

Curriculum Vitae of Yao Zhao

Department of Supply Chain Management
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ACADEMIC EXPERIENCE

Rutgers University, the State University of New Jersey. Newark, NJ

- *Professor.* Dept. of Supply Chain Management. 2015 –
- *Associate Professor.* Dept. of Supply Chain Management and Marketing Sciences. 2008 – 15
- *Assistant Professor.* Dept. of Management Science and Information Systems. 2002 – 08
- *Member.* Rutgers Center for Operations Research (RUTCOR)
- *Fellow.* Rutgers Center for Supply Chain Management
- *Fellow.* Rutgers Blanche & Irwin Lerner Center for Pharmaceutical Management Studies

Fuqua School of Business, Duke University. Durham, NC

- *Visiting Scholar.* Fall 2005

Northwestern University. Evanston, IL

- *Ph.D.* Industrial Engineering and Management sciences. December 2002
- *Master of Science.* Industrial Engineering and Management sciences. December 1999

Massachusetts Institute of Technology. Cambridge, MA

- *Visiting Scholar.* Operations Research Center. 2000-2001

Peking University. Beijing, China

- *Ph.D. Candidate.* Computational Fluid Dynamics. 1994-1997
- *Master of Science.* Mechanical Engineering. June 1994

Nanjing Aeronautic Institute. Nanjing, China

- *Bachelor of Engineering.* Aerodynamics. June 1991
-

INDUSTRIAL EXPERIENCE

Fannie Mae. Washington DC

- *Advising.* Proactive supply risk analytics, 2015-2016

Special Olympics U.S. Games 2014. Lawrenceville, NJ

- *Advising.* Transportation services planning and scheduling. 2012-2014

Defense Logistics Agency and Navy. Norfolk, VA

- *Advising.* Diagnostics of spare part logistics and fulfillment analytics. 2013-2015

Johnson & Johnson. Morris Plains, NJ

- *Advising.* Consumer Healthcare Division. Inventory rationing and product allocation. Fall 2012.

Verizon. Basking Ridge, NJ

- *Consulting.* Supply Chain Services. Network Inventory Optimization and Supply Chain Management. Spring 2012

MTA New York City Transit. New York, NY

- *Consulting.* Service Parts Division. Forecasting and Inventory Management for Signaling Equipment. 2011-2012

Estee Lauder Companies. New York, NY

- *Research Consultant.* Logistics Division. Forecasting and Inventory Control for New Product Launch. Summer 2001

General Motors. Flint, MI

- *Research Consultant.* Service Parts Operations. Forecasting and Inventory Management. Spring and Summer 2000

SCHOLARSHIP

Research Interests: Supply Chain Management, Analytics, Healthcare

Dissertation

Title: The Impact of Information Sharing on Supply Chain Performance

Date: December 2002

Supervisor: David Simchi-Levi (MIT)

Papers Published or Accepted in Refereed Journals

1. Johnson, A., S. Carnovale, J.M., Song, Y. Zhao. 2021. Drivers of Fulfillment Performance in Mission Critical Logistics Systems: An Empirical Analysis. Forthcoming at *International Journal of Production Economics*.
2. Song, J.M., Y. Zhao. 2021. Supply Chain Coordination for E-Commerce: Risk Penalty vs. Flat Rate. Forthcoming at *Manufacturing & Service Operations Management*.
3. Song, J.M., A. Park, Y. Zhao. 2021. Hunger Chain: A Competitive Simulation for Teaching Supply Chain Management. Forthcoming at *Decision Sciences Journal of Innovative Education*.
4. Song, J.M., Y. Zhao, X. Xu. 2021. Incentives and Gaming in Collaborative Projects under the Risk Sharing Partnership. *Manufacturing & Service Operations Management* **23** (2): 453-470.
5. Mun, K.G., Y. Zhao, R. Rafique. 2021. Designing Hydro Supply Chains for Energy, Food and Flood. *Manufacturing & Service Operations Management* **23** (2): 274-293. Best theoretical

research paper, 22nd Asian Pacific Decision Science Institute (APDSI) Conference, Seoul, Republic of Korea. July 21-25, 2017. ENRE Early-Career Best Paper Award, INFORMS Conference, Seattle, WA, October 20-23, 2019.

