

LIAN QI

Department of Supply Chain Management
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RESEARCH AND TEACHING INTERESTS

Supply Chain Design and Management, Production and Inventory Planning and Control, Operations Management, Simulation, Design and Analysis of Optimization Algorithms, Enterprise Resource Planning

ACADEMIC POSITIONS

Department of Supply Chain Management, Rutgers Business School, Rutgers University

Department Chair	Jul 2017- present
SAP Program Coordinator	Jan 2009-present
Associate Professor	Jul 2016-present
Department Vice Chair	Jul 2016-Jun 2017
Supply Chain Management Undergraduate Program Academic Coordinator at Newark	Jan 2010-Jun 2016
Assistant Professor	Sep 2009-Jun 2016
Visiting Assistant Professor	Sep 2008-Jun 2009

Department of Information Systems, Business Statistics and Operations Management, Hong Kong University of Science and Technology

Visiting Assistant Professor	Dec 2013-July 2014
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Department of Business Administration, University of Missouri - Rolla

Assistant Professor	Aug 2006-Jul 2009
Director, Center for ERP	Aug 2007-Jul 2008

Department of Industrial & Systems Engineering, University of Florida

Part-time Lecturer	Jan 2005-Aug 2005
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EDUCATION

Ph. D.	Department of Industrial & Systems Engineering University of Florida, Gainesville, FL Minor: Department of Statistics, University of Florida, Gainesville, FL	Aug 2006
M. S.	Department of Industrial & Systems Engineering University of Florida, Gainesville, FL	Aug 2004
M. Eng.	Department of Mechanical Engineering Zhejiang University, Hangzhou, China	Apr 2001
B. S.	Department of Management Science Fudan University, Shanghai, China	Jul 1998

INDUSTRIAL EXPERIENCE

SAP, China

Certified Production Planning & Materials Management consultant	Apr 2001-Aug 2002
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REFEREED JOURNAL PAPERS

- Y. Wang, J. Yang, and **Lian Qi*** (2017). “A Game-theoretic Model for the Role of Reputation Feedback Systems in Peer-to-peer Commerce”. *International Journal of Production Economics*, forthcoming.
- Y. Gu, **Lian Qi***, and J. Wang (2017). “Breaking the Monolith: Strategy, Variety, and Performance of Enterprise Information Systems”. *Journal of Systems Science and Systems Engineering*, forthcoming.
- **Lian Qi**, L.Y. Chu, and R. Chen (2016). “Quality Provision with Heterogeneous Consumer Reservation Utilities”. *Production and Operations Management*, 25 (5), 883-901.
- L. Lei, M. Pinedo, **Lian Qi***, S. Wang, and J. Yang (2015). “Personnel Scheduling and Supplies Provisioning in Emergency Relief Operations”. *Annals of Operations Research*, 235, 487-515.
- **Lian Qi*** and K. Lee (2015). “Supply Chain Risk Mitigations with Expedited Shipping”. *Omega, the International Journal of Management Science*, 57, 98-113.
- **Lian Qi***, J. Shi, and X. Xu (2015). “Supplier Competition and its Impact on Firm's Sourcing Strategy”. *Omega, the International Journal of Management Science*, 55, 91-110.
- S. Gao, **Lian Qi**, and L. Lei (2015). “Integrated Batch Production and Distribution Scheduling with Limited Vehicle Capacity”. *International Journal of Production Economics*, 160, 13-25.
- **Lian Qi*** and J. Sawhill (2014). “How durable should durable Products be made under different Scenarios of technological advance?”. *International Journal of Production Economics*, 156, 75-82.
- **Lian Qi*** (2013). “A Continuous-Review Inventory Model with Random Disruptions at the Primary Supplier”. *European Journal of Operational Research*, 225 (1), 59-74.
- Z. Sargut and **Lian Qi*** (2012). “Analysis of a Two-party Supply Chain with Random Disruptions”. *Operations Research Letters*, 40 (2), 114-122.
- **Lian Qi***, Z.M. Shen, and L. Snyder (2010). “The Effect of Supply Uncertainty on Supply Chain Design Decisions”. *Transportation Science*, 44 (2), 274-289.
- **Lian Qi** and Z.M. Shen (2010). “Worst-case Analysis of Demand Point Aggregation for the Euclidean p -median Problem”. *European Journal of Operational Research*, 202 (2), 434-443.
- **Lian Qi***, Z.M. Shen, and L. Snyder (2009). “A Continuous-Review Inventory Model with Disruptions at Both Supplier and Retailer”. *Production and Operations Management*, 18 (5), 516-532.
- **Lian Qi** and Z.M. Shen (2007). “A Supply Chain Design Model with Unreliable Supply”. *Naval Research Logistics*, 54 (8), 829-844.
- Z.M. Shen and **Lian Qi** (2007). “Incorporating Inventory and Routing Costs in Strategic Location Models”. *European Journal of Operational Research*, 179 (2), 372-389.

