Qi Annabelle Feng

100 S. Grant St Room 4024
West Lafayette, IN 47907

Phone: 765-494-2188
Email: annabellefeng@purdue.edu
Web: http://web.ics.purdue.edu/~feng75/

Education

May 2006 Ph.D. in Operations Management, School of Management,
The University of Texas at Dallas.

July 1999 B.Eng. in Industrial Management Engineering, School of Management,
B.Eng. in Computer and Applications, School of Electronics & Information,
Shanghai Jiao Tong University.

Employment

Jun.2012- Mitchell. E. Daniels, Jr. School of Business
(Previously, Krannert School of Management)
Purdue University, West Lafayette, IN 47907.

Aug.2013- *Area Head of Supply Chain & Operations Management (Sabbatical 2018-19)*

Aug. 2014 - *John & Donna Krenicki Chair in Operations Management*

Aug. 2014 - *Professor*

Jun.2012-Aug. 2014 *Associate Professor*

Aug. 2012-Aug. 2018 *Area Ph.D. Advisor of Operations Management*

Jun. 2012-Aug. 2018 *Academic Director of MS GSCM*

Jun. 2012-Sep. 2014 *Associate Director, DCMME & GSCMI Centers*

Aug.2006-Jun.2012 McCombs School of Business
The University of Texas at Austin, Austin, TX 78712
Assistant Professor of Information, Risk & Operations Management
Tenure granted on December 16, 2011, effective on September 1, 2012

May.2005-Aug.2005 *Research Associate in Supply Chain Management*
Hewlett-Packard Laboratories, Palo Alto, CA 94304.

Jun.2004-Aug.2004 *Research Intern in Supply Chain Management,*
Hewlett-Packard Laboratories, Palo Alto, CA 94304.

Nov.1998-Jul.2001 *Business Consultant,*
Arthur Andersen (Shanghai) Business Consulting, China.

Honors and Awards

- 2024 Purdue Special Employee Performance Recognition Awards
- 2022 Finalist, INFORMS UPS Award
- 2020 Fellow, Production & Operations Management Society

- 2018 POMS Wickham Skinner Best Paper Award
- 2014 Purdue University Faculty Scholar
- 2012-2020 Distinguished Teacher of Master's Course, Krannert School of Management
- 2021 Distinguished Teacher of Online Program, Krannert School of Management
- 2013 Faculty Service Award, Krannert School of Management
- 2011, 2013 Meritorious Service Award for Management Science
- 2013-2018 Meritorious Service Award for Manufacturing & Service Operations Management
- 2012 POMS Wickham Skinner Early-Career Research Accomplishment Award.
- 2011 Honorable Mention, OCSAMSE Best Paper Award.
- 2011, 2012 Department Nominee for the CBA Foundation Research Excellence Award for Assistant Professors
- 2009 Franz Edelman Award
- 2009 INFORMS Junior Faculty Paper Competition, 1st prize.
- 2009 Service for Students with Disability (SSD) Appreciation Award, UT Austin
- 2005 Hewlett-Packard Award for Excellent Contribution

Professional Services
- Department editor of Stochastic Models for *Production and Operations Management* (2013-2021) and of Supply Chain Management for *Flexible Manufacturing and Service Journal* (since 2017)
- Associate editor for *Management Science* (since 2018), Associate Editor for *Manufacturing & Service Operations Management* (since 2021), Associate Editor for *Operations Research* (2022-2024)
- Referee for *Operations Research, Mathematics of Operations Research, Management Science, Manufacturing & Service Operations Management, Operations Research Letter, Naval Research Logistics, IIE Transactions, European Journal of Operational Research, Journal of Operations Research Society, Journal of Operations Management, IEEE Transactions on Engineering Management, IMA Journal of Management Mathematics, Decision Support Systems, International Journal of Modeling and Simulation, Journal of Population Economics*.
- Board member of POMS, 2018-2019
- Secretary/Treasurer of MSOM Society, 2016-2017
- VP of Communication for POMS College of Supply Chain Management, 2013.
- Editorial board for POMS Chronicle, 2013-2014
- General Program Chair for 2015 POMS Annual Conference
- Invited session chairs for INFORMS 2005-2010, 2013, 2022 and POMS 2006-2009, 2021, 2023, 2024. Track chair for POMS Annual Conference 2011, 2013, 2018, 2019.
- Judge for 2011, 2012, 2013 MSOM Student Paper Competition.
- Judge for 2012 POMS Emerging Economies Doctoral Student Award.
- Judge for 2019 POMS JD.com Global Optimization Challenge
- Committee member of 2019 MSOM iFORM Best Paper Award

- Committee member of 2020 Wickham-Skinner Best Paper Award
- Program co-chair for 2019 POMS International Conference in China June 21 – 24
- Program co-chair for 2022 POMS International Conference in China June 24 – 27
- External reviewer for the Ph.D. Program for Herbert Business School, University of Miami, February-April 2024.
- Judge for 2024 Applied Probability Society Student Paper Competition

Research Interests
Data-integrated stochastic models; Stochastic functions
Procurement and inventory management; Choice models; Negotiations in supply chains; Not-for profit operations

Publications
P46 Q. Feng, J. G. Shanthikumar. Parametric integral stochastic orders. *Journal of Advances in Applied Probability*. Forthcoming.

