

WENQIAN XING

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RESEARCH INTERESTS	My research interests broadly lie in stochastic modeling and decision-making under uncertainty, with a focus on causal inference, reinforcement learning, and AI evaluation and alignment.	
EDUCATION	Stanford University	2023 – 2028
	Ph.D. in Operations Research	
	M.S. in Management Science and Engineering	
	Columbia University	2021 – 2023
	M.S. in Operations Research	
	University of Michigan – Shanghai Jiao Tong University	2016 – 2021
	M.S. in Financial Engineering	
	B.S. in Electrical and Computer Engineering; B.S. minor in Data Science	
PREPRINTS	[1] Baseline-Adjusted Truncated Policy Gradients for Rapid-Switching Experiments W. McCloskey, W. Xing, A. Badanidiyuru, E. Becker, C. Harris, S. Wager, R. Johari <i>CODE@MIT 2026, Deployed at Uber</i>	
	[2] Fast Access or Familiar Care? Learning-Based Capacity Allocation with Endogenous Patient Choice (α - β) W. Xing, Y. Zhang, Y. Hu Under review at <i>Management Science</i>	
	[3] Learning to Communicate Under Alignment Uncertainty: A Bayesian Persuasion Bandit Approach W. Xing, R. Johari <i>ML$\times$OR Workshop, NeurIPS 2026</i> <i>Finalist, 2026 DMDA Workshop Best Paper Competition (Theoretical Track)</i>	
	[4] Online Learning for Dynamic Service Mode Control W. Xing, Y. Hu, A. Kalvit, V. Sarhangian Major revision at <i>Operations Research</i> <i>Finalist, 2026 INFORMS Service Science Best Student Paper Competition</i>	
	[5] Generalized Hypercube Queueing Models with Overlapping Service Regions W. Xing, S. Zhu, Y. Xie Major revision at <i>Service Science</i> <i>First Place, Clifford Spiegelman Student Paper Competition, JSM 2026</i>	
	[6] Optimizing Server Locations in Spatial Queues: Parametric and Non-parametric Bayesian Optimization Approaches (α - β) C. Hua, A. J. Swersey, W. Xing, Y. Zhang Major revision at <i>Operations Research</i>	
PUBLICATIONS*	[1] Estimation of Treatment Effects under Nonstationarity via the Truncated Policy Gradient Estimator (α - β) R. Johari, T. Peng, W. Xing Under review at <i>Stochastic Systems</i> <i>ICML 2026</i> <i>ML$\times$OR Workshop, NeurIPS 2025</i>	
	[2] Conservative Inference in Switchback Experiments (α - β) J. Blanchet, P. W. Glynn, R. Johari, L. Wu, W. Xing <i>AISTATS 2026</i>	
	[3] Black-Box Optimization with Implicit Constraints for Public Policy W. Xing, J. Lee, C. Liu, S. Zhu <i>Oral Paper (4.9%), AAAI 2025</i> <i>Refereed Paper, INFORMS Optimization Society Conference 2024</i>	

* α - β indicates alphabetical ordering of authors.

- [4] [Multi-Priority Patient Transfer Under Ambulance Offload Delay](#)
W. Xing, C. Hua
Production and Operations Management 2025
Finalist, Best Student Paper Competition, POMS-China International Conference 2024
Second Place, Best Student Paper Competition, INFORMS Conference on Service Science 2021
- [5] [Optimal Unit Locations in Emergency Service Systems with Bayesian Optimization](#)
W. Xing, C. Hua
Finalist, Best Paper Competition, INFORMS Conference on Service Science 2022
Finalist, Best Student Paper Competition, POMS-HK International Conference 2022
- [6] [NuSC: An Effective Local Search Algorithm for Solving the Set Covering Problem](#)
C. Luo, W. Xing, S. Cai, C. Hu
IEEE Transactions on Cybernetics 2022
- [7] [Predictive Job Scheduling under Uncertain Constraints in Cloud Computing](#)
H. Dong, B. Wang, B. Qiao, W. Xing, C. Luo, S. Qin, Q. Lin, D. Zhang, G. Virdi, T. Moscibroda
IJCAI 2021, Deployed at Microsoft Azure
- [8] [Correlation-Aware Heuristic Search for Intelligent Virtual Machine Provisioning in Cloud Systems](#)
C. Luo, B. Qiao, W. Xing, X. Chen, P. Zhao, C. Du, R. Yao, H. Zhang, W. Wu, S. Cai, B. He, S. Rajmohan, Q. Lin
AAAI 2021, Deployed at Microsoft Azure

INDUSTRIAL EXPERIENCES	Amazon	Jun 2026 – Sep 2026
	<i>Applied Scientist Intern, Amazon Core AI</i> – Conducted research on multi-agent decision-making for Amazon Stores	
	Millennium Management	Aug 2021 – Oct 2021
	<i>Quantitative Research Intern, WorldQuant</i> – Sought trading signals using abnormal data in financial markets	
	Cardinal Operations	Jul 2021 – Aug 2021
	<i>Algorithm Research Intern</i> – Applied and tested the COPT mathematical optimization solver	
	Microsoft	Mar 2020 – Jul 2021
	<i>Research Intern, Microsoft Research Asia</i> – Conducted research on online resource allocation for Microsoft Azure – Developed heuristic solvers for NP-hard problems, e.g., SAT, MAXSAT, and Set Covering	
	Intel	Sep 2019 – Dec 2019
	<i>Capstone Project, Intel APAC R&D</i> – Completed bachelor’s thesis, “Deep Learning Foundation in FFmpeg”	
AWARDS	Student Scholarship, INFORMS Workshop on Data Science	2022, 2024
	MS&E Graduate Fellowship, Stanford University	2023
	IEOR Graduate Fellowship, Columbia University	2022
	Professional Development Scholarship, Columbia University	2022
	Outstanding Graduate Award, Shanghai Ministry of Education	2021
	Future Talent Award, Microsoft Research	2020
SERVICE	Committee Observer, George B. Dantzig Dissertation Award	
	Program Committee Member, INFORMS Workshop on Data Science	
	Webmaster, Stochastic Networks, Applied Probability, and Performance (SNAPP) Seminar Series	
	Session Chair, “Experimentation and Interference”, INFORMS Annual Meeting 2025	
	Reviewer, <i>NeurIPS</i> , <i>ICML</i> , <i>AAAI</i> , <i>AISTATS</i> , <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <i>Production and Operations Management</i> , <i>Amazon Machine Learning Conference</i>	