## Zhe Liu

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ACADEMIC APPOINTMENT		Imperial College London, Imperial Business SchoolLondon, UKDepartment of Analytics, Marketing & Operations2019–Assistant Professor of Operations Management2019–			
EDUCATION		***		New York, NY 2013–2019	
		Tsinghua University B.S., Industrial Engineering		Beijing, China 2009–2013	
RESEARCH		Revenue management: operations and design of platforms, assortment optimization			
Interests		Supply chain management: multi-sourcing, inventory management			
JOURNAL PUBLICATIONS	[1]	Sourcing with Demand Updates, <i>Management Science</i> , forthcoming. (with Awi Federgruen and Jiaqi Lu)  • MSOM Supply Chain Management SIG Invited Talk, 2023			
	[2]	Dual Sourcing under Internal and External Volatilities, <i>Manufacturing &amp; Servic Operations Management</i> , 27(3):975-992, 2025. (with Awi Federgruen and Jiaquen)			
		MSOM Supply Chain Managem	nent SIG Invited Talk, 2021		
	[3]	Ride-Hailing Networks with Strategic bilities on Performance, <i>Manufac</i> 25(5):1890-1908, 2023 (with Philipp • MSOM Service SIG Invited Tal	turing & Service Operation Afèche and Costis Maglaras	$ons\ Management,$	
	[4]	Combined Pricing and Inventory Contions Research Letters, 51(1):60	<del>-</del>		
	[5]	Dual Sourcing: Creating and Utilizing  Production and Operations Ma ergruen and Lijian Lu)  • 2nd Place, POMS College of SC • 2nd Place, POMS-HK Best Stu	nagement, 31(7):2789-2805, CM Student Paper Competition	2022 (with Awi Fedon, 2018	
	[6]	Synthesis and Generalization of Structure alized Convexity Property, <i>Mather</i> 2020 (with Awi Federgruen and Lij  Finalist, George Nicholson Stud  MSOM Supply Chain Managem	natics of Operations Reservant Lu) ent Paper Competition, 2018		
Working Papers	[7]	Operating Three-sided Marketplace: tems, <i>Management Science</i> , ma • 1st Place, INFORMS Service Sc • 2nd Place, CSAMSE Best Pape	jor revision. (with Yiwen She cience Best Cluster Paper Aw	n and Yanwei Sun)	

[8] Information Design and Pricing in Lead-Selling Platforms with Supply Competition,

and Jiahua Wu)

Management Science, major revision. (with Yanwei Sun, Niloofar Zamani-Foroushani

- Proceedings of the 25th ACM Conference on Economics and Computation, EC'24
- [9] Assortment Optimization and Pricing in a Queue, *Management Science*, reject & resubmit. (with Kalyan Talluri and Shixin Wang)
- [10] On-Off Systems with Strategic Customers, *Operations Research*, reject & resubmit. (with Yanwei Sun and Chiwei Yan)
- [11] Surge Pricing and Dynamic Matching for Hotspot Demand Shock in Ride-Hailing Networks. (with Philipp Afèche and Costis Maglaras)
- [12] Trip Radar: a Controlled Decentralized System to Enhance Matchmaking in Ride-Hailing. (with Hongfan Chen, Anran Li and Quan Zhou)
- [13] Robust Weakly Coupled Markov Decision Processes. (with Fupeng Sun, Huikang Liu and Wolfram Wiesemann)

## Work in Progress

- [14] The Price of Prestige: Exclusive Pricing and Selling of Luxury Bands and Resale Market Dynamics. (with Anran Li and Rachel Q. Zhang)
- [15] Information Design in Research Funding. (with Anran Li, Wenqi Lian and Mengyang Lin)
- [16] Inventory Control and Markdown Pricing of Perishable Products with Waste Constraints. (with Gah-Yi Ban and Molly Wang)

# OTHER WORKS

Inventory Strategies for Service-Sensitive Demands, *Undergraduate Thesis*, 2013. (Advisor: Zuo-Jun Max Shen)

Service Parts Demand Forecasting and Multi-Echelon Inventory Network Design, Research Report for Caterpillar Logistics, 2013. (with K. Wang, W. Zhu and X. Zhao)

Multistage Stochastic Mixed-Integer Programs for Optimizing Gas Contract and Maintenance Scheduling, *Permanent working paper*, 2012. (with Siqian Shen)