P45 Q. Feng, J. G. Shanthikumar, J. Wu. Operational data analytics (ODA) for Newsvendor with contexture information. *Management Science*. Forthcoming.

P44 Q. Feng, Z. Jiang, L. Liu, J. G. Shanthikumar, and Y. Yang. Design of queues with Operations Data Analytics (ODA). 2025. *Management Science*. 71(3) 1865-1888.

P43 L. Y. Chu, Q. Feng, J. G. Shanthikumar, M. J.-Z. Shen, J. Wu. Solving the price-setting newsvendor problem with parametric Operational Data Analytics (ODA). *Management Science*. Forthcoming.

P42 Q. Feng, L. Li, J. G. Shanthikumar. The effect of supply uncertainty on dynamic procurement and pricing strategies under lost sales. 2024. *Production and Operations Management*. **33**(1) 108–127.

P41 T. Fan, Q. Feng, Y. Li, J. G. Shanthikumar, Y. Wu. 2024. Output-oriented agricultural subsidy design. *Management Science*. **70**(3) 1526-5501.

P40 Q. Feng, J. G. Shanthikumar. 2023. The framework of parametric and non-parametric Operational Data Analytics (ODA). *Production and Operations Management*. **32**(9) 2685-2703.

P39 Q. Feng, J. G. Shanthikumar. 2022. Developing Operations Management Data Analytics. *Production and Operations Management*. **31**(12) 4544-4557.

P38 Q. Feng, C. Li, M. Lu, J. G. Shanthikumar. 2022. Dynamic substitution for selling multiple products under supply and demand uncertainties. *Production and Operations Management*. **31**(4) 1645-1662.

P37 Q. Feng, J. G. Shanthikumar. 2022. Applications of stochastic orders and stochastic Functions in Inventory and Pricing Problems. *Production and Operations Management*. **31**(4) 1433-1453.

P36 Q. Feng, Y. Li, J.G. Shanthikumar. 2022 Negotiations in competitive supply chains: The Kalai-Smorodinsky bargaining solution. *Management Science*. **68**(8) 5557-5635.

P35 Q. Feng, J. G. Shanthikumar. M. Xue. 2022. The consumer choice model and estimation: A review and extension. *Production and Operations Management*. **31**(2) 847-867.

P34 Q. Feng, C. Li, M. Lu, J. G. Shanthikumar. 2022. Implementing environmental and social responsibility programs in supply networks through multi-unit bilateral negotiation. *Management Science*. **68**(4) 2579-2599.

P33 A. Bensoussan, Q. Feng, S. P. Sethi. 2022. Integrating equipment investment strategy with maintenance operations under uncertain failures. *Annals of Operations Research*. **317** 353–386

P32 Q. Feng, Z. Ma, Z. Mao, J. G. Shanthikumar. 2021. Multi-stage supply chain with production uncertainty. *Production and Operations Management*. **30**(4) 921-940.

P31 Q. Feng, Y. Li, J. G. Shanthikumar. 2020. Competitive revenue management with sequential bargaining. *Production and Operations Management*. **29**(5) 1307-1324

P30 Q. Feng, S. Luo, J. G. Shanthikumar. 2020. Integrating dynamic pricing with inventory decisions under lost sales. *Management Science*. **66**(5) 2232-2247

P29 X. Gan, Q. Feng, S. P. Sethi. 2019. Sourcing contract under countervailing incentives. *Production and Operations Management*. **28**(10) 2486-2499

P28 Q. Feng, Z. Jia, J. G. Shanthikumar. 2019. Dynamic multi-sourcing with dependent random Supply Capacities. *Management Science*. **65**(6):2770-2786

P27 Q. Feng, J. G. Shanthikumar. 2018. How research in Production and Operations Management may evolve in the era of Big Data. *Production and Operations Management*. **27**(9) 1670-1684

P26 Q. Feng, J. G. Shanthikumar. 2018. Arrangement increasing resource allocation. *Methodology and Computing in Applied Probability*. **20** 935-955

P25 Q. Feng, J. G. Shanthikumar. 2018. Demand and supply functions in inventory models. *Operations Research*. **66**(1) 77-91

P24 Q. Feng, J. G. Shanthikumar. 2018. Posted Pricing versus Bargaining in Sequential Selling Process. *Operations Research*. **66**(1) 92-103

P23 G. Berenguer, Q. Feng, J. George Shanthikumar, L. Xu. 2017. The effects of subsidies on increasing consumption through for-profit and not-for-profit newsvendors. *Production and Operations Management*. **26**(6) 1191–1206.