* Corresponding author.

REFEREED BOOK CHAPTERS

- L. Lei, R. Oppenheim, **Lian Qi**, H. Dong, K. Lee, and S. Wang (2015). “Integrated Production/Distribution/Routing Planning for Supply Chain Networks: A Review”. in *Supply Chain Management and Logistics: Innovative Strategies and Practical Solutions*, Z. Liang, W.A. Chaovalitwongse, & L. Shi (eds.), Chapter 3, 43–86, CRC / Taylor & Francis, 2015.
- S.H. Liaquat, P. Srivastava, and **Lian Qi*** (2012). “Simulation-based Studies on Dynamic Sourcing of Retailers under Random Supply Disruptions”. In *Decision Making in Service Industries: A Practical Approach*, J. Faulin, A. Juan, S. Grasman, & M. Fry (eds.), Chapter 2, 37-57, CRC / Taylor & Francis, 2012.

SUBMITTED MANUSCRIPTS

- **Lian Qi***, Z.M. Shen, Y. Xu, and X. Chen (2016). “The Impacts of Trade Credit on Retailers' Growth and Procurement Plans, and Supply Chain Profitability”. Submitted for publication.

WORKING PAPERS

- “Repeated Prisoner's Dilemma with Score Updating in Online Trading”, with J. Yang and Y. Wang.
- “Optimal Capacity Sharing on a B2B Market using Double Auction”, with Z. Sargut.

REFEREED CONFERENCE PROCEEDINGS

- J. Deng, **Lian Qi**, and Z. Liu. (2010). “Dynamic Inventory Management under Debt Financing”. *Proceedings of the 2010 American Society for Engineering Management (ASEM) National Conference*, Fayetteville, AR, 2010.
- **Lian Qi**, Z.M. Shen, and L. Snyder (2006). “The Effect of Supply Uncertainty on Supply Chain Design Decisions”. *Proceedings of the 2006 Institute of Industrial Engineers (IIE) Annual Conference*, Orlando, FL, 2006. **Winner of the best paper award in the area of Operations Research.**
- **Lian Qi** and Z.M. Shen (2005). “A Supply Chain Design Model with Unreliable Supply”. *Proceedings of the 2005 Institute of Industrial Engineers (IIE) Annual Conference*, Atlanta, GA, 2005.
- H. Zhan, **Lian Qi**, X. Gu, and Z. Wu (1999). “Research on the Method of Self-organization of Enterprise Models”. *Proceedings of Asia Pacific Decision Sciences Institute Conference*, Shanghai, China, 1999, 491-493.

RESEARCH PROJECTS

Rutgers-Newark Chancellor’s Seed Grant Program, \$50,000, PI with Alok Baveja, John Impellizzeri, Kevin Lyons, and Tom York 2016-2018

Rutgers Business School Decanal Research Grant, \$3,000/year for three years, PI 2015-2018

Rutgers University Research Council Grant #202243, \$1,125, PI 2015-2016

Rutgers Business School Decanal Research Grant, \$5,000, PI 2014-2015

Rutgers Business School Research Resources Committee Grant, \$2,161.60 + \$1,600, PI 2012-2014

Department of Homeland Security (DHS) Long Range Broad Agency Announcement (LR BAA) 10-01 funded project: *Optimal Preparedness and Response to Pharmaceutical Supply Chain Emergencies* (co-PI with Sean Handley, PI Lei Lei, and Benjamin Melamed), \$266,519.00 2011-2012

- Participate in the development and validation of the Optimal Response Planning System (ORPS).
- Responsible for the development of the Risk Mitigation Analysis Tool in ORPS.

