

BINTONG CHEN

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Education

- **Ph.D.** Decision Sciences Department, The Wharton School, University of Pennsylvania, December 1990.
- **M.S.** Department of Systems Engineering, School of Engineering and Applied Science, University of Pennsylvania, August 1987.
- **B.S.** Department of Naval Architecture and Ocean Engineering, Shanghai Jiao Tong University, China, July 1985.
- **B.S.** Electrical Engineering Department, Shanghai Jiao Tong University, China, July 1985.

Employment

- 9/2009 – present: University of Delaware, Newark, Delaware.
 - 9/2013 – present: Faculty Director, Ph.D. Program in Financial Services Analytics;
 - 9/2012 – present: Director, Institute for Financial Services Analytics;
 - 9/2011 – present: Professor of Business Administration with secondary appointment in Civil and Environmental Engineering;
 - 9/2011 – 8/2014: Associate Dean for Research, Lerner College of Business and Economics;
 - 9/2009 – 8/2011: Professor of Civil and Environmental Engineering with joint appointment in Business Administration.
- 4/2007 – present: (Overseas) Dean of the School of Business Administration, Southwestern University of Finance and Economics, China.
- 10/2007 – 12/2010: Adjunct chair professor, Tsinghua University, China.
- 8/1990 – 8/2009: Washington State University, Pullman, Washington.
 - 5/2006 – 8/2009: Don and Mary Ann Parachini Fellow and Professor;
 - 8/2002 – 5/2006: Professor;
 - 8/1996 – 7/2002: Associate Professor;
 - 8/1990 – 8/1996: Assistant Professor.
- 7/1997 – 6/1998: Visiting Professor, Institute of Mathematical Modeling, Technical University of Denmark, Lyngby, Denmark.

- 9/1986 – 5/1990: Teaching and Research Assistant, Decision Sciences Department, The Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania.
- 7/1985 – 8/1985: Assistant Lecturer, Shanghai Jiao Tong University, Shanghai, China.

Student Supervision

- Ph.D. dissertation committee chair:
 1. Y. Yan, “Machine learning models for customer targeting”, Ph.D. expected 2023.
 2. M. Gong, “Consumer lending optimization and model interpretation”, Ph.D. expected 2021.
 3. D. Wang, “Analytic models for financial fraud detection and prevention”, Ph.D. 2018.
 - Current position: Data Scientist at JPMorgan Chase & Co.
 4. X. Huang (co-chair), “Contract strategies with options in supply chains and predictive models for purchasing centralization decisions”, Ph.D. 2013.
 - Current position: Senior Biostatistician at Gilead Sciences.
 5. C. Shi, “Pareto optimal contract for supply chain with satisficing objective”, Ph.D. 2007.
 - Current position: Associate Professor at School of Business & Economics, Wilfrid Laurier University, Canada.
 6. Y. Xia, “Market based supply chain coordination”, Ph.D. 2004.
 - Current position: Associate Professor at Raymond A. Mason School of Business, College of William and Mary.
 7. D. Tracy, “On the nature and use of weights in data envelopment analysis”, Ph.D. 2001.
 - Current position: Professor at School of Business, University of South Dakota.
- Ph.D. dissertation committee member:
 1. D. Zhang, “Information in independent private value auctions”, Ph.D. expected 2019.
 2. J. Peng, “Modeling natural disaster risk management: two-stage stochastic optimization model with homeowner retrofit”, Ph.D. 2013.
 3. M. T. Shourijeh, “A framework for implementation of bus signal priority in a mixed-mode urban grid network”, Ph.D. 2012.
 4. R. Taromi, “A multi-objective land development optimization model”, Ph.D. 2011.
 5. X. Hu, “Purchasing, inventory control, pricing, and contract design under purchasing price uncertainties”, Ph.D. 2008.
 6. S. Yang, “Supply chain sales promotion: the operations and marketing interface”, Ph.D. 2007.
 7. J. Hu, “Supplier selection and matching”, Ph.D. 2004.
 8. K. Chen, “Nonlinear regression properties for conditional Log-returns of assets under scale mixtures: theory and application”, Ph.D. 2002.
 9. J. Yue, “Distribution free optimization procedures with business applications”, Ph.D. 2000.

10. T. Henderson, "Design and evaluation of the effectiveness and efficiency of new technologies in education", Ph.D. 1999.
 11. N. Evaggelopoulos, "Change-point analysis: detection, estimation, and applications", Ph.D. 1999.
 12. R. Venkataramani, "Optimal design and management of local access network", Ph.D. 1998.
 13. C. Lin, "Modern heuristics for combinatorial optimization problems", Ph.D. 1995.
 14. B. Srivastava, "Production planning for flexible manufacturing systems", Ph.D. 1992.
- Master thesis supervisor:
 1. D. Zhang, "Incremental park&ride demand models", M.S. 2014.
 - Undergraduate honor thesis supervisor:
 1. C. Strahl, "Coordinated POS register tape inventory management system for Nordstrom Inc.", (2005).
 2. J. O'Brien, "Productivity analysis for top 50 MBA programs by DEA", received "Pass with Distinction" award, (2004).
 3. M. McClellan, "A model for supplier selection", (2003).
 4. R. Gipe, "Employee optimization system for Homeland Fruit Co., Inc.", received "Pass with Distinction" award, (2002).

