

JIM (JUNMIN) SHI

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ACADEMIC POSITIONS

- Tuchman School of Management, New Jersey Institute of Technology, Newark, NJ
 - Leir Chair Professor 7/2022-Present
 - Master Teacher 7/2022-Present
 - Hurlburt Chair Professor 7/2019-6/2022
 - Associate Professor (with tenure) 6/2017-Present
 - Assistant Professor 9/2014-5/2017
- Robinson College of Business, Georgia State University, Atlanta, GA
 - Assistant Professor 8/2010-8/2014
- Rotman School of Management, University of Toronto, Toronto, Canada
 - Visiting Professor 12/2013-3/2014
- Hong Kong University of Science and Technology, Hong Kong
 - Visiting Professor 2018, 2020
 - Visiting Scholar 5/2012-6/2012
- Rutgers Business School, Rutgers University, Newark, NJ
 - Visiting Professor (during Sabbatical Leave) 10/2020-5/2021
 - Instructor 2008-2010, 2018

EDUCATION

Ph.D., MBA	Dept. of Supply Chain Management & Marketing Sciences Rutgers Business School, Rutgers University, NJ	8/2006-7/2010
ME	The Grove School of Engineering, City College of New York, CUNY, NY	2/2004-8/2006
MS	Applied Mathematics Department, Shanghai JiaoTong University, Shanghai, China	9/2001-2/2004

RESEARCH INTEREST

- Supply Chain Management
- Technology for SCM (e.g., Blockchain, Data Sciences)
- FinTech and Business Analysis
- Agricultural Supply Chain (Food Supply Chain, Agribusiness and AgriTech)
- Transportation and Logistics
- Healthcare Operations Management
- Supply Chain Risk, Resiliency and Sustainability
- Interface between Marketing, Finance and Operations Management

EDITORIAL SERVICE

- Associate Editor: **Decision Sciences Journal (DSJ)**, 2020-2023.
- Associate Editor: **Omega**, The International Journal of Management Science, 2021-2024.
- Editorial Board: **Production and Operations Management**, (POMS), 2020-Present.
- Guest Editor: **FinTech**, 2022-2024
- Guest Editor: **Mathematics**, 2022-2024
- Associate Editor: **Data Science and Management (DSM)**, 2020-2022