MST-Monsanto Partnership (co-PI with PI Bih-Ru Lea, and Vincent Yu), \$14,272 2007-2008

- Investigate Monsanto’s ERP and SCM systems.
- Provide user training for Monsanto’s employees on SAP ECC, SAP SCM and SAP Solution Manager.

Department Research, Department of Business Administration, University of Missouri - Rolla: *Supply Chain Design under Stochastic Supply Disruptions* (PI) 2006-2008

- Study supply chain design problems with stochastic disruptions at multi-echelons.
- Analyze the impacts of random disruptions at different echelons on supply chain design decisions.
- Conduct numerical and simulation experiments to study and compare single sourcing and multiple sourcing strategies.

CONFERENCE PRESENTATIONS

- “The Impact of Trade Credit on Supply Chain Profitability and Risk”, Annual Conference of the Chinese Scholars Association of Management Science and Engineering, Hefei, China, 2016
- “Personnel Scheduling and Supplies Provisioning in Emergency Relief Operations”, INFORMS Annual Meeting, Philadelphia, PA, 2015.
- “Quality Provision with Heterogeneous Consumer Reservation Utilities”, INFORMS Annual Meeting, San Francisco, CA, 2014.
- “Making Quality Decisions in Tough Economic Times”, INFORMS Annual Meeting, Phoenix, AZ, 2012.
- “Risk Mitigation Studies for Pharmaceutical Supply Chains”, INFORMS International Conference, Beijing, China, 2012.
- “Optimal Responses to Pharmaceutical Supply Chain Emergencies”, INFORMS International Conference, Beijing, China, 2012.
- “The Core Position of the Accounting Model in an ERP System”, the 20th Annual Conference on Pacific Basin Finance, Economics, Accounting, and Management, New Brunswick, NJ, 2012.
- “How Durable Should Manufacturers Make Their Durable Products”, INFORMS Annual Meeting, Charlotte, NC, 2011.
- “Supplier Competition under the Dual-Sourcing Setting”, INFORMS Annual Meeting, Austin, TX, 2010.
- “Dynamic Inventory Management under Debt Financing”, American Society for Engineering Management (ASEM) National Conference, Fayetteville, AR, 2010.
- “A Continuous-review Inventory Model with Dual-sourcing Strategy and Random Disruptions”, INFORMS Annual Meeting, San Diego, CA, 2009.
- “Multiple-Sourcing Strategy under Random Supply Disruptions”, IIE Annual Conference, Vancouver, British Columbia, Canada, 2008.
- “Modeling and Analysis of Inventory Management Problems under GCPP process with Financial Constraints”, IIE Annual Conference, Vancouver, British Columbia, Canada, 2008.
- “Retailer Location and Customer Demand Allocation Decisions under Random Supply Disruptions”, INFORMS Annual Meeting, Seattle, WA, 2007.
- “A Multiple and Dynamic Sourcing Problem for a Supply Chain with Supply Disruptions”, IIE Annual Conference, Nashville, TN, 2007.
- “Supply Chain Design under Stochastic Supply Disruptions”, Annual Production & Operations Management Society Conference, Dallas, TX, 2007.
- “Numerical and Simulation Studies on a Supply Chain Design Problem with Supply Disruptions”, INFORMS Annual Meeting, Pittsburgh, PA, 2006.
- “The Effect of Supply Uncertainty on the Supply Chain Design Decisions”, IIE Annual Conference, Orlando, FL, 2006.
- “A Continuous-Review Inventory Model with Disruptions of Both Supplier and Retailer”, INFORMS Annual Meeting, San Francisco, CA, 2005.
- “A Supply Chain Design Model with Unreliable Supply”, IIE Annual Conference, Atlanta, GA, 2005.
- “A Reliable Location-Inventory Model”, INFORMS Annual Meeting, Denver, CO, 2004.
- “Probabilistic Analysis of Aggregation for the Euclidean-Distance n-Median Problem”, INFORMS Annual Meeting, Denver, CO, 2004.
- “An Integrated Supply Chain Design Model: with Inventory, Location, and Distribution Decisions”, INFORMS Annual Meeting, Atlanta, GA, 2003.