Courses Taught

- Production and Operations Management (undergrad and MBA levels).
- Advanced Operations Management (undergraduate level).
- Principles of Optimization (undergraduate level).
- Business Modeling by Spreadsheet (undergraduate and MBA levels).
- Discrete Event Simulation and Modeling (undergraduate level).
- Quantitative Analysis for Management (MBA level).
- Production and Service Operations Management (MBA level).
- Seminar on Operations Research/Management (Ph.D. level).
- Seminar on Optimization Techniques (Ph.D. level).
- Analytics II: Fundamentals of Optimization (Ph.D. level, Spring 2015).
- Production and Operations Management (online class, Fall 2002 - 2008).
- Led Business in China study abroad program (Summers 2007, 2008).
- Large IT Projects and Business Problem Modeling (for JPMC GET program, Winters 2009, 2010).
- Executive Training: Doosan Corporation (1996), Bank of China (2008), JPMC (2012), Goldman Sachs (2013).

Refereed Journal Papers

1. H. Yang, D. Zhang, B. Chen, and B. Gu, “Competitive Consignment Matching: Applications in Supply Chain”, forthcoming, *International Journal of Production Research*, (2019).
2. J. Zhang, B. Chen, and J. Xie, “Benefits of Bilateral Participation in Cooperative Advertising”, forthcoming, *Journal of Operational Research Society*, (2019).
3. W. Li, J. Chen, and B. Chen, “Sourcing strategy of original equipment manufacturer with quality competition”, forthcoming, *Decision Sciences*, (2019).
4. H. Yang, F. Sun, J. Chen, and B. Chen, “Financing decisions in a supply chain with a capital-constrained manufacturer as new entrant”, forthcoming, *International Journal of Production Economics*, (2019).
5. X. Wan, J. Chen, and B. Chen, “Exploring service positioning in platform-based markets”, *International Journal of Production Economics*, (2019), 321-332.
6. J. Chen and B. Chen, “When should the offline retailer implement price matching?”, *European Journal of Operational Research* 274, (2019), 996-1009.
7. D. Wang, B. Chen, and J. Chen, “Credit card fraud detection strategies with consumer incentives”, *The International Journal of Management Science (OMEGA)* 88, (2019), 179-195.
8. W. Li, J. Chen, and B. Chen, “Supply Chain Coordination with Customer Returns and Retailer’s Store Brand Product”, *International Journal of Production Economics* 203, (2018), 69-82.
9. W. Li, J. Chen, G. Liang, and B. Chen, “Money-back guarantee and personalized pricing in a Stackelberg manufacturer’s dual-channel supply chain”, *International Journal of Production Economics* 197, (2018), 84-98.
10. J. Chen, B. Chen, B., and W. Li, “Who should be pricing leader in the presence of customer returns?”, *European Journal of Operational Research*, 265, (2018), 735-747.
11. B. Chen and J. Chen, “Compete in price or service? - A study of personalized pricing and money back guarantee”, *Journal of Retailing* 93, (2017), 154-171.
12. H. Yang, J. Chen, X. Chen, and B. Chen, “The impact of customer returns in a supply chain with a common retailer”, *European Journal of Operational Research* 256, (2017), 139-150.
13. J. Chen and B. Chen, “When to introduce online channel, offer money back guarantees, and personalized pricing?”, *European Journal of Operational Research* 257, (2017), 614-624.
14. J. Chen and B. Chen, “Competing with customer returns policies,” *International Journal of Production Research* 54, (2016), 2093-2107.
15. S. Li, J. Chen, and B. Chen, “Offering downgraded service to enhance profit?”, *Journal of the Operational Research Society* 67, (2016), 302-311.
16. Y. Xia, B. Chen, V. Jayaraman, and C. Munson, “Competition and market segmentation of the call center service supply chain”, *European Journal of Operational Research* 247, (2015), 504-514.