6. Ninh, A., B. Melamed, Y. Zhao. 2020. Analysis and Optimization of Recruitment Stocking Problems. *Annals of Operations Research* **295**: 747–767.
7. Shi, J., Y. Zhao, R.K. Kiwanuka, A. Chang. 2019. Optimal Selling Policies for Farmer Cooperatives. *Production and Operations Management* **28** (12): 3060-3080.
8. Rafique, R., K.G. Mun, Y. Zhao. 2017. Designing Energy Supply Chains: Dynamic Models for Energy Security and Economic Prosperity. *Production and Operations Management* **26** (6): 1120–1141.
9. Khan, A.J., R. Rafique, W. Zafar, C. Shah, B.G. Haffty, A. Jamshed, Y. Zhao. 2017. Nation-Scale Adoption of Shorter Breast Radiotherapy Schedules Can Increase Survival By Improving Access in Resource Constrained Economies: Results from a Markov Chain Analysis. *International Journal of Radiation Oncology, Biology, Physics* **97** (2): 287-295.
10. Johnson, A., X. Xu, Y. Zhao. 2016. Transportation Planning and Scheduling for the 2014 Special Olympics Games. *Interfaces* **46** (3): 218 – 230.
11. Melamed, B., A.J. Shenhar, V. Holzmann, Y. Zhao. 2016. The Challenge of Innovation in Highly Complex Projects – What Can We Learn from Boeing’s Dreamliner Experience? *Project Management Journal* **47** (2): 62–78.
12. Zhao, Y., N. Liu, Y. Wang, K. T. Hickey. 2015. A Rolling-horizon Pharmacokinetic Pharmacodynamic Model for Warfarin Inpatients in Transient Clinical States. *Personalized Medicine* **13**: 21-32.
13. Iacocca, K., J. Sawhill, Y. Zhao. 2015. Why Brand Drugs Priced Higher Than Generic Equivalents. *International Journal of Pharmaceutical and Healthcare Marketing* **9**: 3 – 19.
14. Fleischhacker, A., A. Ninh, Y. Zhao. 2014. Inventory Positioning in Clinical Trial Supply Chains. *Production and Operations Management* **24**: 991-1011.
15. Shi, J., Y. Zhao. 2014. Component Commonality under No-Holdback Allocation Rules. *Operations Research Letters* **42**:409-413.
16. Shi, J., Yue, X., Y. Zhao. 2014. Operations Sequencing for a Multi-stage Production Inventory System. *Naval Research Logistics* **61**: 144-154.
17. Iacocca, K., Y. Zhao, A. Fein. 2013. Resell versus Direct Models in Brand Drug Distribution. *International Journal of Pharmaceutical and Healthcare Marketing* **7**: 324-340 (selected by the editorial team as one of the two Highly Commended Papers in 2013).

18. Fleischhacker, A., Y. Zhao. 2013. Balancing Learning and Economies of Scale for Adaptive Clinical Trials. *Operations Research for Health Care* **2**: 42-51.
19. Iacocca, K., J. Sawhill, Y. Zhao. 2013. A Multiple Regression Model to Explain the Cost of Brand-drugs. *Socio-Economic Planning Sciences* **47**: 238-246.
20. Xu, X., Y. Zhao, C. Chen. 2012. Project-Driven Supply Chains: Integrating Inventory and Crashing Decisions for Recurrent Projects. *Annals of Operations Research* **241**: 225-247.
21. Simchi-Levi, D., Y. Zhao. 2012. Performance Evaluation of Stochastic Multi-Echelon Inventory Systems: A Survey. *Advances in Operations Research*, Volume 2012: 1-34.
22. Fleischhacker, A., Y. Zhao. 2011. The Dynamic Economic Lot-size Model for Clinical Trial Supply Chains: Planning for Demand Failure. *European Journal of Operational Research* **211**: 496-506.
23. Choi, S., A. Ruszczyński, Y. Zhao. 2011. A Multi-Product Risk Averse Newsvendor with Law-invariant Coherent Measures of Risk. *Operations Research* **59**: 346-364.
24. Shi, J., Y. Zhao. 2010. Technical Note: Some Structural Results of Acyclic Supply Chains. *Naval Research Logistics* **57**: 605–613.
25. Lu, Y., J.S. Song, Y. Zhao. 2010. Non-holdback Allocation Rules in Assemble-to-Order Systems. *Operations Research* **58**: 691-705.
26. Zhang, X. L., Y. Zhao. 2010. The Impact of External Demand Information on Parallel Supply Chains with Interacting Demand. *Production and Operations Management* **19**: 463-479.
27. Melamed, B., Y. Fan, Y. Zhao, Y. Wardi. 2010. IPA Derivatives for a Discrete Model of Make-to-Stock Production-Inventory Systems with Backorders. *Annals of Operations Research* **181**: 1-19.
28. Xu, X., Y. Zhao. 2010. Price-only Contract and Backup Supply. *Operations Research Letters*, **38**: 201-206.
29. Zhao, Y. 2009. Performance Analysis of Assemble-to-Order Systems with Compound Poisson Demand and Batch Ordering Policies. *European Journal of Operational Research* **198**: 800-809.
30. Zhou, B., M.N. Katehakis & Y. Zhao 2009. Managing stochastic inventory systems with free shipping option. *European Journal of Operational Research* **196**: 186-197.
31. Song, J.S., Y. Zhao. 2009. The Value of Component Commonality in a Dynamic Inventory System with Lead Times. *Manufacturing & Service Operations Management* **11**: 493-508.
32. Fan, Y., B. Melamed, Y. Zhao, Y. Wardi. 2009. IPA Derivatives for Make-to-Stock Production-Inventory Systems with Backorders under the (R,r) Policy. *Methodology and Computing in Applied Probability* **11**: 159-179.

