

Zhe “Jeffrey” Liu

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RESEARCH INTERESTS	Revenue management and pricing, supply chain management, business analytics	
EDUCATION	Columbia University, Graduate School of Business • Ph.D. Candidate in Decision, Risk and Operations • Advisors: Awi Federgruen, Costis Maglaras	New York, NY 2013–2019
	Tsinghua University • B.S. in Industrial Engineering, GPA: 95/100 (ranks 2/62) • Advisor: Zuo-Jun Max Shen	Beijing, China 2009–2013
JOURNAL PUBLICATIONS	Ride-Hailing Networks with Strategic Drivers: The Impact of Platform Control Capabilities on Performance, <i>MSOM</i> , major revision. (with Philipp Afèche and Costis Maglaras) An interactive visualization of NYC taxi flows (web link): NYC Taxi Map	
	A Synthesis and Generalization of Structural Results in Inventory Management: Generalized Convexity Properties, <i>Math of OR</i> , forthcoming. (with Awi Federgruen and Lijian Lu)	
	Dual Sourcing under Capacity Limits, Fixed Costs and Salvage Opportunities, <i>MSOM</i> , major revision. (with Awi Federgruen and Lijian Lu)	
WORKING PAPERS	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 WRITTEN	ILUMÉXICO: A Built-for-Assembly Supply Chain Strategy, <i>Columbia CaseWorks</i> , ID: 170203, 2017. (with Awi Federgruen and Abigail Talcott-Schlaifer)	
WORK EXPERIENCE	Research Scientist Intern , Amazon, Seattle	June–Aug. 2018
TEACHING EXPERIENCE	Instructor • MBA Excel Workshop—Advanced Level • Intro to Spreadsheet Optimization and Simulation (MSE master)	Spring/Fall 2015–2017 Fall 2016–2017
	Teaching Assistant • Business Analytics (MBA/EMBA core, MSE master) • Managerial Statistics (MBA/EMBA core) • Operations Management (MBA/EMBA core) • Corporate Finance (EMBA core) • Mathematical Methods (Marketing master) • Supply Chain Management (MSE master) • Operations Strategy (MBA elective)	2014–2016 2014–2018 2016–2019 2015 2015–2018 2016–2018 2014

HONORS AND AWARDS

- 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

Referee for *Manufacturing & Service Operations Management* and *Management Science*

INVITED SEMINARS

- 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

“A Tale of Timescales: Surge Pricing and Dynamic Matching for Hotspot Demand Shock in Ride-Hailing Networks”

- INFORMS RMP Annual Conference, Stanford, CA June 2019
- INFORMS Annual Meeting, Phoenix, AZ Nov. 2018
- MSOM Annual Conference, Dallas, TX July 2018
- INFORMS RMP Annual Conference, Toronto, Canada June 2018
- INFORMS Annual Meeting, Houston, TX Oct. 2017

“Ride-Hailing Networks with Strategic Drivers: The Impact of Platform Control Capabilities on Performance”

- INFORMS Annual Meeting, Phoenix, AZ Nov. 2018
- MSOM Service SIG Meeting, Dallas, TX July 2018
- INFORMS Annual Meeting, Houston, TX Oct. 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 Nov. 2016
- INFORMS RMP Annual Conference, New York, NY June 2016

“A General Dual Sourcing Inventory Model: Trading Off Lead Time and Cost Differences”

- POMS-HK International Conference, Hong Kong Jan. 2019
- MSOM Annual Conference, Dallas, TX July 2018
- POMS Annual Conference (Student Paper Competition), Houston, TX May 2018
- Amazon Supply Chain Optimization Summit (Poster), Seattle, WA Oct. 2017

- CSAMSE Annual Conference, Guangzhou, China July 2017
- INFORMS Annual Meeting, Nashville, TN Nov. 2016
- MSOM Annual Conference, Auckland, New Zealand July 2016
- Trans-Atlantic Doctoral Conference, London, UK May 2016
- Deming Doctoral Fellow Seminar, New York, NY April 2016

“Generalized Convexity Properties: A Synthesis and Generalization of Structural Results in Inventory Management”

- INFORMS Annual Meeting (George Nicholson Student Paper Competition), Phoenix, AZ Nov. 2018
- MSOM Supply Chain Management SIG Meeting, Dallas, TX July 2018
- INFORMS Annual Meeting, Nashville, TN Nov. 2016
- MSOM Annual Conference, Auckland, New Zealand July 2016

COMPUTER
SKILLS

Languages: Mathematica, Python, C/C++, Java, R, VB, SQL

Software and tools: ILOG CPLEX, FICO Xpress, GAMS, LINGO, AnyLogic

Web development: Django Framework, HTML, Javascript, CSS

REFERENCES

Professor Awi Federgruen

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Columbia University
New York, NY, USA
E-mail: af7@gsb.columbia.edu

Professor Costis Maglaras

Decision, Risk and Operations
Graduate School of Business
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E-mail: c.maglaras@gsb.columbia.edu

Professor Philipp Afeche

Operations Management and Statistics
Rotman School of Management
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Last updated on April 1, 2019