

# Zhe Liu

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CONTACT	Imperial College Business School Imperial College London London, SW7 2AZ, UK	Phone: +44 (0)20 7594 7919 E-mail: zhe.liu@imperial.ac.uk Webpage: imperial.ac.uk/people/zhe.liu
ACADEMIC APPOINTMENT	<b>Imperial College London, Imperial College Business School</b> <i>Department of Analytics, Marketing &amp; Operations</i> Assistant Professor of Operations Management	London, UK 2019 – current
EDUCATION	<b>Columbia University, Graduate School of Business</b> Ph.D., Operations Management Advisors: Awi Federgruen, Costis Maglaras	New York, NY 2013 – 2019
	<b>Tsinghua University</b> B.S., Industrial Engineering Advisor: Zuo-Jun Max Shen	Beijing, China 2009 – 2013
RESEARCH INTERESTS	Revenue management and pricing, supply chain management, data analytics	
JOURNAL PUBLICATIONS	Ride-Hailing Networks with Strategic Drivers: The Impact of Platform Control Capabilities on Performance, <i>Manufacturing &amp; Service Operations Management</i> , 25(5): 1890-1908, 2023. (with Philipp Afèche and Costis Maglaras)	
	Combined Pricing and Inventory Control with Multiple Unreliable Suppliers, <i>Operations Research Letters</i> , 51(1): 60-66, 2023. (with Awi Federgruen and Jiaqi Lu)	
	Dual Sourcing: Creating and Utilizing Flexible Capacities with a Second Supply Source, <i>Production and Operations Management</i> , 31(7): 2789-2805, 2022 (with Awi Federgruen and Lijian Lu)	
	Synthesis and Generalization of Structural Results in Inventory Management: A Generalized Convexity Property, <i>Mathematics of Operations Research</i> , 45(2): 547-575, 2020 (with Awi Federgruen and Lijian Lu)	
WORKING PAPERS	Dual Sourcing under Internal and External Volatilities <i>Operations Research</i> , under review. (with Awi Federgruen and Jiaqi Lu)	
	Sourcing with Demand Updates, <i>Management Science</i> , reject and resubmit. (with Awi Federgruen and Jiaqi Lu)	
	Operating Three-sided Marketplace: Pricing and Spatial Staffing in Food Delivery Systems, <i>Management Science</i> , under review. (with Yiwen Shen and Yanwei Sun)	
	Assortment Optimization and Pricing with Service Rate Consideration, <i>manuscript available upon request</i> . (with Kalyan Talluri and Shixin Wang)	
	Surge Pricing and Dynamic Matching for Hotspot Demand Shock in Ride-Hailing Networks, <i>in preparation</i> . (with Philipp Afèche and Costis Maglaras)	
	Multistage Stochastic Mixed-Integer Programs for Optimizing Gas Contract and Maintenance Scheduling, 2012. (with Siqian Shen)	
OTHER PUBLICATIONS	Inventory Strategies for Service-Sensitive Demands, <i>Undergraduate Thesis</i> , 2013. (Advisor: Zuo-Jun Max Shen)	
	Service Parts Demand Forecasting and Multi-Echelon Inventory Network Design, <i>Research Report for Caterpillar Logistics</i> , 2013. (with K. Wang, W. Zhu and X. Zhao)	
	Intermittent Demand Forecasting of Slow Moving Parts, <i>Tsinghua University Student Journal</i> , 4(2): 34-49, 2012. (with Jialing Tao and Yi Yang)	