17. A. Fleischhacker, B. Chen, H. Kher, and M. Mazal, "Practice summaries: capacity planning in the presence of sequence dependent setups at AstraZeneca Pharmaceuticals", *Interfaces* 45, (2015), 358-362.
18. S. Yang, C. Munson, B. Chen, and C.M. Shi, "Coordinating contracts for supply chains that market with mail-in rebates and retailer promotions", *Journal of the Operational Research Society* 66, (2015), 2025-2036.
19. R. Taromi, M. DuRoss, B. Chen, A. Faghri, M. Li, and T. DelLiberty, "A multiobjective land development optimization model: the case of New Castle County, Delaware", *Transportation Planning and Technology* 38, (2015), 277-304.
20. J. Yue, J. Austin, Z. Huang, and B. Chen, "Advertising, pricing, and profit sharing in a manufacture-retailer supply chain", *European Journal of Operational Research* 231, (2013), 492-502.
21. J. Zhang, J. Xie, and B. Chen, "Technical Note: Cooperative advertising with bilateral participation", *Decision Sciences* 44, (2013), 193-203.
22. H. Xiong, B. Chen, and J. Xie, "On a composite contract based on buy-back and quantity flexibility contracts", *European Journal of Operational Research* 210, (2011), 559-267.
23. S. Yang, C. Munson, and B. Chen, "Using MSRP to enhance the ability of rebates to control distribution channels", *European Journal of Operational Research* 205, (2010), 127-135.
24. J. Yue, Y. Xia, H. Tran, and B. Chen, "Using frontier portfolio to improve make-to-order operations", *Production and Operations Management* 18, (2009), 226-240.
25. Y. Xia, B. Chen, and P. Kouvelis, "Market-based supply chain coordination by matching suppliers' cost structures with buyers' order profiles", *Management Science* 54, (2008), 1861-1875.
26. S. Wang, J. Yue, B. Chen, and J. Tang, "Treatment design of radio frequency heating based on insect control and product quality", *Postharvest Biology and Technology* 49, (2008), 417-423.
27. C. Shi and B. Chen, "Pareto quantity flexibility contracts for a supply chain under multiple objectives", *Journal of the Operational Research Society* 59, (2008), 685-692.
28. Y. Xia, B. Chen, and J. Yue, "Due date assignment and sequencing a single machine shop with uncertain procession times", *European Journal of Operational Research* 184, (2008), 63-75.
29. C. Shi and B. Chen, "Pareto-optimal contracts for a supply chain with satisficing objectives", *Journal of the Operational Research Society* 58, (2007), 751-759.
30. J. Yue, M. Wang, and B. Chen, "Mean-range based distribution-free procedures to minimize 'overage' and 'underage' costs", *European Journal of Operational Research* 176, (2007), 1103-1116.
31. J. Yue, B. Chen, and M. Wang, "Expected value of distribution information for the news vendor problem", *Operations Research* 54, (2006), 1128-1136.
32. J. Yue, B. Chen, and M. Wang, "Generating ranking groups through pairwise comparisons", *Journal of the Operational Research Society* 57, (2006), 390-396.

33. D. Tracy and B. Chen, "A generalized model for weight restrictions in data envelopment analysis", *Journal of the Operational Research Society* 56, (2005), 390-396.
34. S. Wang, J. Yue, J. Tang, and B. Chen, "Mathematical modeling of heating uniformity of in-shell walnuts in radio frequency units with intermittent stirrings", *Postharvest Biology and Technology* 35, (2005), 97-107.
35. B. Chen, K. Madsen, and S. Zhang, "On characterization of quadratic splines", *Journal of Optimization and Applications* 124, (2005), 93-111.
36. B. Chen and C. Munson, "Resource allocation with lumpy demand: to speed or not to speed?", *Naval Research Logistics* 51, (2004), 363-385.
37. B. Chen and N. Xiu, "Superlinear noninterior one-step continuation method for monotone LCP in absence of strict complementarity", *Journal of Optimization Theory and Application* 108, (2001), 317-332.
38. B. Chen, "Error bounds for R_0 -type and monotone nonlinear complementarity problems", *Journal of Optimization Theory and Applications* 108, (2001), 297-316.
39. B. Chen, X. Chen, and C. Kanzow, "A penalized Fischer-Burmeister NCP-function", *Mathematical Programming* 88, (2000), 211-216.
40. B. Chen and X. Chen, "A global linear and local quadratic continuation method for variational inequality with box constraints", *Computational Optimization and Applications* 17, (2000), 131-158.
41. B. Chen, P.T. Harker, and M. Pinar, "Continuation method for nonlinear complementarity problems via normal mapping", *European Journal of Operational Research* 116, (1999), 591-606.
42. B. Chen and N. Xiu, "A global linear and local quadratic non-interior continuation method for nonlinear complementarity problems based on Chen-Mangasarian smoothing function", *SIAM Journal of Optimization* 9, (1999), 605-623.
43. B. Chen and X. Chen, "Global and local superlinear continuation-smoothing method for $P_0 + R_0$ and monotone NCP", *SIAM Journal of Optimization* 9, (1999), 624-645.
44. B. Chen and M. Pinar, "On Newton's method for Huber's robust M-estimation problems in linear regression", *BIT Numerical Mathematics* 38, (1998), 674-684.
45. M. Pinar and B. Chen, " ℓ_1 solution of linear inequalities", *IMA Journal on Numerical Analysis* 19, (1998), 19-37.
46. B. Chen and M. Guignard, "Polyhedral analysis and decompositions for capacitated plant location-type problems", *Discrete Applied Mathematics* 82, (1998), 79-91.
47. B. Chen and C.S. Lin, "Robust min-max regret one-median location problem on tree", *Networks* 31, (1998), 93-103.
48. B. Chen and P.T. Harker, "Smooth approximations to nonlinear complementarity problems", *SIAM Journal of Optimization* 7, (1997), 403-420.

