

LIYING MU

Alfred Lerner College of Business & Economics, University of Delaware
Email: muliyang@udel.edu

EDUCATION

The University of Texas at Dallas, Richardson, TX <i>Doctoral Studies in Operations Management</i> , PhD	2014
The University of Texas at Dallas, Richardson, TX <i>Master of Science in Supply Chain Management</i>	2012
Chinese Academy of Sciences, Beijing, China <i>Master of Science in Applied Mathematics</i>	2008
Beijing Institute of Technology, Beijing, China <i>Bachelor of Science in Applied Mathematics</i>	2005

ACADEMIC POSITIONS

Associate Professor of Operations Management, University of Delaware, Alfred Lerner College of Business & Economics	2023-Present
Assistant Professor of Operations Management, University of Delaware, Alfred Lerner College of Business & Economics	2014-2023

RESEARCH INTEREST

- Socially-Responsible Operations Management
- Agricultural Operations Management
- Applications of Game Theory, Cooperative Game Theory, and Negotiation

PUBLISHED ARTICLES

FT 50 = Top 50 journals used in Financial Times Research Rank;
UTD 24 = UT Dallas top 24 business journals.

- Milind Dawande, Sameer Mehta, **Liying Mu** (in alphabetical order). 2023. Robin Hood to the Rescue: Sustainable Revenue-Allocation Schemes for Data Cooperatives. *Production and Operations Management* (FT 50, UTD 24), 32(8), 2560–2577 .
–Listed on “SSRN’s top ten download list for Decision-Making & Management Science eJournal”.
- Yating Li, **Liying Mu**. 2023. The Role of Offline Trade in Sharing Accommodation. *Decision Sciences*, 54(1), 101–112.

- **Liying Mu**, Bin Hu, A Amarender Reddy, Srinagesh Gavirneni. 2022. Negotiating Government-to-Government Food Importing Contracts: A Nash-Bargaining Framework. *Manufacturing & Service Operations Management* (FT 50, UTD 24), 24(3), 1681–1697.
- **Liying Mu**, Milind Dawande, Vijay Mookerjee. 2019. Shaping the Values of a Milk Cooperative: Theoretical and Practical Considerations. *Production and Operations Management* (FT 50, UTD 24), 28(9), 2259–2278.
–Selected to present at the 2018 MSOM Sustainable Operations SIG Conference (10% acceptance rate).
- **Liying Mu**, Milind Dawande, Xianjun Geng, Vijay Mookerjee. 2016. Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries. *Management Science* (FT 50, UTD 24), 62(5), 1259–1277.
–Winner of the “ENRE 2014-2016 Best Publication - Natural Resources” award.
- **Liying Mu**, Milind Dawande, Vijay Mookerjee. 2014. Improving the Milk Supply Chain in Developing Countries: Analysis, Insights, and Recommendations. *Production and Operations Management* (FT 50, UTD 24), 23(7), 1098–1112.
- **Liying Mu**, Milind Dawande, Srinagesh Gavirneni, Chelliah Sriskandarajah. 2014. Optimal Selection of Line Extensions: Incorporating Operational, Financial, and Marketing Constraints. *IEEE Transactions on Engineering Management*, 61(4), 738–754.

REVISIONS AND ONGOING PROJECTS

- Yating Li, **Liying Mu**. The Impact of Offline Trade under Competition: When Offline Trade Meets Smart Pricing. Working paper (expected to submit in April, 2026).
- Sameer Mehta, **Liying Mu**, Milind Dawande, Vijay Mookerjee. Can Producers Be Testers? A Peer-to-Peer Testing Framework for Milk Cooperatives. Work in progress.
- **Liying Mu**, Milind Dawande, Vijay Mookerjee. Improving the Operational Efficiency of the Public Distribution of Food Grains. Work in progress.

TEACHING EXPERIENCE

Operations Management & Management Science (MBA) – University of Delaware, Spring 2019, Spring 2018.

Service and Operations Management (Undergraduate Core) – University of Delaware, Fall 2025, Spring 2025, Fall 2024, Spring 2024, Fall 2023, Spring 2023, Fall 2022, Spring 2022, Fall 2021, Spring 2021, Fall 2020, Spring 2020, Spring 2019, Spring 2018, Spring 2017, Fall 2016, Spring 2016, Fall 2015, Fall 2014.

Operations and Supply Chains (Undergraduate) – UD-SWUFE, Summer 2025, Summer 2024, Summer 2023.