SELECTED PUBLICATIONS

- [J1]. Yang J. and J. Shi, "Discrete-item Inventory Control involving Unknown Censored Demand and Convex Inventory Costs", *Production and Operations Management* (POMS), 2022.
- [J2]. Tian, X., J. Shi and X. Qi, "Sequential stochastic allocation for creative crowdsourcing", *Production and Operations Management* (POMS), 31(2), 697-714, 2022.
- [J3]. Wang, J., Z. Dai, J. Shi, H. Liu, "Robust Surgical Scheduling for Non-Operating Room Anesthesia (NORA) under Surgical Duration Uncertainty", *Decision Sciences Journal* (DSJ), forthcoming, 2022.
- [J4]. Wu, J., PW. Zhang, Y. Wang, J. Shi, "Integrated Aviation Model and Metaheuristic Algorithm for Hub-and-Spoke Network Design and Airline Fleet Planning", *Transportation Research Part E: Logistics and Transportation Review*, 164, 102755, 2022.
- [J5]. Dai, Z., J. Wang and J. Shi, "How does the hospital make a safe and stable elective surgery plan during COVID-19 pandemic?" *Computers & Industrial Engineering* (CAIE), 169, 108210, 2022.
- [J6]. Wang, J., Z. Dai and J. Shi, "Surgical scheduling by Fuzzy model considering inpatient beds shortage under uncertain surgery durations." *Annals of Operations Research* (ANOR), 2022.
- [J7]. Li, Z., J. Wang, S. Perera and J. Shi, "Coordination of a supply chain with Nash bargaining fairness concerns", *Transportation Research Part E: Logistics and Transportation Review*, 159, 102627, 2022.
- [J8]. Wang, J., Z. Dai, W. Zhang, J. Shi, Operating Room Scheduling for Non-Operating Room Anesthesia (NORA) with Uncertain Emergency Arrivals, *Annals of Operations Research* (ANOR), 2022.
- [J9]. Chang, A., N. El-Rayes and J. Shi, "Blockchain Technology for Supply Chain Management: A Comprehensive Literature Review". *FinTech*, 1(2), 191-205, 2022.
- [J10]. Chang, A., M.N. Katehakis, J. Shi and Z. Yan "Blockchain-empowered Newsvendor optimization", *International Journal of Production Economics* (IJPE), 238, 108144, 2021,
- [J11]. Wang, J., Z. Li, A. Chang, and J. Shi, "Capacity Reallocation via Sinking High-Quality Resource in a Hierarchical Healthcare System", *Annals of Operations Research* 300(1), 97-135, 2021.
- [J12]. Wang, J., Z. Li, J. Shi, A. Chang, "Hospital Referral and Capacity Strategies in Two-Tier Healthcare Systems", *Omega, The International Journal of Management Science*, 100, 102229, 2021.
- [J13]. Gao, L. J. Shi, M. Gorman and T. Luo, "Business Analytics for Intermodal Capacity Management", *Manufacturing & Service Operations Management* (MSOM), 22(2), 310-329, 2020.
- [J14]. Lu, H., Chen, X., Shi, J., Vaidya, J., Atluri, V., Hong, Y., & Huang, W. "Algorithms and Applications to Weighted Rank-one Binary Matrix Factorization". *ACM Transactions on Management Information Systems* (TMIS), 11(2), 1-33, 2020.
- [J15]. Shi, J. Y., Zhao, K. Kiwanuka and A. Chang "Optimal Selling Policies for Farmer Cooperatives", *Production and Operations Management* (POMS), 28(12), 3060-3080, 2019.
- [J16]. Chang, A., H. Lu, J. Shi "Stock-Out Risk Control of the Production/Inventory System with Compound Poisson Demands", *Omega, The International Journal of Management Science*, 83, 181-198, 2019.
- [J17]. Shi, J. "Optimal Production/Inventory Systems Subject to Stock-Out Risk", *Annals of Operations Research*, DOI: 10.1007/s10479-016-2339-5, 2017.
- [J18]. Katehakis, M.N., B. Melamed and J. Shi, "Cash-Flow Based Dynamic Inventory Management", *Production and Operations Management Society* (POMS), 25(9), 1558-1575, 2016.
- [J19]. Xiao, T. and J. Shi, "Supply Priority and Contract in a Dual-Channel Supply Chain", *European Journal of Operational Research* (EJOR), 254: 813-823, 2016.
- [J20]. Chang A., and J. Shi, "Pricing American Option via the Transform-Expand-Sample Forecasting Methods", *Journal of Business and Economics*, Paper ID: JBE20160824-2, Volume 7, No. 11, pp. 1756-1763, 2016.
- [J21]. Katehakis, M.N., B. Melamed and J. Shi, "Optimal Time-Average Cost for Inventory Systems with Compound Poisson Demands and Lost-sales", *Annals of Operations Research*, DOI 10.1007/s10479-015-1998-y, 2015.

- [J22]. Qi, L., J. Shi and X. Xu "Supplier Competition under the Dual-sourcing Setting", **Omega** (the International Journal of Management Science), 55, 91-110, 2015.
- [J23]. Shi, J. M.N. Katehakis, B. Melamed, Y. Xia, "Optimal Continuous Replenishment for a Production-Inventory System with Compound Poisson Demands and Lost-sales", **Operations Research (OR)**, 6(5): 1048 - 1063, 2014.
- [J24]. Shi, J. X. Yue and Y. Zhao, "Operations Sequencing under Yield Loss", **Naval Research Logistics**, 61(2), 144-154, 2014.
- [J25]. Shi, J. and Y. Zhao "The Value of Component Commonality under Non-Holdback Allocation Rules", **Operations Research Letters**, 42 (6-7), 409 - 413, 2014.
- [J26]. Shi, J., M.N. Katehakis and B. Melamed, "Martingale Methods for Pricing Inventory Penalties under Continuous Replenishment and Compound Renewal Demands", **Annals of Operations Research**, 208 (1), 593-612, 2013.
- [J27]. Shi, J., Y. Sun, X. Zhang and J. Xiao "Random Access Channel with Retransmission Gain." **IEEEK Transactions on Smart Processing and Computing**, vol. 1, no. 1, September 2013. (*Lead author and Corresponding author).
- [J28]. Shi, J. and Y. Zhao, "Some Structural Results on Acyclic Supply Chains", **Naval Research Logistics**, Vol. 57, No. 6, 605-613, 2010.
- [J29]. Shi J., and A. Chang, "Revenue and Duration of Oral Auction", **Journal of Service Science and Management**, Vol. 2, No. 4, 368-377, Dec. 2009.
- [J30]. Sun, Y. and J. Shi, "Retransmission diversity in large CDMA random access systems," **IEEE Trans. on Signal Processing**, vol. 55, No. 7, July 2007.

