

Michael K. Lim

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ACADEMIC APPOINTMENT

College of Business, University of Illinois

Associate Professor (with tenure), Department of Business Administration, 2016 – present

Assistant Professor, Department of Business Administration, 2009 – 2016

Computational Science & Engineering, University of Illinois

Faculty Affiliate, 2012 – present

EDUCATION

Ph.D., Industrial Engineering & Management Sciences, Northwestern University, 2009

Dissertation: Supply Chain Network Design in the Presence of Disruption Risks

Advisors: Sunil Chopra (Kellogg, Northwestern) and Mark S. Daskin (IOE, Michigan)

M.S., Industrial Engineering & Management Sciences, Northwestern University, 2006

B.S., Industrial & Systems Engineering, Yonsei University, Seoul, Korea, 2004

PAST EMPLOYMENTS

Analyst (summer intern), Motorola, Libertyville, IL, 2005

Analyst, IT Consulting, IBM, Seoul, Korea, 2004

Sergeant (military service), Republic of Korea Air Force, Osan, Korea, 1999 – 2001

RESEARCH INTERESTS

- Supply chain and logistics management; Network optimization; Network design and facility location
- Sustainable operations management (green technology adoption; electric vehicles; eco-labels)
- Environmentally-responsible operations management (renewable energy; natural resource; water)

PUBLICATIONS

- Proximity and Agility Considerations in Supply Chain
Management Science, forthcoming, 2016. with H.Y. Mak & Z.J.M. Shen
- A Continuum Approximation Approach to the Dynamic Facility Location Problem
Transportation Science, forthcoming, 2016. with X. Wang & Y. Ouyang
- Municipal Groundwater Management: Optimal Allocation and Control of a Renewable Natural Resource
Production & Operations Management, 24(9), 2015. with K. Murali & N.C. Petruzzi
- Karthik Murali: Finalist, 2014 MSOM Student Paper Competition;
Winner, 2014 POMS Sustainable Operations Management Best Student Paper Competition
- R&D Outsourcing in an Innovation-driven Supply Chain
Operations Research Letters, 43(1), 2015. with K. Kim
- Toward Mass Adoption of Electric Vehicles: Impacts of the Range and Resale Anxieties
Manufacturing & Service Operations Management, 17(1), 2015. with H.Y. Mak & Y. Rong
- Infrastructure Deployment under Uncertainties and Competition: The Biofuel Industry Case
Transportation Research Part B: Methodology, 78, 2015. with X. Wang & Y. Ouyang

- Alternative Fuel Station Location Model with Demand Learning
Annals of Operations Research, 230(1), 2015. with S.F. Bhatti & H.Y. Mak
- Facility Location Decisions with Random Disruptions and Imperfect Estimation
Manufacturing & Service Operations Management, 15(2), 2013. with A. Bassamboo, S. Chopra & M.S. Daskin
- A Facility Reliability Problem: Formulation, Properties and Algorithm
Naval Research Logistics, 57(1), 2010. with M.S. Daskin, A. Bassamboo & S. Chopra
- The Effect of Forecasting and Information Sharing in SCM for Multi-generation Products
European Journal of Operational Research, 186(1), 2008. with S. Sohn
- Hierarchical Forecasting based on AR-GARCH Model in a Coherent Structure
European Journal of Operational Research, 176(2), 2007. with S. Sohn

Book Chapter

- Biofuel Supply Chain Network Design and Operations
Invited book chapter, 2016. with Y. Ouyang
- *Environmentally Responsible Supply Chains*, Edited by Atalay Atas, Springer