49. B. Chen and B. Srivastava, "An improved lower bound for the bin packing problem", *Discrete Applied Mathematics* 66, (1996), 81-94.
50. B. Chen and P.T. Harker, "A non-interior continuation method for monotone variational inequalities", *Mathematical Programming* 69, (1995), 237-253.
51. B. Chen, "Special cases of the quadratic assignment problem", *European Journal of Operations Research* 81, (1995), 410-419.
52. B. Chen and P.T. Harker, "A non-interior continuation method for linear complementarity problems", *SIAM Journal of Matrix Analysis and Applications* 14, (1993), 1168-1190.
53. B. Chen and P.T. Harker, "A non-interior continuation method for quadratic and linear programming", *SIAM Journal of Optimization* 3, (1993), 503-515.
54. B. Chen, "Finite convergence of B -differentiable equation based methods for affine variational inequalities", *Applied Mathematics Letters* 5, (1992), 19-24.
55. B. Chen and P.T. Harker, "Two moments estimation of the delay on single-track rail lines with scheduled traffic", *Transportation Science* 24, (1991), 261-275.
56. D. Kraay, P.T. Harker and B. Chen, "Optimal pacing of trains in freight railroads: model formulation and solution", *Operations Research* 39, (1991), 82-99.
57. K.W. Ross and B. Chen, "Optimal scheduling of interactive and noninteractive traffic in telecommunication systems", *IEEE Transaction on Automatic Control* 33, (1988), 261-267.

Book Chapters and Refereed Proceeding Papers

1. J. Yue, J. Austin, Z. Huang, and B. Chen, "A game theory approach to price and advertisement decisions in a manufacturer-retailer supply chain", *2009 DSI Proceedings*, (2009). *The paper has been selected as the "Distinguished Paper in Supply Chain Management Track"*.
2. J. Yue, Y. Xia, H. Tran, and B. Chen, "Sourcing partner selection for manufacturer in a make-to-order supply chain", *2008 DSI Proceedings*, (2008).
3. S. Yang, B. Chen, and C. Munson, "Dynamic transshipment in the digital age", book chapter in Q. Zhang (Ed.) *E-Supply Chain Technologies and Management*, Idea Group, 22-33, (2007).
4. C. Shi and B. Chen, "Coordination of a supply chain with satisficing objectives using contracts", book chapter in Q. Zhang (Ed.) *E-Supply Chain Technologies and Management*, Idea Group, 232-251, (2007).
5. Y. Xia, B. Chen, and J. Yue, "Sequence jobs and assign due dates with uncertain processing times and quadratic penalty functions", book chapter in *Algorithmic Applications in Management*, Lecture Notes in Computer Science, Springer Berlin / Heidelberg, 261-269, (2005).
6. Y. Xia and B. Chen, "Supplier competition and market segmentation under two strategies", *2003 DSI Proceedings*, (2003).
7. J. Yue, B. Chen, and M. Wang, "New approaches to analytical hierarchy process", *2002 DSI Proceedings*, (2002).

8. Y. Xia, B. Chen, and J. Yue, “Due date assignment and sequencing in single machine shop with uncertain process times: a Laplace approach”, *2002 DSI Proceedings*, (2002).
9. B. Chen and C. Munson, “Resource allocation with lumpy demand: to speed or not to speed?”, *Proceedings of the Twelfth Annual Conference of the Production and Operations Management Society*, (2001).

Working Papers

1. J. Chen and B. Chen, “Optimal policy to offer customer incentives for over-booking environment”, working paper, (2012).
2. D. Tracy and B. Chen, “Scaled data envelopment analysis”, working paper, (2007).
3. D. Tracy and B. Chen, “Exploring robustness in data envelopment analysis using a weight-based approach”, working paper, (2002).
4. D. Tracy and B. Chen, “Efficiency vs. effectiveness: can both be measured in data envelopment analysis?”, working paper, (2002).