33. Boros, A., L., Lei, Y. Zhao, H. Zhong. 2008. Scheduling Container Vessels with Conflicting Objectives. *Annals of Operations Research* **161**: 149-170.
34. Zhao, Y. 2008. Evaluation and Optimization of Installation Base-Stock Policies in Supply Chains with Compound Poisson Demand. *Operations Research* **56**: 437-452.
35. Zhao, Y., B. Melamed. 2007. IPA Gradients for Make-to-Stock Production-Inventory Systems with Lost Sales. *IEEE Transactions on Automatic Control* **52**: 1491-1495.
36. Zhou, B., Y. Zhao, M.N. Katehakis. 2007. Effective Control Policies for Stochastic Inventory Systems with a Minimum Order Quantity and Linear Costs. *International Journal of Production Economics* **106**: 523-531.
37. Zhao, Y., D. Simchi-Levi. 2006. Performance Analysis and Evaluation of Assemble-to-Order Systems with Stochastic Sequential Lead-times. *Operations Research* **54**: 706-724.
38. Zhao, Y., B. Melamed. 2006. IPA Gradients for Make-to-Stock Production-Inventory Systems with Backorders. *Methodology and Computing in Applied Probability* **8**: 191-222.
39. Zhao, Y., M.N. Katehakis. 2006. On the Structure of Optimal Ordering Policy for Stochastic Inventory Systems with Minimum Order Quantity. *Probability in the Engineering and Informational Sciences* **20**: 257-270.
40. Simchi-Levi, D., Y. Zhao. 2005. Safety Stock Positioning in Supply Chains with Stochastic Lead-times. *Manufacturing & Service Operations Management* **7**: 295-318.
41. Simchi-Levi, D., Y. Zhao. 2004. The Value of Information Sharing in a Two-Stage Supply Chain with Production Capacity Constraint: The Infinite Horizon Case. *Probability in the Engineering and Informational Sciences* **18**: 247-274.
42. Simchi-Levi, D., Y. Zhao. 2003. The Value of Information Sharing in a Two-Stage Supply Chain with Production Capacity Constraint. *Naval Research Logistics* **50**: 888-916.

Paper Published in Refereed Conference Proceedings

1. Zhao, Y., B. Melamed. 2004. Make-to-Stock Systems with Backorders: IPA Gradients. *Proceedings of the 2004 Winter Simulation Conference* 559-567. Washington D.C., December 5-8

Extended Abstract

1. Zhao, Y. 2002. The Value of Information Sharing in a Two-Stage Supply Chain with Production Capacity Constraint: The Infinite Horizon Case. *Manufacturing and Service Operations Management* **4**: 21-24

Media Coverage

1. Zhao, Y. 2016. Risk Sharing in Joint Product Development – Lessons From 787 Dreamliner. *The European Business Review*, November – December Issue, pg. 78-84.
2. Iacocca K., Y. Zhao. 2015. Resell vs. Direct Models: US Branded Drug Distribution in the Future. *Pharmaceutical Executive*, July 12, 2015. <http://www.pharmexec.com/kathleen-iacocca-yao-zhao>
3. Zhao, Y. 2013. Model management: project-driven supply chains – integrating supply chain planning with project management. *International Innovation*, May 2013, pg. 56-58.
4. Zhao, Y., A. Shenhar. 2011. Why 787 slips were inevitable. *Aviation Week & Space Technology*, ViewPoint article, February 28, pg. 58.

Book Chapters

1. Choi, S. C., J.M. Song, X. Xu, Y. Zhao 2019 “Models of Channel Coordination” in *Handbook of Research in Distribution Channels*. Charles A. Ingene, James R. Brown and Rajiv P. Dant (Eds.), Chapter 10, pages 226–266. Edward Elgar Publishing.
2. Zhao, Y. 2018 “Supply Chain Analytics” in *Essential of Business Analytics*. Sridhar Seshadri and Bhimasankaram Pochiraju (Eds.), Chapter 23, pages 823-846. Springer SBM, New York.
3. Holzmann V., A. Shenhar, Y. Zhao, B. Melamed 2016 “Cracking the Code of Megaproject Innovation: The Case of Boeing's 787” in *The Oxford Handbook of Megaproject Management*, B. Flyvbjerg (Eds.), Chapter 20, pages 1-26. Oxford University Press, London.

Book

1. DeCandia, L., L. Lei, R. Oppenheim, Y. Zhao “Managing Supply Chain Operations.” World Scientific Publishing & Imperial College Press, Singapore 2017. Pages 1-302.