PRESENTATIONS AT UNIVERSITY RESEARCH SEMINARS

- “A Game-theoretic Model for the Role of Reputation Feedback Systems in Peer-to-peer Commerce”, Dalian University of Technology, Dalian, China, June 2017.
- “The Value of Trade Credit under Risk Controls”, Tsinghua University, Beijing, China, December 2016.
- “Personnel Scheduling and Supplies Provisioning in Emergency Relief Operations”, Zhejiang University, Hangzhou, China, December 2015.
- “Quality provision under a recession: Adapting to a changing economic environment”, Hong Kong University of Science and Technology, August 2013.
- “Risk Mitigation Studies for Pharmaceutical Supply Chains”, Zhejiang University, Hangzhou, China, July 2012.
- “Supplier Competition under the Dual-Sourcing Setting”, Shanghai Jiaotong University, Shanghai, China; Zhejiang University, Hangzhou, China, December 2010.
- “Worst-case Analysis of Demand Point Aggregation for the Euclidean p -Median Problem”, Lehigh University, Bethlehem, PA, November 2008.
- “A Continuous-Review Inventory Model with Dual-Sourcing Strategy and Random Disruptions at the Primary Supplier”, Rutgers University, Newark, NJ, November 2008.
- “A Continuous-Review Inventory Model with Disruptions at Both Supplier and Retailer”, Rutgers University, Newark, NJ, February 2008; Fudan University, Shanghai, China, May 2008.
- “The Effect of Supply Uncertainty on Supply Chain Design Decisions”, University of Missouri – Rolla, Rolla, MO; Kent State University, Kent, OH, February 2006.
- “A Supply Chain Design Model with Unreliable Supply”, University of Florida, Gainesville, FL, March 2005.
- “Probabilistic Analysis of Aggregation for the Euclidean-Distance n -Median Problem”, University of Florida, Gainesville, FL, October 2004.

TEACHING EXPERIENCE**Department of Supply Chain Management, Rutgers University (Graduate courses)**

<i>22:799:580, Operations Analysis</i>	Spring 2016
<i>22:799:659, Supply Chain Solution with ERP/SAP I</i>	Fall 2008, Spring and Fall 2009, Spring and Fall 2010, Spring 2011, Spring and Fall 2012, Spring and Fall 2013, Fall 2014, Spring and Fall 2015, Spring and Fall 2016, Spring and Fall 2017
<i>22:799:660, Supply Chain Solution with ERP/SAP II</i>	Spring 2009, Spring and Fall 2010, Spring 2011, Spring and Fall 2012, Spring and Fall 2013, Fall 2014, Spring and Fall 2015, Spring 2016, Spring 2017
<i>22:799:634, SAP Certification: Integration of Business Processes</i>	Summer 2016, Summer 2017
<i>22:799:663, Business Forecasting for Value Chains</i>	Summer 2010
<i>26:799:660, Supply Chain Modeling and Algorithms</i>	Spring 2016

Department of Information Systems, Business Statistics and Operations Management, Hong Kong University of Science and Technology (Undergraduate courses)

<i>ISOM 2700, Operations Management</i>	Spring 2014
<i>ISOM 4740, Enterprise Resource Management</i>	Winter 2014

Department of Business Administration, Missouri University of Science & Technology (Graduate courses)

<i>ERP 346, ERP Systems Design and Implementation</i>	Spring and Fall 2007, Spring 2008
<i>ERP 347, Supply Chain Management Systems</i>	Fall 2007, Summer 2008
<i>BUS 424, MBA Business Core – Implementation</i>	Spring 2007, Spring 2008
<i>BUS 426, MBA Business Core – Capstone</i>	Spring 2008

Department of Industrial & Systems Engineering, University of Florida (Undergraduate courses)

<i>EIN 4365, Facilities Planning & Material Handling</i>	Summer 2005
<i>ESI 4523, Industrial Systems Simulation</i>	Spring 2005