Introduction to Operations Management (Undergraduate Core) – The University of Texas at Dallas, Spring 2013, Spring 2012.

PROFESSIONAL ASSOCIATIONS AND SERVICE

Editorial Review Board Member: Production and Operations Management, 2015-Present

Track Chair: *Agriculture and Food Supply Chains* track for the 2025 POMS annual conference

Track Chair: *Agriculture and Food Supply Chains* track for the 2025 DSI annual conference

Reviewer: Management Science, Manufacturing & Service Operations Management, Production and Operations Management, Decision Sciences, Omega, International Journal of Production Research, Naval Research Logistics, Interfaces

Member: INFORMS, MSOM, POMS

AWARDS AND HONORS

Winner of the “ENRE 2014-2016 Best Publication - Natural Resources” Award, 2017 INFORMS Annual Meeting

Winner of the 2014 POMS Student Paper Competition, Second Place, 2014

Outstanding Student Teacher Award, Naveen Jindal School of Management, The University of Texas at Dallas, TX, 2011-2012

Outstanding Graduate, Beijing Institute of Technology, 2005. Awarded to the top 3% students.

National Scholarship, Beijing Institute of Technology, 2004. Awarded to the top 2% students.

Second Prize of Beijing Mathematical Contest in Modeling, Beijing Institute of Technology, 2003

First-Class Scholarship, Beijing Institute of Technology, 2001-2005. Awarded to the top 3% students.

CONFERENCE PRESENTATIONS

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| 2024 October | INFORMS Annual Conference (Invited Session), <i>Can Producers be Testers? A Peer-to-Peer Testing Framework for Milk Cooperatives</i> |
| 2022 July | The 4th China Workshop on Economics of Information Systems Theory, <i>Robin Hood to the Rescue: Sustainable Revenue-Allocation Schemes for Data Cooperatives</i> . |
| 2021 Oct | INFORMS Annual Conference (Invited Session), <i>Negotiating Government-to-Government Food Importing Contracts: a Nash-Bargaining Framework</i> . |
| 2018 Nov | INFORMS Annual Conference (Invited Session), <i>G2G Contracts for India's Pulses Procurement: Ad-Hoc Contract versus Long-Term Contract</i> . |
| 2018 July | MSOM Sustainable Operations SIG Conference (Invited Session), <i>Shaping the Values of a Milk Cooperative: Theoretical and Practical Considerations</i> . |
| 2017 Oct | INFORMS Annual Meeting (Invited Session), <i>Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries</i> .
Winner of the "ENRE Best Publication – Natural Resources" award. |
| 2017 May | POMS Annual Conference (Invited Session), <i>Shaping the Values of a Milk Cooperative: Theoretical and Practical Considerations</i> . |
| 2016 Nov | INFORMS Annual Meeting (Invited Session), <i>Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries</i> . |
| 2016 May | POMS Annual Conference (Invited Session), <i>Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries</i> . |
| 2015 Nov | INFORMS Annual Meeting (Invited Session), <i>Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries</i> . |
| 2015 May | POMS Annual Conference (Session Chair), <i>Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries</i> . |
| 2014 May | POMS Annual Conference (Invited Session), <i>Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries</i> . |
| 2013 Oct | INFORMS Annual Meeting (Invited Session), <i>Milk Supply Chain: Improving Quality under Competing Intermediaries</i> . |
| 2012 Oct | INFORMS Annual Meeting (Invited Session), <i>Improving the Milk Supply Chain in Developing Countries: Analysis under Competing Intermediaries</i> . |
| 2011 Nov | INFORMS Annual Meeting (Invited Session), <i>Recommendations for Improving the Milk Supply Chain: A Game-Theoretic Approach</i> . |
| 2010 Nov | INFORMS Annual Meeting (Invited Session), <i>Analysis of the Product-Line Extension Problem</i> . |

INVITED SEMINAR PRESENTATIONS

- 2018 Mar University of Florida. *Shaping the Values of a Milk Cooperative: Theoretical and Practical Considerations.*
- 2018 Mar Rutgers University – Camden. *Shaping the Values of a Milk Cooperative: Theoretical and Practical Considerations.*
- 2013 Nov University of Delaware. *Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries.*
- 2013 Oct University of Utah. *Milking the Quality Test: Improving the Milk Supply Chain under Competing Collection Intermediaries.*