

Zuyi Liu

Lee Kong Chian School of Business
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EDUCATION

Lee Kong Chian School of Business, Singapore Management University	Singapore
Ph.D. in Operations Management, Advisor: Onur Boyabatli	2022 - Present
Harbin Institute of Technology	Shenzhen, China
Master of Management, Thesis: Pricing Strategies for a Closed-Loop Supply Chain with a Recycling Platform	2020 - 2022
Jilin University	Changchun, China
Bachelor of Industrial Engineering,	2016 - 2020

RESEARCH INTERESTS

- Sustainable Operations
- Operational Decisions in Commodity Markets
- Manufacturing Flexibility and Capacity Management

WORK IN PROGRESS

1. Integrated Optimization of Procurement, Processing, and Refining in the Presence of Input and Output Price Uncertainties with Battery Recycling Applications.
with Onur Boyabatli and Cerag Pince
2. Flexible versus Dedicated Technology and Capacity Investment in Multi-Input Multi-Output Commodity Processing Industries.
with Onur Boyabatli and Cerag Pince

CONFERENCE PRESENTATIONS

1. *Integrated Optimization of Procurement, Processing, and Refining in the Presence of Input and Output Price Uncertainties with Battery Recycling Applications*
 - INFORMS Annual Meeting, San Francisco, CA (Invited Session; Upcoming) Nov 2026
 - INFORMS MSOM Annual Conference, Boston, MA (Accepted) Jul 2026
 - POMS-HK International Conference, Shenzhen, China (Session Organizer & Chair) Jan 2026
 - Singapore Analytics & Operations Day (PhD Flash Presentation), SMU Oct 2025
2. *Flexible versus Dedicated Technology and Capacity Investment in Multi-Input Multi-Output Commodity Processing Industries*
 - INFORMS International Meeting (Invited Session) Jul 2025
3. *Pricing Strategies for a Closed-Loop Supply Chain with a Recycling Platform* (Master's Thesis)
 - POMS International Conference in China (Invited Session) Jun 2022

PROFESSIONAL ACTIVITIES & TEACHING EXPERIENCE

Professional Activities

- *Reviewer*, Singapore Rising Scholars Conference, SMU 2025, 2026

Teaching Experience

Teaching Assistant, Singapore Management University

- Risk Management in Global Supply Chains (MBA) FA 2024, SP 2026
- Operations and Supply Chain Management (MiM) SP 2025
- Sustainable Operations (MiM) FA 2024
- Decision Analysis (Undergraduate; held office hours and consultation sessions) SP 2024, FA 2025

Instructor, SquareStrategics Research Institute

- Introduction to Supply Chain Management (Online Lecture) Mar 2021

FELLOWSHIPS AND AWARDS

Fellowships

- Ph.D. Fellowship, Singapore Management University 2022 - 2026
- First-Class Scholarship (Top 5%), Harbin Institute of Technology 2020 - 2022
- First-Class Scholarship (Top 5%), Jilin University 2018
- National Scholarship (Top 1%), Jilin University 2017

Awards

- Dean's Ph.D. Student Award, Singapore Management University 2026
- Outstanding Winner, Tsinghua National Industrial Engineering Application Case Competition 2019
- First Prize, "Internet Plus" Innovation and Entrepreneurship Competition (Jilin Province) 2019
- Third Prize, National MathorCup Mathematical Modeling Competition 2019
- First Prize, Jilin Province Mathematical Modeling Competition 2018