Honors and Awards

- 2019-2022 Dean’s Research Professor, Rutgers Business School
- ENRE Early-Career Best Paper Award, INFORMS Conference, Seattle, WA, October 20-23, 2019.
- Finalist – 2019 Instructional Innovation Award, Decision Science Institute
- Bright Idea Award for Business-Related Academic Studies, The NJ Policy Research Organization (NJPRO) Foundation for the paper published at POM entitled “Designing Energy Supply Chains: Dynamic Models for Energy Security and Economic Prosperity” (2018).
- The Best Theoretical Research Paper from APDSI Best Paper Awards for the paper entitled “Designing Hydro Supply Chain for Water, Energy and Food.” 22nd Asian Pacific Decision Science Institute (APDSI) Conference, Seoul, Republic of Korea. July 21-25, 2017.
- 2016 Dean’s Meritorious Teaching Award, Rutgers Business School
- *First Prize* – 2014 INFORMS Case Writing Competition
- 2014 Emerald Literati Network Awards for Excellence
- 2011 Dean’s Award for Meritorious Research

- 2010 *M&SOM* Meritorious Service Award
- *Finalist*. Junior Faculty Research Award, Rutgers Business School – Newark and New Brunswick (2005, 2006)
- *Honorable Mention*. Manufacturing & Service Operations Management (*M&SOM*) Student Paper Competition (2001)
- *Walter P. Murphy fellowship*. Northwestern University (1997)

Grants

- Chancellor Seed Grant (2015, \$75,000), PI: Supply Chain Analytics Laboratory
- *NSF EAGER* (1537591, 2015-2016, \$60,303), PI: Collaborative: IC Supply Chain Security and Quality Control in Business and Social Context
- *NSF CAREER* Award (0747779, 2008-2013, \$400,016), PI: Project-Driven Supply Chains (PDSCs) – Integrating Supply Chain Planning With Project Management (0747779)
- *Research Resources Committee Grant*. Rutgers Business School – Newark and New Brunswick (2003, 2004, 2005, 2006, 2007, 2013)
- *Lerner Center Research Grant*. Rutgers Business School – Newark and New Brunswick. 2008, 2010

Invited Research Seminars

“Shipping for online shopping holidays: risk penalty vs flat rate”

- Baruch College Department of Management, CUNY, NY (11/2018)
- IBM Watson Research Center, NY (10/2016)

“Breaking the Vicious Cycle – A Supply Chain Management Perspective on Pakistan’s Energy Crises”

- Anderson School of Management, University of California Riverside, CA (4/2016)
- Fuqua School of Business, Duke University, NC (3/2016)
- Rutgers Energy Institute, Rutgers University, NJ (2/2015)

“Why 787 Slips Were Inevitable?”

- Olin School of Business, Washington University in St. Louis, IL (4/2016)
- Robert H. Smith School of Business, University of Maryland, MD (10/2014)
- Alfred Lerner School of Business and Economics, University of Delaware, DE (9/2014)
- Ross School of Business, University of Michigan, MI (2/2014)
- IBM Watson Research Center, NY (11/2013)
- Booth School of Business, University of Chicago, IL (10/2013)
- Operations Research Center, Massachusetts Institute of Technology, MA (9/2013)
- Industrial Engineering and Management Science, Northwestern University, IL (4/2013)IEOR/DRO Distinguished seminar series, Columbia University, NY (3/2013)
- Stern School of Business, New York University, NY (2/2013)
- Carey School of Business, Arizona State University, AZ (12/2012)
- Management & Global Business, Rutgers Business School, NJ (10/2012)

“Personalized Prediction Models for Warfarin Patients”

- New York Presbyterian Hospital, NY (1/2013)

“Resell vs. Direct Models in Brand Drug Distribution”

- Dept. of Health Policy and Management, Mailman School of Public Health, Columbia University, NY (05/2010)

“Project-Driven Supply Chains: Integrating Supply Chain and Project Management”

- SEEM, Chinese University of Hong Kong, Hong Kong (07/2009)
- IBM Watson Research Center, NY (3/2008)

“Non-Holback Allocation Rules in Assemble-to-Order Systems”.

- Division of Mathematics and System Science, Chinese Academy of Science, Beijing, China (07/2008)
- College of Engineering, Peking University, Beijing, China (07/2008)
- SEEM, Chinese University of Hong Kong, Hong Kong (06/2008)
- Dept. of Logistics, Hong Kong University of Science and Technology, Hong Kong (06/2008)
- Dept. of Management Science, Hong Kong City University, Hong Kong (06/2008)

“Performance Analysis and Evaluation of Assemble-to-Order Systems with Stochastic Sequential Lead-times”.

- School of Business, Drexel University, PA (05/2006)
- Dept. of Information, Operations and Management Sciences, Stern School of Business, New York University, NY (04/2006)
- Dept. of Civil and Environmental Engineering, MIT, MA (10/2005)
- Dept. of Industrial Engineering and Operations Research, North Carolina State University, NC (11/2005)
- Dept. of Operations Research, University of North Carolina at Chapel Hill, NC (10/2005)
- Fuqua School of Business, Duke University, NC (09/2005)

“Safety Stock Positioning in Supply Chains with Stochastic Lead-times”.

- Rutgers Center for Operations Research (RUTCOR), Rutgers University, NJ (10/2004)
- Industrial & System Engineering, Rutgers University, NJ (02/2004)

“The Value of Information Sharing in a Two-Stage Supply Chain with Production Capacity Constraint”.

