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

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:
- Duo, S.*, Kouvelis, P. Who Compensates the Sales Agent?

Published Papers:

*Indicates current or former student
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