

# Zijin Zhang

EDUCATION	<b>University of Michigan</b> , Ann Arbor, MI <span style="float: right;">2019 - 2024 (<i>expected</i>)</span> <i>Ph.D.</i> in Technology & Operations, Stephen M. Ross School of Business (GPA: 4.0+/4.0) Co-advisors: Hyun-Soo Ahn and Lennart Baardman	
	<b>Nanjing University</b> , Nanjing, China <span style="float: right;">2014 - 2018</span> <i>B.S.</i> in Mathematics and Statistics (top 10%)	
	<b>University of Wisconsin-Madison</b> , Madison, WI <span style="float: right;">2017</span> <i>Exchange student</i>	
RESEARCH INTERESTS	<b>Topics</b> Revenue Management $\diamond$ E-Commerce $\diamond$ Consumer Behavior <b>Methodology</b> Optimization $\diamond$ Approximation Algorithm $\diamond$ Learning Theory	
RESEARCH PAPERS	<p>“<b>Ordering and Ranking Products for an Online Retailer</b>”, with Hyun-Soo Ahn and Lennart Baardman. <i>Under revision</i></p> <ul style="list-style-type: none"> <li>• Studies a joint inventory ordering and product ranking problem for curation retailers who sell products from the inventory they purchase and own; shows that an online retailer can gain substantially by considering ordering and ranking decisions together</li> <li>• Develops a series of algorithms with strong analytical and numerical performance for static, dynamic, offline, and online settings</li> <li>• Presented at 2021 INFORMS Annual Meeting, Anaheim, CA</li> </ul> <p>“<b>Pooling and Balking: Decisions on COVID-19 Testing</b>”, with Daniel Zhuoyu Long and Rowan Wang. <i>Under revision</i></p> <ul style="list-style-type: none"> <li>• Studies a resource pooling problem: whether local governments should build centralized or decentralized testing sites (service efficiency vs. virus transmission in crowds)</li> <li>• Analytically characterizes the trade-off between pooling benefits and infection risk</li> </ul> <p>“<b>Learning Preferences from Pairwise Comparisons: A Tournament Design</b>”, with Hyun-Soo Ahn and Lennart Baardman. <i>Work in progress</i></p>	
TEACHING EXPERIENCE	<p><b>Instructor</b>, Operations Management (TO 313, BBA Core) <span style="float: right;">Fall 2021</span></p> <ul style="list-style-type: none"> <li>• Teaching evaluation: 4.9/5.0 (class size: 75)</li> <li>• Role: Lectured twice a week (1.5 hours each); held weekly office hours; designed and implemented in-class activities; guided team projects; co-developed exams and course materials</li> <li>• Topics: Process analysis, waiting time analysis, inventory management, project management, supply chain management and sustainability, demand forecasting, and revenue management</li> </ul> <p><b>Subject Matter Expert</b>, EMBA courses</p> <ul style="list-style-type: none"> <li>• Online Executive Education: Value Driven Thinking <span style="float: right;">Spring 2022</span></li> <li>• EMBA Quantitative Skills Workshop <span style="float: right;">Summer 2021</span></li> <li>• Business Analytics and Statistics for Executives <span style="float: right;">Fall 2020</span></li> </ul> <p><b>Teaching Assistant</b>, MBA courses</p> <ul style="list-style-type: none"> <li>• TO 534: Introduction to Operations <span style="float: right;">Summer 2022</span></li> <li>• TO 618: Applied Business Analytics and Decisions <span style="float: right;">Fall 2020</span></li> <li>• TO 421: Logistics <span style="float: right;">Winter 2020</span></li> <li>• TO 605: Manufacturing and Supply Operations <span style="float: right;">Fall 2019, Winter 2020</span></li> </ul>	

EMPLOYMENT	Oracle, Burlington, MA Data Scientist Intern		Summer 2022
	China CITIC Bank, Beijing, China Credit Risk Analyst Intern		Summer 2015
HONORS & AWARDS	Early Candidacy Research Grant, Ross School of Business		2021
	Doctoral Fellowship, University of Michigan		2019 - present
	Merit Student of Jiangsu Province (1%)		2017
	Undergraduate Student Scholarship, Nanjing University		2015 - 2017
	Second Place, National Citi Cup Financial Innovation Application Contest		2016
	Honorable Mention, Mathematical and Interdisciplinary Contest in Modeling		2016
	Outstanding College Student in Social Practice		2015
	First Prize, National Olympiad Informatics Contest (selected into the provincial team)		2013
COMMUNITY SERVICE	Advisory board, undergraduate consulting club - Rem & Co. (which offers free consulting service to minority-owned local business impacted by COVID-19)		2021 - 2022
	Communication chair, Ross School of Business - PhD Forum		2020 - 2021
	Mentor, PhD Mentorship Program, University of Michigan		2020
	Volunteer, Nanjing Museum		2015 - 2017
	Vice president, Class 2018 of Mathematics Department, Nanjing University		2015
	SELECTED COURSEWORK	Optimization	Linear Programming, Integer Programming, Dynamic Programming
Economics		Game Theory, Mechanism Design	
Mathematics		Analysis II, Functional Analysis, Probability Theory	
Stochastic		Stochastic Processes, Queueing, Stochastic Differential Equations	
Statistics		Mathematical Statistics, Risk Statistics, Advanced Social Statistics	
Computer Science		Machine Learning, Data Structures, Database, Online Algorithms	
Special Topics		Inventory Theory, Digital Public Goods	
ADDITIONAL	Programming: C++, Pascal, Python, Matlab, R, SQL, L <sup>A</sup> T <sub>E</sub> X		
	Languages: English (professional), Mandarin (native)		
	Interests: Avid hiker, rock climber, and nature explorer		