P22 A. Bensoussan, Q. Feng, S. Luo, S. P. Sethi. 2016. Evaluating long-term service performance under short-term forecast updates. *International Journal of Production Research*. **54**(17) 5236-5249.

P21 B. T. Erciyes, Q. Feng, W. Chen. 2016. Dual sourcing under random supply capacities: The role of the slow supplier. *Production and Operations Management*. **25**(7) 1232-1244.

P20 W. Chen, Q. Feng, S. Seshadri. 2015. Inventory-based dynamic pricing with costly price adjustment. *Production and Operations Management*. **24**(4) 732-749.

P19 Q. Feng, G. Lai, L. X. Lu. 2015. Dynamic bargaining in a supply chain with asymmetric demand information. *Management Science*. 61(2) 301-315.

P18 Q. Feng, S. Lou, D. Zhang. 2014. Dynamic inventory-pricing control under backorder: demand estimation and policy optimization. *Manufacturing & Service Operations Management*. **16**(1) 149-160.

P17 Q. Feng, L. X. Lu. 2013. The Role of Contract Negotiation and Industry Structure in Production Outsourcing. *Production and Operations Management*. 22(5) 1299-1319.

P16 Q. Feng, L. X. Lu. 2013. Supply chain contracting under competition: bilateral bargaining vs. Stackelberg. *Production and Operations Management*. **22**(3)661-675.

P15 C. Santos, T. Gonzalez, H. Li, K.-Y. Chen, D. Beyer, S. Biligi, Q. Feng, R. Kumar, S. Jain, R. Ramanujan, A. Zhang. 2013. HP Enterprise Services uses optimization for resource planning. *Interfaces*. **43**(2) 152-169.

P14 W. Chen, Q. Feng, S. Seshadri. 2013. Sourcing from suppliers with random yield for price-dependent demand. *Annals of Operations Research*. **208**(1) 557-579.

P13 Q. Feng, L. X. Lu. 2012. The strategic perils of low-cost outsourcing. *Management Science*. **58**(6)1196-1210.

P12 Q. Feng, R. Shi. 2012. Sourcing from multiple suppliers for price-dependent demands. *Production and Operations Management*. **21**(3) 547-563.

P11 M. Cakanyıldırım, Q. Feng, X. Gan, S. P. Sethi. 2012. Contracting and coordination under asymmetric production cost information. *Production and Operations Management*. **21**(2)345-260.

P10 Q. Feng. 2010. Integrating dynamic pricing and replenishment decisions under supply capacity uncertainty. *Management Science*. **56**(12) 2154-2172.

P9 A. Bensoussan, Q. Feng, S. P. Sethi. 2010. Achieving a long-term service target with short-term demand signals: a newsvendor framework. *Manufacturing & Service Operations Management*. **13(**1) 73-88.

P8 J.Ward, B. Zhang, S. Jain, C. Fry, T. Olavson, H. Mishal, J. Amaral, D. Beyer, A. Brecht, B. Cargille, R. Chadinha, K. Chou, G. DeNyse, Q. Feng, C. Padovani, S. Raj, K. Sunderbruch, R. Tarjan, K. Venkatraman, J. Woods, J. Zhou. 2010. HP transforms product portfolio management with operations research. *Interfaces*. **40**(1) 17-32. (**2009 Edelman Award**)

P7 A. Bensoussan, M. Cakanyıldırım, Q. Feng, S. P. Sethi. 2009. Optimal ordering policies for stochastic inventory problems with observed information delays. *Production and Operations Management*. **18**(5) 546-559.

P6 Q. Feng, V. S. Mookerjee, S. P. Sethi. 2008. Application Development using fault data. *Production and Operations Management*. **17**(2) 162-174.

P5 K. J. Arrow, A. Bensoussan, Q. Feng, S. P. Sethi. 2007. Optimal savings and the value of population. *Proceedings of National Academy of Science*. **104**(47) 18421-18426.

P4 Q. Feng, S. P. Sethi, H. Yan, H. Zhang. 2006. Are base-stock policies optimal in inventory problems with multiple delivery modes? *Operations Research*. **54**(4) 801-807.

