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/peop		
Academic Appointment	Imperial College London, Imperial Department of Analytics, Marketing Assistant Professor of Operations Ma	& Operations	ondon, UK 9 – current	
EDUCATION Columbia University, Graduate School of B Ph.D., Operations Management Advisors: Awi Federgruen, Costis Maglaras		2	York, NY 013 – 2019	
	Tsinghua University B.S., Industrial Engineering	Beij	ing, China 009 – 2013	
Research Interests	Revenue management : operations and design of sharing economy platforms, asso ment optimization			
	Supply chain management: multi-sou	rcing, inventory management		
Journal Publications	о о г			
	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 Feder- gruen 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	Sourcing with Demand Updates, <i>Management Science</i> , major revision. (with Awi Federgruen and Jiaqi Lu)			
	Operating Three-sided Marketplace: Pricing and Spatial Staffing in Food Delivery Systems, <i>Management Science</i> , major revision. (with Yiwen Shen and Yanwei Sun)			
	Dual Sourcing under Internal and External Volatilities, Manufacturing & Service Oper- ations Management, under review. (with Awi Federgruen and Jiaqi Lu)			
	Information Design and Pricing of Supply Competition in Lead-Selling Platforms, to be submitted. (with Yanwei Sun, Niloofar Zamani-Foroushani and Jiahua Wu)			
	Assortment Optimization and Pricing with Service Rate Consideration, manuscript available upon request. (with Kalyan Talluri and Shixin Wang)			
	Surge Pricing and Dynamic Matching for Hotspot Demand Shock in Ride-Hailing Net- works, <i>in preparation</i> . (with Philipp Afèche and Costis Maglaras)			
	Polling Systems with Strategic Customers Yan)	s, in preparation. (with Yanwei Sun a	and Chiwei	
	Robust Weakly Coupled Markov Decision and Wolfram Wiesemann)	n Processes, in preparation. (with F	upeng Sun	

	Multistage Stochastic Mixed-Integer Programs for Optimizing Gas Contract and Main- tenance Scheduling, 2012. (with Siqian Shen)		
Other Publications	Inventory Strategies for Service-Sensitive Demands, Undergraduate Thesis, 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	Research Scientist Intern, Amazon, Seattle June – Aug. 2018		
Teaching	Imperial College Business School, London, UK2020 - 2024• Big Data, AI and Machine Learning (MBA elective)2021 - 2022• Decision Analytics (MBA core)2021 - 2022• Optimization (PhD core)2020, 2022 - 2024• Maths and Statistics Foundations for Analytics (MSBA core)2019 - 2024		
	London Business School, London, UK2020, 2022, 2024• Advanced Optimization (PhD elective)2023		
	Columbia Business School, New York, NY2015 - 2017• MBA Excel Workshop—Advanced Level2015 - 2017• Intro to Spreadsheet Optimization and Simulation (MSE master)2016 - 2017		
Honors and Awards	 MSOM Supply Chain Management SIG Invited Talk, 2023 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. Ist 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 College Business School 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 External reviewer for the Research Grants Council (RGC) of Hong Kong 		

	 Member of the INFORMS RMP Jeff McGill Student Paper Award Comm Reviewer for the MSOM Service SIG Conference, 2022, 2024 Reviewer for the MSOM Supply Chain Management SIG Conference, 20 Judge for the POMS-HK Best Student Paper Competition, 2024 Judge for the MSOM Student Paper Competition, 2024 Judge for the CSAMSE Best Paper Competition, 2024 Organizer of the 2023 INFORMS RMP Annual Conference, Imperial Consess School)20 - 2022
Student Supervision	Current PhD students • Fupeng Sun, 2023 – • Yanwei Sun, 2022 – • Niloofar Zamani-Foroushani, 2021 –	
Invited Seminar	 Hong Kong University of Science and Technology, Department of IEDA Chinese University of Hong Kong, Shenzhen, School of Data Science Hong Kong Polytechnic University Rotman Young Scholar Seminar Series, University of Toronto Chinese University of Hong Kong, CUHK Business School Shanghai Jiao Tong University, Antai College of Economics and Manage University of Science and Technology of China, School of Management Tianjin University, College of Management and Economics Fudan University, School of Management University College London, School of Management Imperial College London, Imperial College Business School University of Toronto, Rotman School of Management University of Miami, Miami Business School Indiana University, Kelley School of Business University of Hong Kong, Faculty of Business Hong Kong University of Hong Kong, College of Business Hong Kong University of Science and Technology, HKUST Business School Northwestern University, Kellogg School of Management 	$\begin{array}{c} 2021\\ 2021\\ 2020\\ 2019\\ 2019\\ 2019\\ 2019\\ 2019\\ 2019\\ 2019\\ 2019\\ 2019\\ 2019\\ 2019\end{array}$
Conference Talks	 INFORMS RMP Section Conference, UCLA MSOM Annual Conference, Minneapolis, MN (2 talks) INFORMS Annual Meeting, Phoenix, AZ Marketplace Innovation Workshop (virtual) INFORMS RMP Section Conference (virtual), Chicago Booth Marketplace Innovation Workshop (virtual) INFORMS RMP Section Conference (virtual), Chicago Booth Marketplace Innovation Workshop (virtual) INFORMS Annual Meeting (virtual), Anaheim, CA CSAMSE Annual Conference, Shanghai, China INFORMS RMP Section Conference (virtual), Johns Hopkins University MSOM Annual Conference (virtual), Indiana University INFORMS Annual Meeting (virtual) (2 talks) INFORMS Annual Meeting, Seattle, WA (3 talks) 5th Annual Fashion Operations and Retailing Conference, London, UK MSOM Annual Conference (Student Paper Competition), Hong Kong INFORMS Annual Meeting, Phoenix, AZ (3 talks; George Nicholson Stu Competition) MSOM Service SIG Meeting, Dallas, TX MSOM Annual Conference, Dallas, TX (2 talks) 	June 2021 Nov. 2020 Oct. 2019 Oct. 2019 July 2019 June 2019 Jan. 2019

• 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

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