BOOK CHAPTERS

- [J31]. Shi, J. and C.F. Lee, Chapter 82, "Application of alternative ODE in Finance and Economics research" in *Handbook of Quantitative Finance and Risk Management*, (Editor: C. F. Lee), Springer, 2009.
- [J32]. Yang, J., Y. Xia and J. Shi, "A Game of Competitive Investment: Over-capacity and Under-learning", (2015). *Supply Chain Management and Logistics: Innovative Strategies and Practical Solutions*. (Eds: Liang, Z., Chaovaitwongse, W. A., & Shi, L.) CRC Press.

INVITED TALKS

- Princeton University, Panel Discussant, the 5th Annual Princeton SmartDrivingCars, NJ, June 2-4, 2022.
- NEDSI Annual Conference, **Conference Panelist**, Newark, NJ, April 7-9, 2022.
- Logistics and Distribution Institute (LoDI), **Keynote Speech**, the conference of Reflections on Covid-19 Disruptions and Future Visions for Logistics Industry, Sept. 23rd-24th, 2021.
- Worcester Polytechnic Institute (WPI), Foisie Business School, April 9th, 2021.
- NanKai University, TianJin, China, Zoom Online, Mar. 29th, 2021.
- Prudential, Headquarter in Newark, NJ, May 2020
- Wake Forest University, School of Business, Winston-Salem, NC, Jan. 2019
- Hong Kong Polytechnic University, Dept. of Logistics and Maritime Studies, HK, Aug. 6th, 2018
- Hong Kong Baptist University, Dept. of Mathematics, HK, Aug. 3rd, 2018.
- Nanjing University, Nanjing, China, July 10, 2018.
- Nankai University, Tianjin, China, July 7, 2018.
- Stevens Institute of Technology, the School of Business, Feb. 2017.
- University of Toronto, Rotman School of Management, Toronto, Jan. 2014.
- University of Hong Kong, Management Department, Business School, HK. Jan. 2013.
- Case Western Reserve University, Dept. of Operations, Cleveland, OH. Dec. 2012.
- Chinese University of Hong Kong, Dept. of Operations Management, Business School, 2013.

FEDERAL GRANT

- [1] USDA, Primary Investigator (PI), Repositioning Empty Containers for Agricultural Container Logistics, 9/19/2016 – 11/18/2018.
- [2] United States Department of Agriculture (USDA), Impacts and Implications of Transportation Networks on Food Distribution and Accessibility: Rural vs. Urban, 8/15/2021 – 8/31/2022, collaborating with University of Wisconsin-Madison.
- [3] United States Department of Agriculture (USDA), Impact of Rising Diesel Prices and Truck Driver Availability on Food Transportation and Distribution. 7/30/2022 – 6/30/2023.

OTHER GRANTS

2022	MTSM RETDIC Faculty Seed Grant Award (PI)
2019, 2022	Faculty Seed Grant by Leir Research Institute (Co-PI)
Dec. 2018	IBM Faculty Research on Blockchain Technology
Sept. 2018	Faculty Seed Grant for Silver Economy, NJIT
May 2015	Leir Seed Research Grant for Health Care, NJIT
Nov. 2014	Faculty Seed Research Grant, NJIT
2014-2015	Connaught Start-Up Award, NJIT
2011-2012	2012 RCB Research Grant, Georgia State University
2009-2010	Dean's fund for summer research, Rutgers University;
2007-2009	RRC Grant, "Analyzing Financial Time Series with ARM Models"; Rutgers.

GOVERNMENT GRANT REVIEW:

- Federal Grant Review: Department of Homeland Security Office of University Programs, 2022 (Invited)
- National Natural Science Foundation of China (NSFC) 2022 (Invited)
- Research Grants Council (RGC) of Hong Kong 2022 (Invited), reviewed multiple proposals.
- Israel Science Foundation (ISF) 2021 (Invited).
- Hong Kong Research Grants Council (RGC) 2021 (Invited).
- National Natural Science Foundation of China (NSFC) 2021 (Invited, reviewed 18 submitted projects).
- Hong Kong Research Grants Council (RGC) 2020 (Invited).
- Hong Kong Research Grants Council (RGC) 2019 (Invited).