WORKING PAPERS

- The Effects of Ecolabels and Environmental Regulation on Green Product Development
Under review, 2016. with K. Murali, N.C. Petruzzi
- Promoting Clean Technology Products: To Subsidize Consumers or Manufacturer?
Under review, 2016. with G. Ma, H.Y. Mak & Z. Wan
- *Guangrui Ma: Second prize, 2014 POMS-HK Best Student Paper Competition*
- Food-Energy-Environment Trilemma: Policy Impacts on Farmland Use and Biofuel Industry Development
Under revision for 2nd round, 2016. with X. Wang & Y. Ouyang
- Flexibility and Fragility: Supply Chain Network Design with Disruption Risks
Currently Dormant, 2011. with A. Bassamboo, S. Chopra & M.S. Daskin

Work in Progress

- Optimizing Water Pollution Monitoring Systems: Regulation Policy Guidelines for Curbing Nutrient Pollution. 2016.
- Short-term and Long-term Risk-aversions in Biofuel Supply Chain Development. 2016.

TEACHING

University of Illinois

- BADM 375 Business Process Management (Operations Management), UG
- BADM 378 Logistics Management, UG
- BADM 460 Business Process Modeling, UG - Technology and Management track
- BADM 566 Supply Chain Management, MS
- BADM 567 Business Process Management (Operations Management), MS
- BADM 573 Quantitative Analysis Modeling, Warsaw-Illinois Executive MBA Program, EMBA
- MBA 505 Operations Analysis, MBA

Northwestern University

- IEMS 201 Introduction to Statistics, UG

PRESENTATIONS

Invited Seminars and Workshops

- Food, Energy and Environment Trilemma: Resolving Farmland Use for a Sustainable Bioeconomy
North Carolina State University (Poole College of Management), Raleigh, NC, Feb 2016
University of Oxford (Saïd Business School), Oxford, UK, Oct 2015
University College London (UCL School of Management), London, UK, Oct 2015
Indiana University (Kelley School of Business), Bloomington, IN, Oct 2015
- Biofuel Supply Chain Network Design and Operations
Georgia Institute of Technology (Scheller College of Business, Center for Sustainable Business), Atlanta, GA, Feb 2015
- Perspectives on Supply Chain Resiliency with Process Flexibility
Northwestern University (Transportation Center), Evanston, IL, Nov 2014
- Toward Mass Adoption of Electric Vehicles: Impacts of the Range and Resale Anxieties
University of Illinois (Civil & Environmental Engineering), Urbana-Champaign, IL, Dec 2013
Korean Advanced Institute of Science and Technology (Business), Seoul, Korea, Jun 2013
City University of Hong Kong (Business), Hong Kong, Jun 2013
Yonsei University (Business), Seoul, Korea, Jun 2012
- Competition among Food, Energy and Environment: Sustainable Biofuel Supply Chain Design
Hong Kong University of Science and Technology (IELM), Hong Kong, May 2012
- Flexibility and Fragility: Supply Chain Network Design with Disruption Risks
Northwestern University (Transportation Center), Evanston, IL, May 2009
University of Illinois (Business Administration), Urbana-Champaign, IL, Nov 2008
Northwestern University (Joint Kellogg-McCormick Seminar), Evanston, IL, Oct 2008