Intermittent Demand Forecasting of Slow Moving Parts, *Tsinghua University Student Journal*, 4(2): 34-49, 2012. (with Jialing Tao and Yi Yang)

Cases

ILUMÉXICO: A Built-for-Assembly Supply Chain Strategy, *Columbia Case Works*, ID: 170203, 2017. (with Awi Federgruen and Abigail Talcott-Schlaifer)

#### Industry

## Research Scientist Intern, Amazon, Seattle

June-Aug. 2018

2019 - 2025

## TEACHING

## Imperial Business School, London, UK

• Big Data, AI and Machine Learning (MBA elective)	2020-2025
• Decision Analytics (MBA core)	2021 – 2022
• Optimization (PhD core)	$2020,\ 2022 – 2025$

• Maths and Statistics Foundations for Analytics (MSBA core)

## London Business School, London, UK

• Demand and Revenue Management (PhD elective)	2020, 2022, 2024
• Advanced Optimization (PhD elective)	2023

## Columbia Business School, New York, NY

• MBA Exce	el Workshop—Advanced Level	2015 - 2017
• Intro to Sp	preadsheet Optimization and Simulation (MSE master)	2016 – 2017

## Honors and Awards

- 1st Place, INFORMS Service Science Best Cluster Paper Award, 2024
- 2nd Place, CSAMSE Best Paper Award, 2024
- MSOM Supply Chain Management SIG Invited Talk, 2023
- Management Science Meritorious Service Award, 2022
- MSOM Meritorious Service Award, 2022
- MSOM Supply Chain Management SIG Invited Talk, 2021
- 2nd Place, POMS-HK Best Student Paper Competition, 2019
- Finalist, George Nicholson Student Paper Competition, 2018
- 2nd Place, POMS College of SCM Student Paper Competition, 2018
- Doctoral Fellow Presentation at Deming Cup Award Ceremony, 2018
- Chazen Institute for Global Business Research Award, 2018
- MSOM Service SIG Invited Talk (8/66 submissions), 2018
- MSOM Supply Chain Management SIG Invited Talk (8/43 submissions), 2018
- Deming Doctoral Research Fellowship, 2016
- Deming Doctoral Research Fellowship, 2015
- Doctoral Fellowship, Columbia Business School, 2013–2018
- Tsinghua University Outstanding Undergraduate Student Award, 2013.
- Beijing Outstanding Undergraduate Student Award, 2013.
- President Jiang Nan-Xiang Scholarship, Tsinghua University, 2012.
- 1st Place, 30th Tsinghua Challenge Cup Research and Innovation Contest, 2012.
- Changhong Scholarship, Tsinghua University, 2011.
- Outstanding Prize (Top 4/8000) in 27th National College Physics Contest, 2011.
- OOCL Scholarship, Tsinghua University, 2010.

### Services

- PhD Director of the Analytics & Operations area, Imperial Business School, 2023—
- Secretary/Treasurer, INFORMS RMP Section, 2025–2026
- Guest Associate Editor for Naval Research Logistics
- Journal referee for Management Science, Manufacturing & Service Operations Management, Operations Research, Operations Research Letters, Production & Operations Management, Transportation Science, Transportation Research Part B
- External reviewer for the Research Grants Council (RGC) of Hong Kong
- Committee Member
  - INFORMS RMP Jeff McGill Student Paper Award, 2024–2025
  - 2026 INFORMS TSL Conference
- Judge
  - POMS-HK Best Student Paper Competition, 2023–2024
  - MSOM Student Paper Competition, 2024–2025
  - CSAMSE Best Paper Competition, 2024
  - POMS College of Service Operations Management Best Student Paper Competition, 2025
- Reviewer
  - MSOM Service SIG Conference, 2022, 2024
  - MSOM Supply Chain Management SIG Conference, 2020–2022, 2025
- Organizer of the 2023 INFORMS RMP Annual Conference, Imperial College Business School
- Session chair at INFORMS Annual Meeting, 2021-

## STUDENT SUPERVISION

## Current PhD students

- Niloofar Zamani-Foroushani (jointly with Prof. Jiahua Wu) Expected: 2026
- Fupeng Sun (jointly with Prof. Wolfram Wiesemann) Expected: 2028
- Molly Wang (jointly with Prof. Gah-Yi Ban) Expected: 2029

## Former PhD students

• Yanwei Sun (jointly with Prof. Jiahua Wu): 2022–2025 (supervision concluded)