CASES	ILUMÉXICO: A Built-for-Assembly Supply Chain Strategy, <i>Columbia CaseWorks</i> , ID: 170203, 2017. (with Awi Federgruen and Abigail Talcott-Schlaifer)	
INDUSTRY	<b>Research Scientist Intern</b> , Amazon, Seattle	June – Aug. 2018
TEACHING	<p><b>Imperial College Business School</b>, London, UK</p> <ul style="list-style-type: none"> <li>• Big Data, AI and Machine Learning (MBA elective) 2020 – 2024</li> <li>• Decision Analytics (MBA core) 2021 – 2022</li> <li>• Optimization (PhD core) 2020, 2022 – 2023</li> <li>• Maths and Statistics Foundations for Analytics (MSBA core) 2019 – 2024</li> </ul> <p><b>London Business School</b>, London, UK</p> <ul style="list-style-type: none"> <li>• Demand and Revenue Management (PhD elective) 2020, 2022, 2024</li> <li>• Advanced Optimization (PhD elective) 2023</li> </ul> <p><b>Columbia Business School</b>, New York, NY</p> <ul style="list-style-type: none"> <li>• MBA Excel Workshop—Advanced Level 2015 – 2017</li> <li>• Intro to Spreadsheet Optimization and Simulation (MSE master) 2016 – 2017</li> </ul>	
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• MSOM Supply Chain Management SIG Invited Talk, 2023</li> <li>• MSOM Supply Chain Management SIG Invited Talk, 2021</li> <li>• 2nd Place, POMS-HK Best Student Paper Competition, 2019</li> <li>• Finalist, George Nicholson Student Paper Competition, 2018</li> <li>• 2nd Place, POMS College of SCM Student Paper Competition, 2018</li> <li>• Doctoral Fellow Presentation at Deming Cup Award Ceremony, 2018</li> <li>• Chazen Institute for Global Business Research Award, 2018</li> <li>• MSOM Service SIG Invited Talk (8/66 submissions), 2018</li> <li>• MSOM Supply Chain Management SIG Invited Talk (8/43 submissions), 2018</li> <li>• Deming Doctoral Research Fellowship, 2016</li> <li>• Deming Doctoral Research Fellowship, 2015</li> <li>• Doctoral Fellowship, Columbia Business School, 2013–2018</li> <li>• Tsinghua University Outstanding Undergraduate Student Award, 2013.</li> <li>• Beijing Outstanding Undergraduate Student Award, 2013.</li> <li>• President Jiang Nan-Xiang Scholarship, Tsinghua University, 2012.</li> <li>• 1st Place, 30th Tsinghua Challenge Cup Research and Innovation Contest, 2012.</li> <li>• Changhong Scholarship, Tsinghua University, 2011.</li> <li>• Outstanding Prize (Top 4/8000) in 27th National College Physics Contest, 2011.</li> <li>• OOCL Scholarship, Tsinghua University, 2010.</li> </ul>	
SERVICES	<ul style="list-style-type: none"> <li>• PhD Director of the Analytics &amp; Operations area, Imperial College Business School</li> <li>• Guest Associate Editor for <i>Naval Research Logistics</i></li> <li>• External reviewer for the Research Grants Council (RGC) of Hong Kong</li> <li>• Journal referee for <i>Management Science</i>, <i>Manufacturing &amp; Service Operations Management</i>, <i>Operations Research</i>, <i>Operations Research Letters</i>, <i>Production &amp; Operations Management</i>, <i>Transportation Science</i></li> <li>• Organizer of the 2023 INFORMS RMP Annual Conference, Imperial College Business School</li> </ul>	
INVITED SEMINARS	<ul style="list-style-type: none"> <li>• Hong Kong University of Science and Technology, Department of IEDA 2023</li> <li>• Chinese University of Hong Kong, Shenzhen, School of Data Science 2023</li> <li>• Hong Kong Polytechnic University 2022</li> <li>• Rotman Young Scholar Seminar Series, University of Toronto 2022</li> <li>• Chinese University of Hong Kong, CUHK Business School 2022</li> <li>• Shanghai Jiao Tong University, Antai College of Economics and Management 2021</li> <li>• University of Science and Technology of China, School of Management 2021</li> </ul>	

	• 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 School	2019
	• Northwestern University, Kellogg School of Management	2018
CONFERENCE TALKS	• INFORMS Annual Meeting, Phoenix, AZ	Oct. 2023
	• Marketplace Innovation Workshop (virtual)	May 2023
CONFERENCE TALKS	• INFORMS RMP Section Conference (virtual), Chicago Booth	June 2022
	• Marketplace Innovation Workshop (virtual)	May 2022
	• INFORMS Annual Meeting (virtual), Anaheim, CA	Oct. 2021
	• CSAMSE Annual Conference, Shanghai, China	July 2021
	• INFORMS RMP Section Conference (virtual), Johns Hopkins University	June 2021
	• MSOM Annual Conference (virtual), Indiana University	June 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)	July 2018
	• INFORMS RMP Section Conference, Toronto, Canada	June 2018
	• POMS Annual Conference (Student Paper Competition), Houston, TX	May 2018
	• INFORMS Annual Meeting, Houston, TX (2 talks)	Oct. 2017
	• Amazon Supply Chain Optimization Summit (Poster), Seattle, WA	Oct. 2017
	• 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