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.

PhD in Operations and Manufacturing Management

“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

Collaborative Research—OMM Faculty and PhD Students

Working Papers:
• Duo, S., Kouvelis, P., Who Compensates the Sales Agent?
• Turcic, D., Guo, X.*, Kouvelis, P., Omni-Channel Retailing with Operational Frictions.
• Turcic, D., Xiao, G.*, Kouvelis, P., Make-to-Order versus Make-to-Stock When Firms Compete under Fluctuating Input Cost.
• Zhang, F., Xiao, G.*, Yu, Y.*, The Impact of Capacity Constraint and Consumer Heterogeneity on Service Differentiation.

Published Papers:

*Indicates current or former student
Published Papers Continued:


Operations and Manufacturing Management Faculty

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

Kaitlin Daniels, Assistant Professor of Operations and Manufacturing Management
PhD, University of Pennsylvania
Research interests: gig economy, contract theory, service operations

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

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

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 and Manufacturing Management
PhD, London Business School
Research interests: financial considerations for inventory management, medical shortages, developing countries

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