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INVITED SEMINARS	• Cornell University, Cornell SC Johnson College of Business		2025
	• University of Macau, Faculty of Business Administration		2025
	• IESE Business School		2025
	• Xi'an Jiaotong University, School of Management		2025
	• Durham University, Business School		2024
	• Control and Optimization Seminar, Imperial College London		2024
	• Hong Kong University of Science and Technology, Department of IEDA		2023
	• Chinese University of Hong Kong, Shenzhen, School of Data Science		2023
	• Hong Kong Polytechnic University		2022
	• Rotman Young Scholar Seminar Series, University of Toronto		2022
	• Chinese University of Hong Kong, CUHK Business School		2022
	• Shanghai Jiao Tong University, Antai College of Economics and Manage	ment	2021
	• University of Science and Technology of China, School of Management		2021
	• Tianjin University, College of Management and Economics		2021
	• Fudan University, School of Management		2020
	• University College London, School of Management		2019
	• Imperial College London, Imperial College Business School		2019
	• University of Toronto, Rotman School of Management		2019
	• University of Miami, Miami Business School		2019
	• Indiana University, Kelley School of Business		2019
	• University of Hong Kong, Faculty of Business and Economics		2019
	• City University of Hong Kong, College of Business		2019
	• Hong Kong University of Science and Technology, HKUST Business Scho	ool	2019
	• Northwestern University, Kellogg School of Management		2018
Conference	• INFORMS Annual Meeting, Atlanta, GA	Oct.	2025
Talks	• INFORMS RMP Section Conference, Columbia University		2025
	• MSOM Annual Conference, London Business School, London		2025
	• INFORMS Annual Meeting, Seattle, WA		2024
	• INFORMS RMP Section Conference, UCLA		2024
	• MSOM Annual Conference, Minneapolis, MN (2 talks)		2024
	• INFORMS Annual Meeting, Phoenix, AZ		2023
	• Marketplace Innovation Workshop (virtual)		2023
	• INFORMS RMP Section Conference (virtual), Chicago Booth		2022
	• Marketplace Innovation Workshop (virtual)		2022
	• INFORMS Annual Meeting (virtual), Anaheim, CA		2021
	• CSAMSE Annual Conference, Shanghai, China	July	2021
	• INFORMS RMP Section Conference (virtual), Johns Hopkins University		
	• MSOM Annual Conference (virtual), Indiana University		2021
	• INFORMS Annual Meeting (virtual) (2 talks)	Nov.	2020
	• INFORMS Annual Meeting, Seattle, WA (3 talks)	Oct.	2019
	• 5th Annual Fashion Operations and Retailing Conference, London, UK	Oct.	2019
	• MSOM Annual Conference, Singapore	July	2019
	• INFORMS RMP Section Conference, Stanford, CA	June	2019
	• POMS-HK Int'l Conference (Student Paper Competition), Hong Kong	Jan.	2019
	• INFORMS Annual Meeting, Phoenix, AZ (3 talks; George Nicholson Student Paper		
	Competition)	Nov.	2018
	• MSOM Service SIG Meeting, Dallas, TX	July	2018
	• MSOM Supply Chain Management SIG Meeting, Dallas, TX	July	2018

• MSOM Annual Conference, Dallas, TX (2 talks)

• INFORMS RMP Section Conference, Toronto, Canada

July 2018

 $\mathrm{June}\ 2018$ 

• POMS Annual Conference (Student Paper Competition), Houston, TX	May 2018	
• INFORMS Annual Meeting, Houston, TX (2 talks)		
• Amazon Supply Chain Optimization Summit (Poster), Seattle, WA		
• CSAMSE Annual Conference, Guangzhou, China	July 2017	
• MSOM Annual Conference, Chapel Hill, NC	June $2017$	
• Marketplace Innovation Workshop, Stanford, CA	June $2017$	
• Deming Doctoral Fellow Seminar, New York, NY	April 2017	
• INFORMS Annual Meeting, Nashville, TN (3 talks)	Nov. 2016	
• MSOM Annual Conference, Auckland, New Zealand (2 talks)	July 2016	
• INFORMS RMP Section Conference, New York, NY	June 2016	
• Trans-Atlantic Doctoral Conference, London, UK	May 2016	
• Deming Doctoral Fellow Seminar, New York, NY	April 2016	

Last updated on October 30, 2025