- Management Science and Engineering, Stanford University, CA (01/2002)
- Dept. of Industrial Engineering, University of Miami, FL (01/2002)
- Sloan School of Management, MIT, MA (11/2001)
- Kellogg School of Management, Northwestern University, IL (10/2001)
- Industrial and Operations Engineering, University of Michigan, MI (03/2001)
- Industrial, Welding and System Engineering, Ohio State University, OH (02/2001)

Invited Talks to Practitioners

- “Positioning Inventory in Clinical Trial Supply Chains”. International Society of Pharmaceutical Engineering, MD (6/2012)

- “Resell vs. Direct Models in Brand Drug Distribution”. Expeditors International, NJ (11/2009)
- “Evaluation and Optimization of Installation Base-Stock Policies in Supply Chains with Compound Poisson Demand”. SAS Corporation, NC (11/2005)
- “Reducing Destruction Cost by Improving Forecasts and Retail Replenishment Processes for Newly Released Products”. Estee Lauder Companies, Inc., NY (11/2001)
- “The Value of Information Sharing in a Two-Stage Supply Chain with Production Capacity Constraint”. United Technology Research Center, CT (12/2000)
- “Setting Forecasts and Initial Ordering Quantities for Newly Identified Service Parts”. Service Part Operations, General Motors, MI (10/1999)

Conference Presentations

1. “A Better Personalized Prediction for International Normalized Ratio Levels in Inpatients Receiving Warfarin.” *Session of Clinical and Hospital-Based Observational Studies: Anticoagulation, Valves and Vessel. Scientific Sessions 2014 of American Heart Association.* Chicago, November 15-19, 2014 (acceptance rate, less than 10%).
2. “VASTA Wireless: Push vs. Pull Distribution Strategies.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* San Francisco, CA, November 9-12, 2014
3. “From Farm to Cup: The Kenya Coffee Supply Chain.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* Minneapolis, MN, October 6-9, 2013
4. “Inventory Positioning in Clinical Trial Supply Chains.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* Phoenix, AZ, October 14-17, 2012
5. “A Multiproduct Risk-averse Newsvendor with Law-invariant Coherent Measures of Risk.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* Charlotte, NC, November 13-16, 2011
6. “Optimizing the Kenya Coffee Supply Chain.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* Austin, TX, November 7-10, 2010
7. “Project-Driven Supply Chain (PDSCs) – Integrating Inventory Planning With Project Management.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* San Diego, CA, October 11-14, 2009
8. “Balancing Learning and Economies of Scale: The Adaptive Clinical Trial Case.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* San Diego, CA, October 11-14, 2009
9. “The Value of Component Commonality under Non-Holdback Allocation Rules.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting.* San Diego, CA, October 11-14, 2009

10. "An Improved Distribution Contract for the Pharmaceutical Industry." *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*. San Diego, CA, October 11-14, 2009
11. "A Multi-Product Risk-Averse Newsvendor with Law Invariant Coherent Measures of Risk." *The Interface of Finance, Operations, and Risk Management (iFORM) Special Interest Group (SIG) Conference*. Boston, MA. June 28, 2009
12. "No-Holdback Allocation Rules for Continuous-Time Assemble-to-Order Systems." *Manufacturing & Service Operations Management (M&SOM) 2009 conference*. Boston, MA. June 29-30, 2009
13. "No-Holdback Allocation Rules for Continuous-Time Assemble-to-Order Systems." *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*. Washington, D.C., October 12-15, 2008
14. "Lead Times, Cost and Allocation Rules on the Value of Component Commonalty." *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*. Seattle, WA. November 4-7, 2007
15. "Price-Only Contracts with Backup Supply." *Manufacturing & Service Operations Management (M&SOM) 2007 conference*. Beijing, China. June 18-19, 2007
16. "Performance Analysis of Acyclic Supply Chains." *INFORMS Annual Meeting*. Pittsburg, PA. November 4-8, 2006
17. "Make-to-Stock Production-Inventory Systems: IPA Gradients." *International Workshop on Applied Probability*. University of Connecticut, CT. May 15-18, 2006
18. "Evaluation and Optimization of Installation Base-Stock Policies in Supply Chains with Compound Poisson Demand." *INFORMS Annual Meeting*. San Francisco, CA. November 13-16, 2005
19. "Make-to-Stock Systems with Backorders: IPA Gradients." *The Winter Simulation Conference*. Washington D.C. December 5-8, 2004
20. "On the Structure of Optimal Policies for Stochastic Inventory Systems with Minimum Order Quantity." *INFORMS Annual Meeting*. Denver, CO. October 24-27, 2004
21. "Performance Evaluation of Large-Scale Assemble-to-Order systems with Batch Ordering." *INFORMS Annual Meeting*. Denver, CO. October 24-27, 2004
22. "Evaluation of Continuous Time Base-Stock Policies in Large-Scale Assemble-to-Order Systems." *INFORMS Annual Meeting*. Atlanta, GA. October 19-22, 2003
23. "Inventory Allocation in Supply Chains with Stochastic Lead-time." *INFORMS Annual Meeting*. San Jose, CA. November 17-20, 2002

24. “The Impact of Information Sharing on Forecasting Accuracy in Multi-Stage Supply Chains.” *INFORMS Annual Meeting*. Miami Beach, FL. November 4-7, 2001
 25. “The Value of Information Sharing in a Two-Stage Supply Chain with Production Capacity Constraints.” *INFORMS Annual Meeting*. San Antonio, TX. November 5-8, 2000
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TEACHING

Teaching Interests

- MBA/MS/Undergrad: Supply chain analytics, operations management, supply chain strategies, healthcare analytics, business statistics.
- PhD: Inventory management, stochastic processes and dynamic programming.