Conferences

- Optimizing Water Pollution Monitoring Systems: Regulation Policy Guideline for Curbing Nutrient Pollution
INFORMS Annual Meeting, Nashville, TN, 2016 (scheduled)
- Food, Energy and Environment Trilemma: Resolving Farmland Use for a Sustainable Bioeconomy
INFORMS Annual Meeting, Philadelphia, PA, 2015
INFORMS International Meeting, Montreal, Canada, 2015
- The impact of ecolabels: the role of ecolabeling agencies and credibility
POMS Annual Conference, Orlando, FL, 2016 *
INFORMS Annual Meeting, Philadelphia, PA, 2015 *
POMS Annual Conference, Washington, D.C., 2015 *
INFORMS Annual Meeting, San Francisco, CA, 2014 *
- Promoting Clean Technology Products: To Subsidize Consumers or Manufacturer?
INFORMS Annual Meeting, Philadelphia, PA, 2015 *
INFORMS Annual Meeting, San Francisco, CA, 2014 *
- Proximity and Agility Considerations in Supply Chain
MSOM Conference, Univ. of Washington, Seattle, WA, 2014 *
INFORMS Annual Meeting, San Francisco, CA, 2014 *
- Coping with Uncertainties in Biofuel Infrastructure Deployment
INFORMS Annual Meeting, San Francisco, CA, 2014
- Municipal Groundwater Management: Optimal Allocation and Control of a Renewable Natural Resource
INFORMS Annual Meeting, San Francisco, CA, 2014 *
POMS Annual Conference, Atlanta, GA, 2014 *
INFORMS Annual Meeting, Minneapolis, MN, 2013 *
- Toward Mass Adoption of Electric Vehicles: Impacts of the Range and Resale Anxieties
INFORMS Annual Meeting, San Francisco, CA, 2014 *
INFORMS Annual Meeting, Minneapolis, MN, 2013
MSOM Conference, INSEAD, France, 2013
POMS Annual Conference, Denver, CO, 2013

- A Continuum Approximation Approach to the Dynamic Facility Location Problem
INFORMS Annual Meeting, San Francisco, CA, 2014 *
INFORMS Annual Meeting, Minneapolis, MN, 2013 *
- Competition among Food, Energy and Environment: Sustainable Biofuel Supply Chain Design
INFORMS Annual Meeting, Minneapolis, MN, 2013
POMS Annual Conference, Chicago, IL, 2012 *
INFORMS International Meeting, Beijing, China, 2012
INFORMS Annual Meeting, Phoenix, AZ, 2012 *
- Dynamic Location Problem for Electric Vehicle Network
INFORMS Annual Meeting, Charlotte, NC, 2011
- Dynamic Covering Model with Market Learning
POMS Annual Conference, Chicago, IL, 2012
ECCO XXIV (24th European Chapter on Combinatorial Optimization), Amsterdam, Netherlands, 2011
INFORMS Annual Meeting, Charlotte, NC, 2011
- New Product Introduction Strategy
INFORMS Annual Meeting, Austin, TX, 2010
- Defender/interdictor Location Model for Protecting Critical Infrastructures
INFORMS Annual Meeting, San Diego, CA, 2009
- Flexibility and Fragility: Supply Chain Network Design with Disruption Risks
INFORMS Annual Meeting, Washington, D.C., 2008
INFORMS Annual Meeting, Seattle, WA, 2007
- Facility Location Decisions with Random Disruption and Imperfect Information
INFORMS Annual Meeting, Washington, D.C., 2008
INFORMS Annual Meeting, Seattle, WA, 2007
INFORMS Midwest Regional Conference, Evanston, IL, 2007
- A Facility Reliability Problem: Formulation, Properties and Algorithm
ISOLDE XI Conference, Santa Barbara, CA, 2008
INFORMS Annual Meeting, Seattle, WA, 2007
INFORMS Annual Meeting, Pittsburgh, PA, 2006
(* presented by students or co-authors)

AWARDS AND GRANTS

Awards and Honors

- Finalist, College of Business Alumni Association Award, Excellence in Undergraduate Teaching, 2015
- List of Excellent Teachers, University of Illinois, 2010, 2011, 2012, 2013, 2014, 2015, 2016
- Scholar's Travel Fund Award, Office of the Vice Chancellor for Research, University of Illinois, 2009-2016
- First prize, INFORMS Energy, Natural Resources, and the Environment Young Researcher Prize, 2014
- SOLA-AIR Dissertation Award, Honorable mention, INFORMS, 2009
- Transportation Center Dissertation Fellowship, Northwestern University, 2008-2009
- Delta Nu Alpha Foundation Scholarship, 2008
- INFORMS Doctoral Colloquium, 2007
- Industrial Statistics Laboratory Scholarship, Yonsei University, 2003-2004
- Honor Student Scholarship, Yonsei University, 2002-2004