P3 Q. Feng, S. P. Sethi, H. Yan, H. Zhang. 2006. Optimality and nonoptimality of the base-stock policy in inventory problems with multiple delivery modes. *Journal of Industrial and Management Optimization*. **2**(1) 19-42.

P2 Q. Feng, V. S. Mookerjee, S. P. Sethi. 2005. Optimal policies for sizing and timing of software maintenance projects. *European Journal of Operational Research*. **173** 1047-1066.

P1 Q. Feng, G. Gallego, S. P. Sethi, H. Yan, H. Zhang. 2005. A periodic review inventory model with three procurement modes and forecast updates. *Journal of Optimization Theory & Applications*. **124** (1) 137-155.

Book Chapters

B4 Q. Feng, J. G. Shanthikumar. 2017. Not-for-Profit Operations Management. *Routledge Companion for Production and Operations Management*, edited by Sushil Gupta and Martin Starr, Chapter 27.

B3 Q. Feng, L. X. Lu. 2011. Outsourcing design to Asia: ODM practices. *Managing Supply Chains on the Silk Road: Strategy, Performance and Risk*, edited by C. Haksoz, S. Seshadri, A. V. Iyer.

B2 Q. Feng, S. P. Sethi. 2010. Flexible supply contracts with price risk-sharing. *Handbook on Innovative Quick Response Programs in Logistics and Supply Chain Management*, edited by T.C. Edwin Cheng, Tsan-Ming Choi. Springer.

B1 K. J. Arrow, A. Bensoussan, Q. Feng, S. P. Sethi. 2010. The genuine saving criterion and the value of population in an economy with endogenous population changes. *Optimal Control of Age-structured Populations in Economy, Demography, and the Environment*. (Taylor & Francis Series "Environmental Economics") Monograph edited by R. Boucekkine, N. Hritonenko, Y. Yatsenko. Routledge, Taylor & Francis, UK.

Technical Reports

T3 B. Zhang, J. Ward, Q. Feng. 2005. A simultaneous maximum flow algorithm with vertex balancing. *HP Labs Technical Report. HPL-2005-121.*

T2 B. Zhang, J. Ward, Q. Feng. 2005. A simultaneous maximum flow algorithm for the selection model. *HP Labs Technical Report. HPL-2005-91.*

T1 B. Zhang, J. Ward, Q. Feng. 2004. Simultaneous parametric maximum-flow algorithm for finding the complete chain of solutions. 2004. *HP Labs Technical Report. HPL-2004-189.*

Working Papers

S1 F. Chen, Q. Feng, J. G. Shanthikumar, Y. Yang. Scheduling of outpatient clinical service under uncertain patient arrival, cancellation, and no-shows. Under 2nd round revision for *Operations Research*.

S2 Q. Feng, L. Li, and J. G. Shanthikumar. Transfer learning, cross learning and co-learning with Operational Data Analytics (ODA). Under 1st round revision for *Management Science*.

S3 A. Federgruen, Q. Feng, J. G. Shanthikumar. On the almost threshold policy for multisourcing under uncertain supplies. Under 3rd round review for *Operations Research*.

S4 Q. Feng, J. G. Shanthikumar. M. Xue. Rational Choice Models: The Temporal Tree Representation. Under 3rd round review *Management Science*.

S5 Q. Feng, Z. Jiang, G. Na, J. G. Shanthikumar, Y. Yang, L. Zhou. Appointment scheduling with possible extended stay for day surgery centers. Under 1st round review at *Production and Operations Management*.

W1 Q. Feng, J. G. Shanthikumar, J. Wu. Operational Data Analytics Embedded Neural Network Learning for the Newsvendor Problem with General Demand.

W2 Q. Feng, J. G. Shanthikumar, Y. Yang. Dynamic Operational Data Analytics for Optimal Stopping.

W3 Q. Feng, J. G. Shanthikumar, Y. Yang, J. Wu. Proximal inventory systems.

W4 Q. Feng, J. G. Shanthikumar, M. Xue. Estimating Contextual Rational Choice Models with Universal Approximations.