Rutgers Business School – Newark and New Brunswick. NJ

- CBEAD, “Innovation and Supply Chain Project Management.” Summer 2014, Dalian, China
- IEMBA 22:960:523, “Business Statistics.” Fall 2011, Beijing, China
- PhD 26:799:685, “Inventory Models.” Fall 2008, 2010, 2012, 2014
- MBA/MS 22:799:601, “Supply Chain Analytics”. 2018 – present.
- MBA/MS 22:799:696, “Healthcare Services Management”. 2015.
- MBA/MS 22:799:586 “Healthcare Operations Analysis”. 2017 – present.
- MBA SCM core 22:799:607, “Supply Chain Management Strategies.” 2002 – present.
- MBA general core 22:799:580, “Operations Analysis.” 2004 – present.
- MBA elective 22:799:696, “Healthcare Services Management” 2015.
- Undergraduate 22:623:340, “Business Research Method.” Fall 2006, Spring 2008.
- Executive Certificate program, “Supply Chain Case Studies.” (Offered by Rutgers Center for Supply Chain Management) 2004 – present.

Northwestern University. Evanston, IL

- Undergraduate and Master for Engineering Management Program C201, “Introduction to Statistics”. Fall 2001.

Sloan School of Management, MIT. Cambridge, MA

- TA. Leaders for Manufacturing Program 15.761, “Operations Management”. Summer 2001.

PhD Supervision

- Olena Rudna, Ph.D. 2021. “Predicting Fashion Trends by Social Media Word of Mouth: The Twitter Analysis.” Lecturer, MT School of Management, New Jersey Institute of Technology, NJ.
- Maryam Mahdikhani, Ph.D. 2020. “Essays on Retail Operations and The Recent Pandemic (COVID-19): Using Mathematical and Text-Mining Approaches.” Tenure-track assistant professor, College of Charleston, School of Business, SC.

- Arim Park, Ph.D. 2019. “Designing Efficient Marketplaces for the Freight Services Industry.” Co-advised with Dr. Soohyun Cho. Tenure-track assistant professor, North Carolina A&T State University, NC.
- Bonnie He Zhang, Ph.D. 2018. “Essays on Supply Chain Analytics.” Associate of Quantitative Financial Models, J. P. Morgan, New York City.
- Irene Gerlovin, Ph.D. 2017. “Managing Supply Chain Risks in Government Acquisitions Programs – Success Factors and Lessons Learned from Fifth Generation Fighters.” Founder and Principal, New Line Services, Inc.
- Ju Myung Song, Ph.D. 2017. “Essays on Supply Chain Coordination and Optimization.” Co-advised with Dr. Xiaowei Xu. Tenure-track assistant professor, School of Global Innovation and Leadership, Lucas College and Graduate School of Business, San Jose State University, CA.
- Yijun Wang, Ph.D. 2017. “Essays on Supply Chain and Healthcare Analytics.” Co-advised with Dr. Lei Lei. CEO HangZhou LineZone Data Technology CO.LTD. HangZhou, P.R.China.
- Kwon Gi Mun, Ph.D. 2016. “Designing Energy Supply Chains for Economic Prosperity.” Co-advised with Dr. Endre Boros. Tenure-track assistant professor, Dept. of Information Systems and Decisions Sciences, Fairleigh Dickinson University, NJ. Winner of ENRE Early-Career Best Paper Award, INFORMS Conference, Seattle, WA, October 20-23, 2019.
- Anh Ninh, Ph.D. 2015. “Inventory Positioning in Clinical Trial Supply Chains.” Co-advised with Dr. Andrea Prekopa. Tenure-track assistant professor, Dept. of Mathematics, College of William and Mary, VA.
- Andrew Johnson, Ph.D. 2015. “Mission Critical Logistics – Transportation Planning in Special Olympic Games, Fulfillment Study of Naval Ballistic Mission Defense Systems.” Tenure-track assistant professor, Marketing & Business Information Systems Department, Rohrer College of Business, Rowan University, NJ.
- Raza Rafique, Ph.D. 2015. “Break the Vicious Cycle: Models for Energy Security, Economic Prosperity and Sustainability.” Tenure-track assistant professor, Suleman Dawood School of Business, Lahore University of Management Sciences, Lahore, Pakistan.
- Xin Xu, Ph.D. 2014. “Essays on the Interface between Supply Chain and Project Management.” Quantitative Modeling and Financial Services, Goldman Sachs, New York City.
- Rose Karimi Kiwanuka, Ph.D. 2013. “Global Coffee Supply Chains: Improve Small Scale Farmers’ Income.” Africa Nazarene University, Nairobi, Kenya.
- Katie M. Iaccoca, Ph.D. 2011. “Distribution Models in Pharmaceutical/Bio-tech Industries.”