Invited Presentation and Seminar

1. “Data Science in Education”, moderator of panel discussion, the 2019 University of Delaware Data Science Symposium, Newark, Nov. 15, 2019.
2. “Compete in Price or Service?”, invited session, INFORMS Service Science International, Nanjing, June 26-28, 2019.
3. “Consumer incentive model for secondary verification implementation in credit card fraud detection and prevention”, invited session, 2018 POMS Annual Conference, Houston, May 4-7, 2018.
4. Panelist, Round table discussion “Research in behavioral operations management”, The 9th International Workshop on Behavioral Operations Management, Shenyang, December 16-17, 2017.
5. “Analytical Models for Credit Card Fraud Prevention and Detection”, invited seminar, Nanjing Institute of Technology, Nanjing, October 16, 2017; Northeastern University, Shenyang, December 13, 2017; Northeastern University of Finance and Economics, June 23, 2018.
6. “Dynamic Pricing and Return Pricing for Airline Industry”, invited session, ICCOPT 2016, The fifth International Conference on Continuous Optimization, Tokyo, August 6-11, 2016.
7. “Compete in price or service? - A study of personalized pricing and money back guarantee”, plenary talk, Third International Workshop on Successful Strategies in Supply Chain Management (IWSSSCM3), Hong Kong, January 7-8, 2016; University of Science and Technology of China, Hefei, June 21, 2015; Shuzhou University, Shuzhou, June 24, 2015.
8. Panelist, Forum on “Management Science and Information Management in Big Data Era”, Shanghai, December 14, 2014.

9. “Benefits of Bilateral Participation in Cooperative Advertising”, invited seminar, Decision Sciences Department, Drexel University, May 2, 2014; keynote speaker, 2014 International Conference on Cutting Edge Optimization Techniques and Applications, Beijing, June 28, 2014.
10. “Opportunities and challenges of outsourcing services initiated by financial innovation”, invited discussant, The 5th China BFSI Outsourcing Summit, Kunshan, China, October 15-17, 2013.
11. “New pricing mechanisms under Internet environment”, invited lecture, Dept. of Management Science and Information System, Xiamen University, Xiameng, July 11, 2013; Nanjing University of Science and Technology, July 15, 2014.
12. “New development and trend in operations management and supply-chain management area in US”, keynote speaker, Sino-US Operations Management and Supply-Chain Management Cooperation Forum, Beijing, June 21, 2013.
13. “A Sustainable Model for University-Industry Collaboration: JPMorgan Chase - Syracuse University - University of Delaware”, invited speaker (with J. Saltz and R. Heckman), AACSB Associate Deans Conference, Houston, November 12-14, 2012.
14. “Competing with Customer Returns Policies”, (with J. Chen), INFORMS, October 14-17, 2012, Phoenix.
15. “Introduction to Spreadsheet Optimization”, invited lecture for all freshman engineering students at University of Delaware, September 15, 2011.
16. “Game Theoretic Models for Sponsored Search Auction,” invited lecture, Workshop on the Recent Development of Optimization Theory and Applications, Beijing, June 18-19, 2011.
17. “Bilateral Participation: A Coordinating Mechanism for Cooperative Advertising in a Distribution Channel with Multiple Retailers”, plenary speaker, the Bi-annual National Operations Research Conference of China (ORCC), Beijing, October 16-18, 2010; Keynote speaker, 2011 International Conference on System Management and Informationization of Small and Medium Enterprises, June 24-26, 2011.
18. “Current status and future of supply chain management”, invited panel discussant, 2009 DSI Meeting, New Orleans, November 14-17, 2009.
19. “Competition, matching, and coordination in supply chain management”, plenary speaker, the Seventh Academic Meeting of Mathematical Programming, the Operations Research Society of China, Dalian, August 6-9, 2008.
20. “Monopoly supplier’s negotiation strategy and its impact on supply chain efficiency”, invited speaker, Workshop on Supply Chain Management, Hunan University, Hunan, June 29-30, 2008.
21. “Analysis of mail-in-rebate promotion with reference-dependent consumers”, invited speaker, Workshop on Supply Chain Management and Game Theory, Tsinghua University, Beijing, December 21-22, 2007.
22. “Supply chain coordination by matching suppliers with buyers”, invited seminar, Chinese Academy of Science, December 6, Beijing University, December 24, 2007.

23. “Concepts and current issues of supply chain management”, invited lecture, Dongfang Electric Corporation, Chengdu, July 18, 2007.
24. “Analysis and solutions of queuing problems in Chinese banks”, invited talk, Bank of China, Chengdu, July 14, 2007.
25. “The effect of rebates and MSRP on manufacturer profitability in a supply chain”, invited session, POMS 2007 Conference, Dallas, May 4-7, 2007.
26. “Supply chain coordination with contracts”, invited lecture, Workshop On Optimization and Applications organized by Tsinghua University, China, July 9-11, 2006.
27. “Distribution-free newsvendor problem”, plenary speaker, Fifth International Conference on Information and Management Sciences, Kunming, China, July 1-8, 2005.
28. Invited discussant for “Risk-averse newsvendor networks: resource sharing, substitution, and operational hedging”, Mini-Conference on Integrated Risk Management in Operations and Global Supply Chain Management, Washington University, St. Louis, June 2004.
29. “Research in newsvendor and information”, invited seminar, Boeing Center for Technology, Information and Manufacturing, Washington University, St. Louis, April 2004.
30. “On the benefits of supply chain coordination in supply chains with economies of scale”, invited session, INFORMS National Meeting, Atlanta, October 2003.
31. “Market share and pricing for multiple suppliers in a two-echelon supply chain”, invited session, INFORMS National Meeting, San Jose, November 2002.
32. “Smoothing methods for complementarity problems”, invited seminar, Department of Mathematics, Washington State University, November 1999.
33. “Non-interior-continuation method: review and new results”, sponsored session, INFORMS National Meeting, Seattle, October, 1998.
34. “Newton’s Method for Huber’s M-estimator Problem”, invited seminar, University of New South Wales, Sydney, Australia, February 1998.
35. “Error Bounds for Nonlinear Complementarity Problems”, invited seminar, Academia Sinica and Northern Jiao Tong University, Beijing, China, February 1998.
36. “Global and Local Superlinear Continuation-Smoothing Method for $P_0 + R_0$ and Monotone NCP”, invited session, the International Symposium on Mathematical Programming in Lausanne, Switzerland, August 24-29, 1997.
37. “Continuation method for nonlinear complementarity problems via normal mapping”, Invited speaker, the International Conference on Nonlinear Complementarity Problems, Baltimore, MD, November 1995.
38. “Lower bounds on several capacitated set partitioning problems”, invited seminar, Department of Systems and Industrial Engineering, University of Arizona, November 1993; Department of Systems and Industrial Engineering, Chinese University of Hong Kong, February 1994.

