## Xiaobo Li

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Employment	National University of Singapore, Singapore Assistant Professor, Department of Industrial Systems Engineering	Jul. 2018 - Present and Management	
Education	<b>University of Minnesota</b> , Minneapolis, MN Ph.D., Department of Industrial and Systems Engineering	Aug. 2013 - Jun. 2018	
	<ul> <li>Thesis title: "On Applications of Convex Optimization to Discrete Choice Modeling"</li> <li>Advisors: Shuzhong Zhang and Zizhuo Wang</li> </ul>		
	<b>Singapore University of Technology and Design</b> , Singapore Research and Teaching Assistant, Engineering Systems and Design	Sep. 2012 - Aug. 2013	
	<b>City University of Hong Kong</b> , Kowloon, Hong Kong M.Phil., Department of Management Sciences	Sep. 2010 - Aug. 2012	
	<ul><li>Thesis title: "Convex Bounds for Dependent Risks with Applications to Robust Optimization"</li><li>Advisor: Karthik Natarajan</li></ul>		
	University of Science and Technology of China, Hefei, China B.S., Department of Physics	Sep. 2006 - Jul. 2010	
Research Interests	Data-Driven Decision Making, Stochastic and Robust Optimization, Pricing and Revenue Man- agement, Discrete Choice Models, Online Learning, Sharing Economy		
INDUSTRY EXPERIENCE	Lyft, San Francisco, CA Data Science Summer Intern	May 2017 - Aug. 2017	
	<ul> <li>Improved prediction accuracy for the estimated time of arrival (ETA) using machine learning</li> <li>Investigated effects of various events on the ETA</li> </ul>		
	Target Corporation, Minneapolis, MN	Jun. 2016 - Aug. 2016	
	Data Science Summer Intern		
	<ul><li>Estimated customers' preferences using discrete choice models for assortment optimization</li><li>Adjusted modeling approach to improve estimation accuracy</li></ul>		
PUBLICATIONS	"Convex Optimization for Bundle Size Pricing Problem" (with Hailong Sun and Chung Piaw Teo). Accepted by Management Science, 2021.		
	"A Convex Optimization Approach for Computing Correlated Choice Probabilities with Many Alternatives" (with Selin Damla Ahipasaoglu and Karthik Natarajan). <i>IEEE Transactions on</i>		

Automatic Control, 64(1), 190-205, 2019.

	"Online Learning with Non-Convex Losses and Non-Stationary Regret" (with Xiang Gao and Shuzhong Zhang). The 21st International Conference on Artificial Intelligence and Statistics (AIS-TATS 2018)
	"On Substitutability and Complementarity in Discrete Choice Models" (with Guiyun Feng and Zizhuo Wang). <i>Operations Research Letters</i> , 46(1), 141-146, 2018.
	"On the Relation Between Several Discrete Choice Models" (with Guiyun Feng and Zizhuo Wang). Operations Research, 65(6), 1516-1525, 2017.
	"Robustness to Dependency in Portfolio Optimization Using Overlapping Marginals" (with Karthik Natarajan and Xuan Vinh Doan). <i>Operations Research</i> , 63(6), 1468-1488, 2016.
	"On Theoretical and Empirical Aspects of Marginal Distribution Choice Models" (with Vinit Mishra, Karthik Natarajan, Dhanesh Padmanabhan and Chung-Piaw Teo). <i>Management Science</i> , 60(6), 1511-1531, 2014.
	"Distributionally Robust Mixed Integer Linear Programs: Persistency Models with Applications" (with Karthik Natarajan, Chung-Piaw Teo, Zhichao Zheng). European Journal of Operational Research, 233(3), 459-473, 2014.
PAPERS UNDER REVIEW	"Inventory Repositioning in On-Demand Product Rental Networks" (with Xiang Li, Daniel Jiang, and Saif Benjaafar). <i>Minor revision at Management Science</i> , 2021.
	"Optimal Policies and Heuristics to Match Supply with Demand for Online Retailing" (with Yun Fong Lim and Fang Liu). <i>Major revision at Management Science</i> , 2020.
	"Assortment Optimization under Heteroscedastic Data" (with Selin Damla Ahipasaoglu and Zeyu Sun). <i>Reject and Resubmit at Operations Research</i> , 2020.
Research Grants	Start-up Grant, "Modelling Correlations in Discrete Choice Models", 2018
	Ministry of Education Academic Research Fund Tier 3, "Science of Prescriptive Analytics: Solvers, Platforms and Applications", 2020
TEACHING EXPERIENCE	Industrial Systems Engineering and Management, National University of Singapore Instructor
	<ul> <li>IE 4211 Modeling and Analytics, Spring 2019, Spring 2020, Spring 2021</li> <li>IE 6881 Revenue Management, Fall 2019, Spring 2021</li> <li>IE 6099 ISE Research Methodology, Fall 2020</li> </ul>
	Industrial and Systems Engineering, University of Minnesota Instructor
	• IE 5553 Simulation, Spring 2016, Spring 2017
	Teaching Assistant
	<ul> <li>IE 3012 Optimization II, Fall 2015, Fall 2016</li> <li>IE 2521 Statistics, Quality and Paliability, Fall 2012, Spring 2014</li> </ul>
	• IE 3521 Statistics, Quality and Reliability, Fall 2013, Spring 2014

	<ul> <li>Engineering Systems and Design, Singapore University of Technology and Design Co-Instructor</li> <li>10.007 Modelling the Systems World, Spring 2013</li> </ul>		
	<ul> <li>Management Sciences, City University of Hong Kong Course Tutor</li> <li>MS 8941 Linear &amp; Discrete Optimization, Fall 2011</li> <li>Teaching Assistant</li> <li>CB 2201 Quantitative Methods, Spring 2012</li> </ul>		
Academic Honors and Awards	© Council of Graduate Students (COGS) Travel Grants, University of Minnesota	2016	
	Second Place in INFORMS Financial Services Section Best Student Paper Competition	2013	
	Finalist in INFORMS Poster Competition	2013	
	College of Science and Engineering Fellowship, University of Minnesota 2013 -	- 2014	
	Outstanding Student Scholarship, University of Science and Technology of China 2006 -	- 2009	
Selected Invited Talks	Invited Talk, POMS Annual Meeting, Washington D.C.	2019	
	Job Talk Seminar, Department of Industrial Engineering and Operations Research, Columbia University, New York City 2018		
	Job Talk Seminar, MIT Sloan School of Management, Boston	2018	
	Job Talk Seminar, Imperial College Business School, London	2018	
	Invited Talk, The Fourth Amazon Annual Graduate Research Symposium, Seattle	2017	