Conference Presentations

- Rational Choice Models: The Temporal Tree Representation. MSOM 2024 Conference, Minneapolis, MN, July 2024.
- Scheduling of outpatient clinical service under uncertain patient arrival, cancellation, and no-shows. INFORMS 2024 Annual Meeting, Phoenix, AZ, October 2024.
- Rational Choice Models: The Temporal Tree Representation. INFORMS 2024 Annual Meeting, Phoenix, AZ, October 2024.
- Operational Data Analytics for Newsvendor with Contexture Information. INFORMS 2024 Annual Meeting, Phoenix, AZ, October 2024.
- The Cross Learning and Transfer Learning of Newsvendor Systems with Operational Data Analytics. The University of Florida ISOM Workshop, Gainesville, FL, Feb 2024.
- The Effect of Supply Uncertainty on Dynamic Procurement and Pricing Strategies under Lost Sales. POMS 2023 Conference, Orlando, FL, May 2023.
- **Panelist**: Editorial Review Process. Further Business Analytics Professor Workshop. University of Iowa, August 2023.
- **Keynote**: Service Speed Design with Operational Data Analytics. Purdue Operations Conference 2023, West Lafayette, IN, September 2023.
- The Operational Data Analytic (ODA) for Service Speed Design. INFORMS Annual Meeting 2023, Phoenix, AZ, October 2023.
- Operational Data Analytics for Newsvendor with Contexture Information. INFORMS Annual Meeting 2022, October 2022.
- Transfer Learning, Cross Learning and Co-Learning with Operational Data Analytics. INFORMS Annual Meeting 2022, October 2022.
- **Panelist**: Academic Job Market. INFORMS 2022 PhD Student Workshop, Indianapolis, IN October 2022.
- **Panelist**: Job Search Process. POMS 2022 PhD job market workshop series. Virtual, September 2022.
- **Panelist**: Editorial Review Process. Further Business Analytics Professor Workshop. University of Iowa, August 2022.
- Operational Data Analytics for Newsvendor with Contexture Information. POMS 2022 Conference, May 2022.
- Transfer Learning, Cross Learning and Co-Learning with Operational Data Analytics. POMS 2022.
- Tutorial: Operational Data Analytics for Operations Management. POMS 2021 Conference. Virtual, May 2021.

- Dynamic Appointment Scheduling with Partial Patient Cancellation Information. INFORMS Conference on Service, December 2020.
- Implementing Environmental and Social Responsibility Programs in Supply Networks through Multi-Unit Bilateral Negotiation. (Invited) INFORMS Conference, Seattle, WA, October 2019.
- Negotiation in Competitive Supply Chains: The Kalai-Smorodinsky Bargaining Solution. (Invited) INFORMS Conference, Seattle, WA, October 2019.
- Multisourcing under Dependent Supplies. (Invited) INFORMS Conference, Seattle, WA, October 2019.
- Stochastic Functions and their Applications in POM. POMS International Conference in China, Tianjin, June 2019.
- Operational Data Analytics: A Newsvendor Application. (Keynote) 2019 International Symposium on Revenue Management, Zhejiang University, China, June 2019.
- Negotiation in Competitive Supply Chains: The Kalai-Smorodinsky Bargaining Solution. (Invited) POMS Conference, Washington, DC, May 2019.
- Data Integration for Decision Making in Operations Management. (Invited) POMS Conference, Washington, DC, May 2019.
- Integrating Dynamic Pricing with Inventory Decisions under Lost Sales. (Invited) POMS Conference, Washington, DC, May 2019.
- Implementing Environmental and Social Responsibility (ESR) Programs in Supply Networks Through Multi-Unit Bilateral Negotiation. (Invited) POMS Conference, Washington, DC, May 2019.
- Operational Data Analytics: A Newsvendor Application. (Invited) Symposium on Data-Driven Decision Making: Design, Optimization and Application, John's Hopkin's University, June 2019.
- Negotiation in Competitive Supply Chains: The Kalai-Smorodinsky Bargaining Solution. (Invited) INFORMS Conference, Houston, TX, November 2018.
- Data-driven Inventory and Pricing Management with Adversarial Models. (Invited) INFORMS Conference, Houston, TX, November 2018.
- Dynamic substitution policy for selling multiple products. (Invited) INFORMS Conference, Houston, TX, November 2018.
- Competitive revenue management under sequential selling. (Invited) INFORMS Conference, Houston, TX, November 2018.
- Ensuring corporate social responsibility in supply chain networks through simultaneous bilateral bargaining. (Invited) INFORMS Conference, Houston, TX, November 2018.
- Dynamic substitution policy for selling multiple products. (Invited) INFORMS Conference, Houston, TX, November, 2018.
- Pricing and Inventory Management with Operational Data Analytics. (Invited). ECUST 9-th e-Commerce and Supply Chain Management, Shanghai, China, June, 2018.