39. “Projected Newton’s method for SC^1 optimization with bound constraints”, invited seminar, Department of Mathematics, Washington State University, April 1992.
40. “A continuation method for monotone variational inequality and complementarity problems: with application to linear and nonlinear programming”, invited seminar, Graduate School of Business, Washington University, January 1990; Department of Management Science and Information Systems, University of Texas at Austin, February 1990.
41. “Real time and tactical scheduling of trains”, invited talk, American Airline Decision Technologies, January 1990.
42. “A continuation method for nonlinear complementarity problems”, invited session, ORSA/TIMS National Meeting, Nashville, May 1991.
43. “A new continuation method for linear programs and linear complementarity problems”, invited session, ORSA/TIMS National Meeting, Philadelphia, October 1990.
44. “Nonlinear equation methods for solving variational inequalities: theory and applications”, invited session, ORSA/TIMS National Meeting, Las Vegas, May 1990.
45. “Optimal Load balancing and scheduling in a distributed computer system”, sponsored session, ORSA/TIMS National Meeting, Denver, October 1988.

University Service

At University of Delaware:

- Member, OM faculty search committee for BUAD department, 2019.
- Member, UD Graduate College Bylaws Ad Hoc Committee, June 2018 - Feb. 2019.
- Invited Member, FINC P&T Committee for full professor promotion, September 2018.
- Chair, BUAD Chair Search Committee, July 2017 - Dec. 2018.
- Chair, P&T committee, Department of Business Administration, Sept. 2016 - Aug. 2017.
- Member, University Research Council, 2011 -.
- Chair, Graduate Program Committee for Ph.D. program in Financial Services Analytics, Feb. 2013 -.
- Panelist, 2015 Lerner Decision Day, April 2015.
- Member, UD Graduate Tuition Committee, Aug. 2014 - Feb. 2015.
- Member, UD Strategic Planning Subcommittee on Grand Challenges, Great Debates, and Big Ideas, May 2014 - May 2015.
- Panelist, 2013 New Faculty Research Orientation, Nov. 7, 2013.
- Reviewer, USRF-SI grant proposal review and selection 2013, 2014.
- Member, Faculty search committee for BUAD department, 2013.

- Member, University Research Computing Advisory Committee, 2012 - 2014.
- Member, Faculty search committee for Whitney Chair of Accounting-MIS department, 2012.
- Member, Ad hoc research committee for BUAD department, 2012.
- Member, Global Research Consortium, University of Delaware, Oct. 2011 - 2012.
- Member, Promotion and Tenure Committee, Lerner College of Business, Sept. 2011 - 2012.
- Coordinator, JPMC Collaborative Research Program, 2010 - Oct. 2011.
- Member, Lerner College of Business Dean's Search Committee, 2010.
- Member, Stochastic Process Faculty Search Committee, Dept. of Mathematics, 2010.
- Member, Ad hoc committee to develop strategies to enhance resources for statistics, 2010.
- Member, College of Engineering Entrepreneurship Program Steering Committee, 2010.
- Member, JPMC GET program curriculum committee, 2009.