Research Grants

- U.S. Department of Agriculture, A New Approach to Producing Biomass Feedstocks from Marginal Land and Reclaiming Salt Impacted Soils in the North Central USA (with Boe, Gonzalez, Johnson, Lee, Wu), 2013-2015 (\$156,000)
- Research Grant Award, Campus Research Board, University of Illinois, 2011-2012

- Summer Research Assistantship Funding, College of Business, University of Illinois, 2014
- Departmental Junior Faculty Council Research Grant, University of Illinois, 2014
- Research Grant Award, Center for International Business Education and Research, University of Illinois, 2011

GRADUATE STUDENTS

Ph.D. students

- Karthik Murali (Business Administration, University of Illinois)
Co-chair Ph.D. Dissertation Committee (with Nicholas C. Petruzzi), 2015
Dissertation: *Three Essays in Sustainable Operations Management with Implications for the Triple Bottom Line*
Placement: *University of Alabama, Operations Management*
(* wrote two papers as a co-author)
- Xin Wang (Civil & Environmental Engineering, University of Illinois), Dissertation Committee Member, 2015
Placement: *University of Wisconsin at Madison, Industrial & Systems Engineering*
(* wrote three papers as a co-author)
- Tianqin Shi (Business Administration, University of Illinois), Dissertation Committee Member, 2015
Placement: *San Jose State University, Operations Management*
- Guangrui Ma (IELM, HKUST), Dissertation Committee Member, 2014
Placement: *Tianjin University, Operations Management*
(* wrote one paper as a co-author)

M.S. students

- Mengye Chen, M.S. Thesis Committee Member
Graduation May 2014, Agricultural and Consumer Economics, University of Illinois
- Shahzad Bhatti, M.S. Thesis Committee Co-chair (with Xin Chen)
Graduation Dec. 2011, Industrial and Enterprise Systems Engineering, University of Illinois
(* wrote one paper as a co-author)

SERVICES

Professional Services

- Mini Conference co-organizer (with Tim Kraft), POMS College of Sustainable Operations, 2016
- Judge, POMS College of Supply Chain Management Student Paper Competition, 2016
- Judge, POMS College of Sustainable Operations Student Paper Competition, 2015, 2016
- Reviewer, MSOM Sustainable Operations SIG (Sustainable Operations Management) Meeting, 2015, 2016
- Judge, 2013 Best Publication Award for INFORMS ENRE (Energy, Natural Resources, and the Environment)
- Session Chair, INFORMS Annual Meeting, 2010, 2011, 2012, 2013, 2014, 2015, 2016
- Session Chair, POMS Annual Conference, 2014, 2015, 2016
- Professional Memberships: INFORMS, MSOM, POMS
- Ad hoc referee: *Operations Research, Management Science, Manufacturing & Service Operations Management, Production & Operations Management, Annals of Operations Research, IIE Transactions, European Journal of Operational Research, Naval Research Logistics, Socio-Economic Planning Sciences, Transportation Research-Part B/Part C/Part E*

University Services

- Tenure-Track Faculty Search Co-chair, Department of Business Administration, 2016-Present
- Research Policy Committee, Department of Business Administration, 2016-Present
- Undergraduate Studies Committee, Department of Business Administration, 2015-Present
- Proseminar Coordinator, Operations Management, 2014-2016

- Tenure-track Faculty Search Committee, Management Science/Process Management, 2012, 2014, 2015, 2016
- Specialized Faculty (non-tenure track) Search Committee, Department of Business Administration, 2016
- Junior Faculty Council, Department of Business Administration, 2013-2015
- Ph.D. Program Coordinator, Management Science/Process Management, 2011-2013
- Graduate Studies Committee, Department of Business Administration, 2011-2013
- Research grant proposal reviewer for Junior Faculty Counsel, 2013-2015
- Research grant proposal reviewer for Campus Research Board, 2010-2015
- Undergraduate research advisor for James Scholar Program, 2011-2012