



“Influential research and fresh knowledge creation are the trademarks of any top doctoral program and business school, and Olin’s doctoral program is both pioneering and extremely successful at it.”

—Panos Kouvelis, Emerson Distinguished Professor of Operations and Manufacturing Management and Director of the Boeing Center for Supply Chain Innovation



Olin faculty members in Operations and Manufacturing Management (OMM) are distinguished by strong analytical backgrounds in operations research, management science, industrial engineering, and economics. The program emphasizes the use of modeling techniques to understand manufacturing and service environments, in areas of research ranging from supply chain management, operations strategy, and revenue management to supply contracts and effective uses of information technology for process reengineering. Research frequently focuses on areas with strategic and tactical implications and involves mathematical models that help analyze problems and provide insight into complex scenarios.

The Boeing Center for Supply Chain Innovation (BCSCI) creates value through collaborative research in technology, information, and supply chain management. The focus is on the proprietary challenges member companies face. BCSCI undertakes a number of custom projects annually for members. Teams of PhD and other Olin students tackle these projects, working closely with Olin faculty to find solutions that build a competitive advantage through strategic supply chain management and technology-based process reengineering. BCSCI also sponsors seminars, conferences, and other programs to address critical issues, and bring to light the latest thinking in the information, technology, and supply chain fields.

Collaborative Research—OMM Faculty and PhD Students

Working Papers:

- Dong, L., Guo, X.*, Turcic, D. Selling a Product Line Through a Retailer When Demand Is Stochastic: Analysis of Price-Only Contracts.
- Duo, S.*, Kouvelis, P. Who Compensates the Sales Agent?
- Jung, S.H.*, Kouvelis, P. Rationale for Supply Partnership with Downstream Rival: Information Asymmetry and Dual Sourcing.
- Kouvelis, P., Xiao, G.*, Yang, N. On the Properties of Yield Distributions in Random Yield Problems.

Published Papers:

- Kouvelis, P., Xiao, Y.*, Yang, N. (2015). Competition in Pharmaceutical Supply Chain: Formulary Design and Drug Pricing. *Manufacturing and Service Operations Management*, 17(4), 511-526.
- Turcic, D., Kouvelis, P., Bolandifar, E.* (2015). Hedging Commodity Procurement in a Bilateral Supply Chain. *Manufacturing and Service Operations Management*, 17(2), 221-235.
- Dong, L., Kouvelis, P., Wu, X.* (2014). The Value of Operational Flexibility in the Presence of Input and Output Uncertainties with Oil Refining Applications. *Management Science*, 60(12), 2908-2926.
- Wu, X.*, Zhang, F. (2014). Home or Overseas? An Analysis of Sourcing Strategies under Competition. *Management Science*, 60(5), 1223-1240.



CO-CHAIR: Lingxiu Dong

Professor of Operations and Manufacturing Management
PhD, Stanford University

Research interests: operations management, production and distribution systems, supply chain management, information in supply chains



CO-CHAIR: Fuqiang Zhang

Professor of Operations and Manufacturing Management
PhD, University of Pennsylvania

Research interests: supply chain management, consumer behavior in operations management, inventory and production planning, game theory, incentives and mechanism design, energy and environment

Kaitlin Daniels

Assistant Professor of Operations and Manufacturing Management
PhD, University of Pennsylvania

Research interests: gig economy, contract theory, service operations

Amr Farahat

Assistant Professor of Operations and Manufacturing Management
PhD, Massachusetts Institute of Technology

Research interests: pricing and revenue management, supply chain management and competition, game theory, optimization applications

Jake Feldman

Assistant Professor of Operations and Manufacturing Management
PhD, Cornell University

Research interests: assortment optimization, customer choice models, revenue management, approximation algorithms, machine learning

Panos Kouvelis

Emerson Distinguished Professor of Operations and Manufacturing Management and Director of the Boeing Center for Supply Chain Innovation
PhD, Stanford University

Research interests: global supply chain management, operations and finance interfaces, risk management in supply chains, commodity risk management, operations strategy, managing the innovation process, marketing/manufacturing interfaces, product line design, lean manufacturing, inventory control, operations planning, project management, cyclic scheduling, manufacturing system design, management science and optimization

Iva Rashkova

Assistant Professor of Operations & Manufacturing Management
PhD 2015, London Business School

Research interests: financial considerations for inventory management, medical shortages, developing countries

Danko Turcic

Associate Professor of Operations and Manufacturing Management
PhD, Case Western Reserve University

Research interests: supply chain management, supply chain risk management

Dennis Zhang

Assistant Professor of Operations and Manufacturing Management
PhD, Northwestern University

Research interests: data science, service operations, healthcare operations, social networks, behavioral operations and economics