- Pricing and Inventory Management with Operational Data Analytics. (Invited) Tsinghua-JD-POMS International Workshop, Qingdao, China, June, 2018.
- Competitive revenue management under sequential selling. (Invited) POMS Conference, Houston, TX, May 2018.
- Dynamic Coordination in a supply chain with production capacity uncertainty. (Invited) POMS Conference, Houston, TX, May 2018.
- Ensuring corporate social responsibility in supply chain networks through simultaneous bilateral bargaining. (Invited) POMS Conference, Houston, TX, May 2018.
- Competitive revenue management under sequential selling. (Invited) INFORMS Conference, Houston, TX, November 2017.
- Dynamic Coordination in a supply chain with production capacity uncertainty. (Invited) INFORMS Conference, Houston, TX, November 2017.
- Applications of joint stochastic orders in arrangement and allocation (Invited) ECUST 7th Conference on E-Commerce and Supply Chain Management, Shanghai, china, July, 2017.
- Applications of joint stochastic orders in arrangement and allocation (Invited) MSOM Workshop Honoring John Buzacott, Chapel Hill, NC, June, 2017.
- Competitive revenue management under sequential selling. (Invited) POMS Conference, Seattle, WA, May, 2017.
- Dynamic Coordination in a supply chain with production capacity uncertainty. (Invited) POMS Conference, Seattle, WA, May, 2017.
- Dynamic substitution policy for selling multiple products. (Invited) INFORMS Conference, Nashville, TN, November, 2016.
- Dynamic Coordination in a supply chain with production capacity uncertainty. (Invited) INFORMS Conference, Nashville, TN, November, 2016.
- Dynamic pricing in inventory systems with lost sales. (Invited) 6th Conference on E-Commerce and Supply Chain Management, Shanghai, china, July, 2016.
- Dynamic pricing in inventory systems with lost sales. (Invited) POMS Conference, Orlando, FL, May, 2016.
- Sourcing from multiple suppliers with dependent random capacity. (Invited) INFORMS Conference, San Philadelphia, PA, November, 2015.
- How should retailer share information with the supplier? (Invited) INFORMS Conference, San Philadelphia, PA, November, 2015.
- Sourcing from multiple suppliers with dependent random capacity. (Invited) Mostly OM Conference, Tsinghua University, China, June, 2015.
- Advanced analytics in operations management. (Invited) POMS Conference, Washington DC, May, 2015.
- Demand and supply functions in inventory models. (Invited) INFORMS Conference, San Francisco, CA, November, 2014.
- Bargaining versus posted price. (Invited) Mostly OM Conference, Beijing, China, June, 2014.

- Bargaining versus posted price in sequential selling process. (Invited) POMS Conference, Atlanta, GA, May, 2014.
- Dynamic bargaining under asymmetric information. (Invited) POMS Conference, Atlanta, GA, May, 2014.
- Dynamic bargaining under asymmetric information. (Invited) INFORMS Conference, Minneapolis, MN, October, 2013.
- Teaching Innovation in Global Supply Chain Management Program (Invited) POMS College in Supply Chain Mini Conference, Denver, CL, May 2013.
- Dynamic bargaining in a supply chain with asymmetric demand information (Invited) POMS Conference, Denver, CL, May 2013.
- Supply chain contracting under competition (Invited) POMS Conference, Denver, CL, May 2013.
- Supply chain contracting under competition (Invited) INFORMS Conference, Phoenix, AZ, November 2012.
- Bargaining under asymmetric demand information. (Invited) INFORMS Conference, Phoenix, AZ, November 2012.
- Supply chain contracting under competition: bilateral bargaining vs. Stackelberg. (Invited) INFORMS Conference, Charlotte, NC, November 2011.
- Dual sourcing from unreliable suppliers: the role of the slow supplier. (Invited) POMS Conference, Reno, NV, May 2011.
- Is outsourcing a win-win game? (Invited) POMS Conference, Reno, NV, May 2011.
- Countervailing incentives under asymmetric production cost information. (Invited) INFORMS Annual Meeting, Austin, TX, November 2010.
- Dual sourcing from unreliable suppliers: the trade-off among lead time, reliability and cost. (Invited) INFORMS Annual Meeting, San Diego, CA, October 2009.
- Design outsourcing in a differentiated product market. (Invited) INFORMS Annual Meeting, San Diego, CA, October 2009.
- Sourcing from multiple suppliers for price-dependent demands. (Invited) POMS Conference, Orlando, FL, May 2009.
- Sourcing from multiple suppliers for price-dependent demands. (Invited) INFORMS Annual Meeting, Washington DC, October 2008.
- Impact of process uncertainty in a two-stage production system. MSOM Conference, Maryland, MD, June 2008.
- Coordinating replenishment and pricing decisions under uncertain supply capacity. (Invited) POMS Conference, San Diego, CA, May 2008.
- Successive demand updating and inventory ordering after observations of sales and lost sales. (Invited) INFORMS Annual Meeting, Seattle, WA, November 2007.
- Optimal inventory policy under observed information delays. (Invited) POMS Conference, Dallas, TX, May 2007.