At Washington State University (after 2000):

- Member, WSU Faculty Excellence Award Selection Committee, August 2008 -.
- Member, CB Curriculum Liaison with Boeing Corp., January 2008 -.
- Member, CB Tenure and Promotion Committee, October 2007 -.
- Member, CB EMBA Curriculum Committee, August 2007 -.
- Member, CB Study Abroad Scholarship Committee, November 2007 -.
- Member, Honors College Council, May 2006 -.
- Member, CB Undergraduate Curriculum Committee, August 2003 -.
- CB International Business Program Fellow, September 2003 -.
- Member, Provost's Implementation Team for the Strategic Planning, June 2002 - December 2007.
- CB Journal Ranking Task Force, 2004 - 2006.
- Faculty Adviser, Chinese Student and Scholar Association, 1998 - 1999, 2003 -.
- Member, Provost's Work Group to Improve Student Learning in Large Classes, 2005.
- Member, President's Teaching Academy Advisory Board Selection Committee, 2004.
- Member, Academic Affairs Committee, August 2001 - December 2003.
- Member, CB Undergraduate Core Course Task Force, Fall 2002 - December 2003.
- President, Pullman Chinese Culture Center, 2003.
- Chair, Selection committee for Annual International Business Institute Outstanding Article Award, 2002.
- Invited Speaker, local NAPM chapter, November 2000 and March 2001.
- Member, CB Award Committee, 2000 - 2002.

Professional Service

- Area Editor, *The International Journal of Management Science (OMEGA)*, 12/19 -.
- Senior Editor, *Production and Operations Management*, 8/03 - 12/16.
- Editorial Board, *International Transactions in Operations Research*, 7/15 -.
- Advisory Board, *American Journal of Operations Research*, 9/11 -.
- Editorial Advisory Board, *American Journal of Business*, 7/12 - 2/18.
- Editorial Advisory Board, *Financial Innovation*, 9/14 -.
- Editorial Board, *International Journal of Mathematics in Operational Research*, 5/08 -.
- Member of Final Review Panel, Management Science Division, National Natural Science Foundation of China, 2012-2016.
- Board Member, Panzhihua Iron and Steel (Group) Company Limited, China, 2018.
- Board Member, Deakin Business School International Advisory Board, 2017 -.
- Board Director-At-Large, APICS, the Association for Operations Management, 2012, 2013, 2014.
- Advisory Board Member, YCC International, 1/07 - 8/09.
- Member, Academic Committee, The 11th International Workshop on Behavioral Operations Management, Beijing, December 14-15, 2019.
- Organizer, 2019 IFSA Annual Conference on Machine Learning and Financial Services, University of Delaware, Delaware, November 8, 2019.
- Chair, Program Committee, Operations and Marketing under the Influence of Social Network - An International Research Forum, Nanjing, June 23-24, 2018.
- Member, Academic Committee, The 10th International Workshop on Behavioral Operations Management, Guangzhou, December 15-16, 2018.
- Member, Academic Committee, The 9th International Workshop on Behavioral Operations Management, Shenyang, December 16-17, 2017.
- Member, Program Committee, 2017 Service System Engineering Conference & 2017 IEEE Symposium on Analytics and Risk, Shanghai, July 7-9, 2017.
- Member, Workshop Program Committee, The 7th International Workshop on Behavioral Operations Management, Tianjin, December 18-19, 2015.
- Organizer, 2015 IFSA Annual Conference on Risk Management & Analytics for Good, University of Delaware, Delaware, February 19, 2015.
- Member, Workshop Program Committee, The 6th International Workshop on Behavioral Operations Management, Shanghai, December 15-16, 2014.

- Co-Chair, Workshop Program Committee, The 5th International Workshop on Behavioral Operations Management, Dalian, December 18-19, 2013.
- Organizer, 2013 IFSA Annual Conference on Consumer Analytics & Industry Applications, University of Delaware, December 6, 2013.
- Chair, Organization Committee, The 4th International Workshop on Behavioral Operations Management, Chengdu, December 15-16, 2012.
- Organizer, 2012 IFSA Annual Conference on Big Data, Analytics & Industry Implications, University of Delaware, October 19, 2012.
- Session Chair, INFORMS International Conference, Beijing, June 24-27, 2012.
- Co-Organizer, Research Forum on “Green Data Center”, a joint tele-conference by IFSA of University of Delaware, Syracuse University, IBM, and JPMC, April 13, 2012.
- Member of Organization Committee, The 3rd International Workshop on Behavioral Operations Management, Beijing, December 18-19, 2011.
- Vice Chairman of Organization Committee, The 6th Management Annual Meeting of China, Chengdu, September 24-25, 2011.
- Member of Organization Committee, 2011 International Conference on System Management and Informationization of Small and Medium Enterprises, Zhengjiang, June 24-26, 2011.
- Member of Organization Committee, The 2nd International Workshop on Behavioral Operations Management, Beijing, December 17-19, 2010.
- Member of Organization Committee, The 1st Workshop on Behavioral Operations Management, Beijing, December 19-20, 2009.
- Organizer and host, Workshop on Earthquake Recovery Planning and Management, Chengdu, June 15-16, 2008.
- Member of Organization Committee, Workshop on Supply Chain Management and Game Theory, Beijing, December 21-22, 2007.
- Member of Organization Committee, Summer School on Frontiers of Research in Supply Chain Management, Beijing, June 2007.
- Member of International Program Committee, The 11th Annual Conference of Asia Pacific Decision Science Institute (APDSI 2006), Hong Kong, June 2006.
- Member of Organization Committee, Summer School on Stochastic Models of Supply Chain and Logistics, Beijing, August 2006.
- Reviewer for *Operations Research*, *Management Science*, *Production and Operations Management*, *Transportation Science*, *European Journal of Operational Research*, *Annals of Operations Research*, *Networks*, *Mathematical Programming*, *SIAM Journal of Optimization*, *Journal of Optimization Theory and Applications*, *SIAM Journal of Matrix Analysis and Applications*, *Mathematics of computation*, *Mathematics of Operations Research*, *INFORMS Journal on Computing*, *Computational Optimization and Applications*, *Location Sciences*,