Tenure-track assistant professor, Kania School of Management, University of Scranton. Scranton, PA.

- Adam J. Fleischhacker, Ph.D. 2009. “Supply Chain Management for Clinical Trials.” Tenure-track assistant professor, Alfred Lerner College of Business & Economics, University of Delaware. Newark, DE.
- Ching-Yu Chen, Ph.D. 2008. “Essays on Supply Chain Inventory Management.” Tenure-track assistant professor, Dept. of International Business, College of Management, Tunghai University, Taiwan
- Bin Zhou, Ph.D. 2007. “On Optimal Pricing and Ordering Policies in Supply Chain Management.” Co-advised with M.N. Katehakis. Tenure-track assistant professor, College of Business and Public Administration, Kean University, Union, New Jersey

Dissertation Committee

- Shengbin Wang Ph.D. 2014. “Operations Scheduling with Renewable and Non-renewable Resources.” Currently holds a tenure-track assistant professor position at the School of Business and Economics, North Carolina Agricultural and Technical State University.
- Junmin Shi, Ph.D. 2010. “Make-to-Stock Production-Inventory Systems with Compound Poison Demands, Constant Continuous Replenishment and Lost Sales.” Currently holds a tenure-track assistant professor position at the School of Management, New Jersey Institute of Technology.
- Sungyong Choi, Ph.D. 2009. “Risk Averse Supply Chain Management.” Currently holds a tenure-track assistant professor position at Yonsei University, South Korea.
- Hua Zhong, Ph.D. 2008. “On the Integrated Production, Inventory and Distribution Problem Involving Reverse Flows.” Currently holds a tenure-track faculty position at New York State University, Oneonta.
- Min Shi, Ph.D. 2007. “Detection of Aberrant Response Patterns in Testing Using Cumulative Sum control Schemes”. Currently holds a tenure-track position at the School of Management, Marist College, Poughkeepsie, NY.

Independent Studies Offered to PhD/MBA Students

- Marc Colaco, MBA. “Optimization Strategies within the Healthcare Industry.” Spring 2011.
- Oduntan G. Bode, MBA. “A Case Study: Supply Chain Management Strategies – CRS Inc.” Summer 2007.
- Ketul Patel, MBA. “Supply Chain Challenges in Pharmaceutical Industry and Available SAP Solutions.” Spring 2007.
- Kristyn Harkins, MBA. “The Decision to Offshore Production and Related Supply Chain Effects for the Corporation.” Summer 2005.

- Nadine Gerwers, MBA. “Benchmark Analysis on Pharmaceutical and CPG Companies.” Fall 2003.
- Xiajun Pan, Ph.D. Student. “Safety Stock Allocation in Supply Chains.” Fall 2003.
- Anirban Bhattacharya, MBA. “Pharmaceutical Industries: Key Supply Chain Issues.” Spring 2003.

Teaching Cases

1. “F35 Joint Strike Fighter – Supply Chain Project Management to the Rescue” with Irene Gerlovin. Spring 2015.
2. “Special Olympics – Transportation Planning and Scheduling” with Andrew Johnson. Summer 2014.
3. “Sony vs. Samsung: The Fall of Electronics Legends” with Kwon Gi Mun and Raza Rafique. Summer 2014.
4. “Apple vs. Samsung: Competitive Supply Chain Collaboration” with Kwon Gi Mun and Raza Rafique. Spring 2014.
5. “OXO International – Forecasting & Inventory Management.” Winter 2012.
6. “New Jersey Provision – A Small Food Distributor” with Yingnan Li. Summer 2012.
7. “The Chocolate Factory – EOQ vs. EPC Models” with Vijay Hanagandi and Stephen Johanson. Spring 2011.
8. “VASTA Wireless – Push vs. Pull Distribution Strategies.” Spring 2011.
9. “TLJ Pharmacy – Sourcing Strategies.” Fall 2011.
10. “Pakistan Energy Crisis – Breaking the Vicious Cycle” with Raza Rafique. Fall 2011.
11. “Valentine’s Roses – Supply Chain Strategies.” Fall 2011.
12. “From Farm to Cup: The Coffee Supply Chain in Kenya” with Rose Karimi Kiwanuka. Spring 2010.
13. “CTR Clinical Research: Clinical Trial Supply Management” with Michael Guh, Yevgeniy Krol, Shivang Patel. Spring 2010.
14. “Build-to-Performance – Boeing 787 Dreamliner” with Xin Xu. Summer 2010.
15. “Influenza Pandemic – Just-In-Time vs. Just-In-Case Strategies.” Summer 2010.
16. “American Royal Financial – The Launch of Amrolife Return of Premium Term.” Fall 2010.
17. “Supply Chain Efficiency vs. Sustainability – Army Ammunition Industry Base.” Fall 2010.
18. “ImportHome LLC – A B2C Small Business Model” with Lei Wang. Spring 2009.
19. “Yaka Pharmaceuticals: Drug Distribution Contracts” with Kathleen Martino. Spring 2009.
20. “Panda Express: Material Management” with Lily Yin and Suparna Bhaumik. Spring 2009.
21. “C&H Logistics.” Spring 2009.
22. “ICM Inc. – Construction Resource Management” with Mihirkumar Shah. Spring 2009.
23. “Supply Chain Management Strategies – CRS Inc.” with Oduntan G. Bode. Summer 2007.

