day	<i>2023, 2024</i>
	Mentor for new Ph.D. students, Berkeley IEOR	<i>2023</i>
	Panelist, Berkeley IEOR PhD Orientation Day	<i>2022</i>