Applied Mathematics Letters, BIT Numerical Mathematics, Journal of Computational and Applied Mathematics, Journal of Applied Mathematics and Optimization, Journal of Global Optimization, Optimization and Engineering, and International Journal of Operations and Quantitative Management.

Grants, Projects, and Consulting Activities

- “Study of New Pricing Mechanisms Under Internet Environment”, PI, 2,270,000 RMB, funded by Chinese Natural Science Foundation (71331004), 2014-2018.
- “Incremental Park & Ride Demand Mode- Part II”, PI, \$65,905, funded by Delaware Department of Transportation, 2013.
- “Formulation Capacity Modeling Tool for AstraZeneca Newark”, PI, \$30,996, funded by AstraZeneca, 2013.
- “Study of Auction Mechanism and Competition Strategy for Internet Search Engines”, PI, 389,000 RMB, funded by Chinese Natural Science Foundation (71171165), 2012-1015.
- “Using Metrics for Continual Improvement in Application Delivery at JPMC”, Co-PI, \$102,637, funded by JPMC, 2011-2012.
- “Process Improvement and Optimization for Enterprise Storage Service Management”, Co-PI, \$147,422, funded by JPMC, 2011-2012.
- “Credit Rating for Small and Medium Companies”, PI, 1,000,000 RMB, funded by Agriculture Bank of China, 2011-2012.
- “Incremental Park & Ride Demand Model- Part I”, PI, \$65,905, funded by Delaware Department of Transportation, 2010 - 2011.
- “Achieving Process Intelligence via Process Mining”, Co-PI, \$100,000, funded by JPMC, August - December 2010.
- “Teaching Innovations Based on Information Technology”, PI, 360,000 RMB, funded by Chinese Educational Ministry, 2009.
- “Emergency Management and Recovery Process for the Wenchuan Earthquake”, PI, 70,000 RMB, funded by Chinese Natural Science Foundation (70841014), 2008.
- International Exchange and Collaboration Grant, Co-PI, 200,000 RMB, Chinese Natural Science Foundation (G01-00510807), 2006.
- Undergraduate Teaching and Learning Improvement Grant, Washington State University, \$25,000, 2004.
- Supervised a inventory management project for Nordstrom Inc. that led to a projected \$248,040 annual product cost savings, 2004.
- Supervised a process improvement project for calling centers of Cascade Natural Gass Corporation that led to a projected \$1 million annual savings, 2004.

- Supervised a process improvement project for the calling center of a Key Bank branch in Washington State that led to more efficient and better quality service to its customers, 2002.
- Supervised a shrinkage reduction project for Northwest Dairy Farm that led to more than \$250,000 savings annually, 2002.
- Research Fellowship, Danish Natural Science Research Council, 7/1997-6/1998.
- NATO Collaborative Research Grant, Co-PI, BF 184,000, 1994-96.
- Research Grant-in-aid, Washington State University, \$10,000, 1993.
- Participated a Burlington Northern Railroad scheduling project to develop a train scheduling and evaluation system. The resulting software system is currently in use, 1988-1990.
- Participated an AT&T overseas network planning project to schedule data transmission in a AT&T telecommunication network, 1986-1987.

Awards and Distinctions

- MBA Teaching Award, Lerner College of Business and Economics, University of Delaware, 2019, 2018, 2013.
- Outstanding Scholar Award, Lerner College of Business and Economics, University of Delaware, 2018.
- Distinguished Research Award, Department of Business Administration, University of Delaware, 2015-2016.
- The Don and Mary Ann Parachini Faculty Fellowship, College of Business, Washington State University, 2006–2009.
- Outstanding Advisor Award, Graduate and Professional Student Association, Washington State University, 2007.
- College of Business Outstanding Faculty Teaching Award, Washington State University, 2004, 2007.
- College of Business Dean’s Excellence Fellow, Washington State University, 2004, 2006, 2007.
- Listed in “Who’s Who Among American Teachers”, 2005.
- The finalist of Marian E. Smith Faculty Achievement Award, Washington State University, 2003.
- College of Business Outstanding Research and Scholarship Award, Washington State University, 1998.
- University of Pennsylvania Fellowship, 1987–1988.
- Named “Extraordinary Student”, Shanghai Jiao Tong University, China, 1982–1985.