New Course Development

- MBA/MS 22:799:585, “Supply Chain Analytics” Spring 2018.
- MBA/MS 22:799:696, “Healthcare Services Management”, Spring 2015.
- MBA/MS 22:799:586 “Healthcare Operations Analysis”, Spring 2017 / 18.
- Undergraduate 29:799:301, “Introduction to Supply Chain Management”.
- PhD 26:799:685, “Inventory Models”, 2008, 2010, 2012, 2014.

New Program and Curriculum Development

- Founding Co-director: developed the program and curriculum for the Master of Science in Supply Chain Analytics (with Benjamin Melamed), started September 2017.
- Founding Co-director: developed the program and curriculum for the Master of Science in Healthcare Services Management (with David Dobrzykowski), started January 2017.

SERVICE

Rutgers University. New Brunswick, NJ

- *Faculty Mentor.* The School of Arts and Sciences Honors Program. 2011-14
- *Committee member.* RUN “Research Advisory Committee (RAC)” 2014-15

Rutgers Center for Supply Chain Management. Newark, NJ

- *Assistant Director and Academic Fellow.* Designing and analyzing a benchmark study for pharmaceutical and CPG industries
- *Faculty Advisor.* Organizing internal case competition, and advising student teams that participated in external case competitions on operations management

Rutgers Supply Chain Analytics Laboratory. Newark, NJ

- *Founding Co-director:* Organizing faculty and student teams to engage in industry research projects. Hosting certificate programs for executives and professionals. Soliciting scholarships, internships and jobs for supply chain analytics students. Organizing annual symposium for industry outreach, networking and knowledge sharing.

Rutgers Business School – Newark and New Brunswick. NJ

- *Chair.* Course of Study Committee. 2013-2014
- *Committee member.* The Rutgers-SJTU DBA program. 2013
- *Standing committee.* Teaching Methods and Innovations. 2004-2005
- *Standing committee.* Undergraduate and MBA programs. 2008-2009
- *Committee member.* MBA curriculum, course of study committee. 2009
- *Core Courses Review committee.* Undergraduate programs. 2009-2011
- *Junior Faculty Research Award committee.* 2010-2011

Department of Supply Chain Management and Marketing Sciences

- *Co-Vice Chair.* Graduate programs, new program initiatives. 2015-2016
- *Founding Co-director.* Masters of Healthcare Services Management. 2015-16
- *Founding Co-director.* Masters of Supply Chain Analytics. 2015-16
- *Academic coordinator.* The Ph.D. program in supply chain management
- *Faculty recruiting committee.* 2008 – present
- *PhD admission committee.* 2007 – present

Professional Service

- *Associate Editor.* Operations Research. 2012-2018
- *Associate Editor.* Manufacturing & Service Operations Management. 2011-2014

- *Ad-hoc Referee*. European Journal of Operational Research, IEEE Transactions on Automatic Control, IIE Transactions, Management Science, Manufacturing & Service Operations Management, Marketing Science, Naval Research Logistics, Operations Research, Probability in Engineering and Information Sciences, Production and Operations Management, Stochastic Models
- *Reviewer*. Multi-Echelon Conference 2006, M&SOM conference 2009, 2011
- *Judge*. M&SOM student paper competition 2008 – present
- *Committee*. IIE Pritsker Doctoral Dissertation Award 2014-15
- *Panelist*. NSF CMMI 2009, 2010, 2013

Session Chair

- Energy and Supply Chain Management. INFORMS Annual Meeting 2015-18
- Collaborative Innovation and Project Supply Chain Interfaces. INFORMS Annual Meeting 2016-2017
- Supply Chain Marketing Interface. INFORMS Annual Meeting 2011
- Supply Chain Management and Pharmaceutical/Healthcare Industries. INFORMS Annual Meeting 2010
- Assemble-to-Order Systems, Allocation Rules and Component Commonality. INFORMS Annual Meeting 2007 and 2008
- Supply Chain Design Issues. INFORMS Annual Meeting 2003
- Inventory Management IV. INFORMS Annual Meeting 2003

INFORMS New Jersey Chapter

- *President*. 2006-2007

Professional Affiliation

- Member, Institute of Operations Research and Management Science (INFORMS)
- Member, Manufacturing & Service Operations Management (*M&SOM*) Society of INFORMS
- General Professional Member, American Heart Association (AHA)