- Evaluating long-term service performance in two-stage newsvendor models. DSI Conference, San Antonio, TX, November 2006.
- Inventory control with observed dynamic delays. INFORMS Conference, Pittsburgh, PA, November 2006.
- Evaluating long-term service performance in two-stage newsvendor models. (Invited) International Conference of Management Sciences: Optimization Models & Applications, Dallas, TX, May 2006.
- Genuine savings and the value of population. (Invited) International Conference of Management Sciences: Optimization Models & Applications, Dallas, TX, May 2006.
- Ordering flexibility and price risk-sharing. (Invited) POMS Conference, Boston, MA, May 2006.
- A two-stage newsboy problem with a long-term service target. INFORMS Conference, San Francisco, CA, October 2005.
- Optimal policies of software maintenance projects. (Invited) INFORMS Conference, San Francisco, CA, October 2005.
- A two-stage newsboy problem with a service constraint. (Invited) POMS Conference, Chicago, IL, May 2005.
- Flexible procurement contract with price risk sharing. DSI Conference, Boston, MA, November 2004.
- Procurement strategy under price risk sharing contract. INFORMS Conference, Denver, CO, October 2004.
- Application development using modifiable off-the-shelf software. (Invited) International Conference on Electronic Commerce Research, Dallas, TX, June 2004.
- Optimal policies for sizing and timing of software maintenance projects. INFORMS Conference, Atlanta, GA, October 2003.

Invited Talks

Washington University (2025), University of Nebraska-Lincoln (2025), Arizona State University (2023), The University of Texas at Austin (2023), University of Iowa (2022), University of California, River Side (2021), Amazon (2021), City University of New York (2021), University of Miami (2020), City University of Hong Kong (2019), Case Western Reserve University (2018), University of Rutgers (2018), University of Utah (2018, 2011), University of Minnesota (2017), Hong Kong Polytechnic University (2017, 2016), Ohio State University (2016), UC Irvine (2016), Boston College (2016), Nanyang University (2016), Texas A&M University (2015), Nanjing University (2015), Duke University (2014), University of Florida (2014), Shanghai Jiao Tong University (2018, 2014,2010), University of Illinois at Urbana-Champaign (2013), University of Cincinnati (2013), Shanghai University of Finance and Economics (2012), University of University of Southern California (2011), University of North Carolina at Chapel Hill (2010,2009), Purdue University (2012), University of Texas at San Antonio (2009), Tsinghua University (2009), Washington at St.

Louis (2006), University of Rochester (2006), University of Alberta (2006), University of Oregon (2006), Southern Methodist University (2006), University of Texas at Austin (2006)

Grants

- October 2019: Purdue University, Blake Family Funds for Ethics (jointly with G. Esenduran, and J.G. Shanthikumar) $60,000
- October 2018: Purdue University, Blake Family Funds for Ethics (jointly with G. Esenduran, M. Lu and J.G. Shanthikumar) $30,000
- October 2013: Purdue University, via OVPR, 12-13 Incentive Grants, Category II, Encouraging & Stimulating Purdue's Emerging Research, #206553. Sponsor Award. Co-PI (jointly with J. G. Shanthikumar) $93,266.
- September 2012: DeVos Research Award, Krannert School of Management, Purdue University. $25,000.
- November 2010: RCG Project Grant A-PK34, Hong Kong Research Grants Council, Co-PI (jointly with X. Gan). $15,000.
- May 2008: HP Collaboration Fund 2008, Hewlett-Packard Laboratories, PI. $17,500.

Patents

- United States 7958037: Method and Apparatus for Product Selection (Co-inventors: Julie Ward Drew, Bin Zhang) Published in June 2011.
- United States 8533016: System and Method for Selecting a Portfolio (Co-inventors: Julie Ward Drew, Bin Zhang) Published in September 2013.
- United States 8639551: Method and System for Workforce Related Resource Planning (Co-inventors: Cipriano Santos and Dirk Beyer). Published in January 2014.

Teaching

Jun. 2012-   Purdue University.

- Master: Strategic Sourcing and Procurement (MGMT 565)
    - Fall 2012 – 2025: In-class version
    - Fall 2021 – 2025: Online version
- Master: Supply Chain Analytics (MGMT 568)
    - Summer 2021 – 2024: Online version
- Master: Global Supply Chain Management (MGMT 590)
    - Fall 2012: In-class version
- MBA Elective: Management of Operating Systems (MGMT661)
    - Fall 2012 –2015: In-class version, Industry Sponsored Projects
- EMBA Elective: Supply Chain Management (MGMT690)
- Fall 2014 – 2015: Hybrid version
- Ph.D. Course: Workshop in OM (MGMT 690)
    - Fall 2012 - 2023: In-class version

May. 2006-Aug. 2006   The University of Texas at Austin.

