

Zijin Zhang

EDUCATION	University of Michigan, Ann Arbor, MI <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	2019 - 2024 (<i>expected</i>)
	Nanjing University, Nanjing, China <i>B.S.</i> in Mathematics and Statistics (top 10%)	2014 - 2018
	University of Wisconsin-Madison, Madison, WI <i>Exchange student</i>	2017

RESEARCH INTERESTS	Topics Revenue Management ◊ E-Commerce ◊ Consumer Behavior Methodology Optimization ◊ Approximation Algorithm ◊ Learning Theory
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RESEARCH PAPERS	<p>“Ordering and Ranking Products for an Online Retailer”, with Hyun-Soo Ahn and Lennart Baardman. <i>Under revision</i></p> <ul style="list-style-type: none">• 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• Develops a series of algorithms with strong analytical and numerical performance for static, dynamic, offline, and online settings• Presented at 2021 INFORMS Annual Meeting, Anaheim, CA <p>“Pooling and Balking: Decisions on COVID-19 Testing”, with Daniel Zhuoyu Long and Rowan Wang. <i>Under revision</i></p> <ul style="list-style-type: none">• Studies a resource pooling problem: whether local governments should build centralized or decentralized testing sites (service efficiency vs. virus transmission in crowds)• Analytically characterizes the trade-off between pooling benefits and infection risk <p>“Design Subscription Boxes”, with Hyun-Soo Ahn and Lennart Baardman. <i>Work in progress</i></p>
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TEACHING EXPERIENCE	<p>Instructor, Operations Management (TO 313, BBA Core) <i>Fall 2021</i></p> <ul style="list-style-type: none">• Teaching evaluation: 4.9/5.0 (class size: 75)• 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• Topics: Process analysis, waiting time analysis, inventory management, project management, supply chain management and sustainability, demand forecasting, and revenue management <p>Instructional Support Specialist, MBA/EMBA courses</p> <ul style="list-style-type: none">• TO 534: Introduction to Operations <i>Summer 2022</i>• EMBA 610: Managerial Big Data Analytics <i>Summer 2022</i>• Online Executive Education: Value Driven Thinking <i>Spring 2022</i>• EMBA Quantitative Skills Workshop <i>Summer 2021</i>• Business Analytics and Statistics for Executives <i>Fall 2020</i> <p>Teaching Assistant, MBA and PhD-level courses</p> <ul style="list-style-type: none">• TO 899: T&O PhD Seminar: Inventory Theory <i>Fall 2022</i>• TO 421: Logistics <i>Winter 2021</i>• TO 618: Applied Business Analytics and Decisions <i>Fall 2020</i>• TO 605: Manufacturing and Supply Operations <i>Fall 2019, Winter 2020</i>
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EMPLOYMENT	Oracle, Burlington, MA <i>Data Scientist Intern</i>	<i>Summer 2022</i>
	China CITIC Bank, Beijing, China <i>Credit Risk Analyst Intern</i>	<i>Summer 2015</i>

HONORS & AWARDS	Early Candidacy Research Grant, Ross School of Business	<i>2021</i>
	Doctoral Fellowship, University of Michigan	<i>2019 - present</i>
	Merit Student of Jiangsu Province (1%)	<i>2017</i>
	Undergraduate Student Scholarship, Nanjing University	<i>2014 - 2018</i>
	Second Place, National Citi Cup Financial Innovation Application Contest	<i>2016</i>
	Honorable Mention, Mathematical and Interdisciplinary Contest in Modeling	<i>2016</i>
	Outstanding College Student in Social Practice	<i>2015</i>
	First Prize, National Olympiad Informatics Contest (selected into the provincial team)	<i>2013</i>

COMMUNITY SERVICE	Advisory board, undergraduate consulting club - <i>Rem & Co.</i>	<i>2021 - 2022</i>
	(which offers free consulting service to minority-owned local business impacted by COVID-19)	
	Communication and Social Chair, Ross School of Business - PhD Forum	<i>2020 - 2021</i>
	Mentor, PhD Mentorship Program, University of Michigan	<i>2020</i>
	Volunteer, Nanjing Museum	<i>2015 - 2017</i>
	Vice president, Class 2018 of Mathematics Department, Nanjing University	<i>2015</i>

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 ^A T _E X Languages: English (professional), Mandarin (native) Interests: Avid hiker, rock climber, and nature explorer
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