PROFESSIONAL ACTIVITIES

- Associate Editor: *Asia-Pacific Journal of Operational Research*, 2013-present
- Editorial board member: *Mechanical & Electrical Engineering*, 2010-present
- Reviewed articles for
Annals of Operations Research, Computers & Industrial Engineering, Decision Sciences, European Journal of Operational Research, IEEE Transactions on Automation Science and Engineering, IIE Transactions, International Journal of Production Economics, Journal of Global optimization, Journal of Industrial and Management Optimization, Journal of Scheduling, Logistics and Transportation Review, Manufacturing and Service Operations Management, Methodology and Computing in Applied Probability, Naval Research Logistics, Omega, The International Journal of Management Science, Operations Research, Optimization and Engineering, Production and Operations Management, Transportation Science, Proceedings of the Institute of Industrial Engineers Annual Conference (2005, 2006, 2007), Proceedings of the 2007 World Conference on Transport Research Society, Wiley Encyclopedia of Operations Research and Management Science
- Reviewed book: Simchi-Levi, D., Wu, D., and Shen, Z. M. (Eds.). “Hand Book of Quantitative Supply Chain Analysis: Modeling in the E-Business Era”. ISBN: 1-4020-7952-4
- Grant proposal reviewer for Research Grants Council of Hong Kong in 2016 and 2017
- 2007 and 2008 Industrial Engineering Research Conference invited session organization
- 2010 - 2014 Industrial and Systems Engineering Research Conference (before 2011 known as Industrial Engineering Research Conference) Organization Committee, Production Planning and Scheduling track chair
- 2007 - 2010 Institute for Operations Research and Management Science (INFORMS) Annual Conference invited session organization
- 2012 and 2016 Institute for Operations Research and Management Science (INFORMS) International Conference invited session organization
- 2016 annual conference of the Chinese Scholars Association of Management Science and Engineering invited session organization
- 2012 annual conference of the Chinese Scholars Association of Management Science and Engineering Best Paper Competition Committee
- Ph.D. advisor for Nasser Al Monawer
- Ph.D. dissertation committee member for Su Gao, Shengbin Wang, Andrew Johnson, Tatiana Gershberg, Zhengwei Wang, Irene Gerlovin and Yijun Wang
- Graduate student capstone project advisor: Chendi Zheng, Jie Zhang, Siyao Sun, Yu Gong, Kaustubh Kulkarni, Aditya Karnam, Ridhima Budhwar, Rupali Kulkarni, and Jing Li.

- Member, Ph.D. Admission Committee, Department of Supply Chain Management, Rutgers University, 2009 – present
- Member, Recruiting Committees, Department of Supply Chain Management, Rutgers University, 2015 – present: serve on the committees for 2 NTT, 1 TT, 1 program manager and 1 SCM Center Manager
- Member, Peer Evaluation Committee for Faculty Compensation Program, Department of Supply Chain Management, Rutgers University, 2017
- MBA program curriculum design committee, Missouri University of Science & Technology, 2006-2008
- Rutgers Business School Newark undergraduate policy committee, 2010-2013, 2016-
- Rutgers Business School Newark undergraduate academic standing committee, 2010-2013
- Rutgers Business School New Brunswick undergraduate academic standing committee, 2014-
- SAP Student Academy Instructor, Summer 2012, Summer 2013, Summer 2016
- Americas' SAP Users' Group New Jersey Chapter Conferences hosting, June 16, 2011, October 7, 2011, June 12, 2015 and October 28, 2016
- Co-organizer, 2016 Global Supply Chain Management Summit, Yiwu, China, July 23-24, 2016
- Conference Chair, The 7th Annual SCM Directors' Conference, New Brunswick, NJ, March 21-23, 2018
- Member of INFORMS since 2003
- Member of IIE 2005 - 2008

HONORS/AWARDS/CERTIFICATES

- 2016 Junior Faculty Research Award, Rutgers Business School
- Certificate of SAP Business Associate: Business Foundation & Integration with SAP ERP 6.0 EHP5, 2012
- SAP University Alliances Certified Instructor for Student Certification Academy, 2011
- Certificate of SAP Business Associate: Integration of Business Processes with SAP ERP, 2011
- 2011 Junior Faculty Teaching Award, Rutgers Business School
- 2007 Outstanding Faculty Award, School of Management & Information System, University of Missouri - Rolla
- 2006 Institute of Industrial Engineers (IIE) Annual Conference best paper award in the area of Operations Research
- 2006 Graduate Teaching Award, Department of Industrial and Systems Engineering, University of Florida
- 2006 Certificate of Outstanding Achievement for outstanding academic accomplishment, International Center, University of Florida
- Nominated by the Department of Industrial and Systems Engineering, University of Florida for the INFORMS 2005 Doctoral Colloquium
- Certificate of SAP Application Consultant for Production Planning, 2002
- Certificate of Software Engineer, 1996