- Undergraduate core course: Operations Management (OM 335)
- Undergraduate elective: Supply Chain Modeling and Optimization (OM337-2)
- Ph.D. elective: Optimization II (OM380)

Aug. 2005-Aug. 2006 The University of Texas at Dallas.

- Undergraduate core course: Operations and Production Management

Advising

- Post-doc fellow
  - Yang Yang: 2023-2025
- Ph.D. dissertation committee chair /co-chair served:
  - Jian Wu: OM student in Purdue University. Dissertation title: "Operational Data Analytics for Decision Making in Supply Chain." expected graduation in summer 2025. Initially placed at Hong Kong City University.
  - Lei Li: Graduated in summer 2023 from Purdue University. Dissertation title: "Learning and Decision Making under uncertainty." Initially placed at Hong Kong Polytechnical University.
  - Yuanchen Li: Graduated in summer 2020 from Purdue University. Dissertation title: "Interactions in Supply Chains: Consumers, Firms and Policy Makers." Initially placed as an assistant professor at Tongji University, China.
  - Chengzhang Li: Graduated in summer 2019 from Purdue University. Dissertation title: "Emerging Topics in Supply Chain Management: Product Substitution, Demand Ambiguity, and Environmental and Social Responsibility." Initially placed as an assistant professor at Shanghai Jiao Tong University, China.
  - Zhongjie Ma: graduated in fall 2018 from Purdue University. Dissertation title "Dynamic Coordination in Manufacturing and Healthcare." Initially placed at Facebook, CA.
  - Lei Xu: Graduated in spring 2018 from Shanghai Jiao Tong University. Dissertation title: "Study on Subsidy Choice and Promotion Policy based on the Newsvendor Model." Initially placed as an assistant professor at Jiang Nan University, China.
  - Wen Chen: Graduated in summer 2013 from UT Austin. "Optimal Inventory and Pricing Decisions for Supply Chain Management." Initially placed at Providence College.

- Ph.D. dissertation committees served:
  - Jianing Li: graduated in fall 2024 from Purdue University, Dissertation title"Operations Management Problems in the Application of the P2P Platforms: impacts and Regulation."

- o Xuejun Zhao: graduated in fall 2022 from Purdue University, Dissertation title "Data-Integrated Supply Chain Contracts: Learning to Price Under Uncertainty." Initially placed at University of North Carolina at Charlotte.
  - o Jing Chen: Graduated in summer 2017 from Shanghai Jiao Tong University. Initially placed as an assistant professor at Shanghai University of Foreign Language.
  - o Jing Zan: Graduated in spring 2012 from UT Austin IEOR. Dissertation title: "Staffing Large Service Systems under Arrival-Rate Uncertainty."
  - o Gang Li: Graduated in summer 2011 from UT Austin. Dissertation title: "Optimization-based Decision Support for Service Operations Management." Initially at Bentley University.
  - o Haoying Sun: Graduated in fall 2011 from UT Austin. Dissertation title: "Exploring the Impact of Consumer Heterogeneity and Information Asymmetry upon Operating Policies." Initially placed at Texas A&M University.
  - o Liwen Chen: Graduated in spring 2010 from UT Austin. Dissertation title: "Issues in Operations Management and Marketing Interface Research: Competition, Product Line Design, and Channel Coordination." Initially placed at Hong Kong City University.
  - o Burcu Tan: Graduated in fall 2010 from UT Austin. Dissertation title; "Risk Mitigation Strategies for Project Management, Platform Development and Supply Chain Design." Initially placed at Tulane University.
- Master student independent study supervised:
  - o Xiaofan Li, Kairui Jia, Juechen Xia. Fall 2015. "Operations Research." (3 credit hours)
  - o Srikanth Radhakrishna. Spring 2013. "Indian Ice-cream Supply Chain." (3 credit hours)
  - o Jeonghyun Kwak. Spring 2013. "Supply Chain Management at KG Yellow Cap Corporation." (1 credit hour)
  - o Yanbin Shi, Bin Gao, Qiutong Zhang. Fall 2013. "Operations Research." (3 credit hours)
- Undergraduate student independent study supervised:
  - o Abhinav Kumar: Spring 2009. "Survey on Product Design Outsourcing in Electronics Manufacturing Service Industry."