PROFESSION AND PROFESSIONAL SOCIETIES

- CSCMP (*Council of Supply Chain Management Professionals*)
- INFORMS (*Institute for Operations Research & Management Sciences*)
- POMS (*Society of Production and Operations Management*)
- DSI (*Decision Science Institute*)
- ASCM (*Association for Supply Chain Management, aka. APICS*)

TEACHING EXPERIENCE

- **Tuchman School of Management, NJIT:**
 - *Blockchain Technology for Business*
Average Teaching Effectiveness **4.0/4.0** (College mean 3.17);
 - *Data-Driven Financial Modeling*
Average Teaching Effectiveness **3.95/4.0** (College mean 3.17);
 - *Business Data Analytics* (Business Statistics)
Average Teaching Effectiveness **3.7/4.0** (College mean 3.17);
 - *Business Research Methods*
Average Teaching Effectiveness **3.67/4.0** (College mean 3.2).

- **Robinson College of Business, GSU:**
 - Regular MBA, PMBA, EMBA and Ph.D. students**
 - *Business Modeling in Operations Management*
Average Teaching Effectiveness **4.5/5.0** (College mean 4.4);
 - *Management Science*
Average Teaching Effectiveness **4.4/5.0** (College mean 4.4);
 - *Spreadsheet Modeling*
Average Teaching Effectiveness **4.6/5.0** (College mean 4.4);
 - Undergraduate**
 - *Business Modeling in Operations Management* (RCB Honors Program)
Average Teaching Effectiveness **5.0/5.0**
 - *Business Analysis* (MGS3100),
Average Teaching Effectiveness **4.7/5.0** (College mean 4.4);
 - *Optimal Resource Allocation - Critical Thinking Through Writing*
Average Teaching Effectiveness **4.5/5.0** (College mean 4.4).

- **Rutgers Business School:**
 - *Production and Operations Management*
Average Teaching Effectiveness **4.4/5.0** (Dept. mean 3.76);
 - *Business Research Methods*
Teaching Effectiveness **4.67/5.0** (Dept. mean 4.12);
 - *Introduction to Supply Chain Management*
Average Teaching Effectiveness **4.23/5.0** (Dept. mean 4.02).

CONFERENCE ORGANIZING AND HOSTING

- 1). **Conference Moderator**, Leir Research Institute Conference 2021
Theme: **Disruptive Technologies, Regulations, & Business: Implications in FinTech Industry**
Friday, August 27, 2021, 9:00 a.m. – 1:00 p.m. Virtual WebEx Event,
- 2). **Conference Chair**, Leir Research Institute Conference 2020
Theme: **Disruptive Technologies, Regulations, & Business: Implications in Biotech Industry**
Friday, August 14, 2020, 9:00 a.m. – 1:00 p.m. Virtual WebEx Event,
Gather 141 participants worldwide.
- 3). **Conference Co-Chair**, Leir Research Institute Conference 2019,
Conference Theme: **Well-being, Connectedness and Resilience**
Monday, April 15, 2019, 9:30 a.m. – 6:00 p.m. Campus Center Atrium, New Jersey Institute of
Technology, Newark, New Jersey, gathered 155 senior member participants.
- 4). **Conference Co-Chair**, Leir Research Institute Summit
May 2, 12pm - May 3, 1pm, 2019, Leir Retreat Center, gathered 35 participants.
- 5). **Conference Organizer**, Rutgers Applied Probability Conference, Rutgers Business School - Newark and
New Brunswick, Newark, NJ, November 16, 2018.

COMMUNITY AND INTERNATIONAL SERVICE

- CSCMP NY/NJ Roundtable, Board, Jan. 2022-present
Co-chair for Education of the Council of Supply Chain Management Professionals (CSCMP)
Mentoring students and young professionals in Supply Chain Management
Organizing Education related events under the leadership of CSCMP; Overseeing scholarships
Spotlighted by the CSCMP Community as a leading expert in the Supply Chain area, 2022
- 2022 Digital Supply Chain and Supplier Diversity Conference, June 2-3, 2022, Live and Virtual.
Best Conference Paper Committee.
- 2021 INFORMS Conference on Service Science (ICSS2021) Aug. 10-12, 2021, Live and All-Virtual.
Best Conference Paper Committee and Judge
- AFROS (the **African Federation of Operations Research Societies**)
Board member and advisor
Charing for the 50th Annual Conference of the Operations Research Society of South Africa (ORSSA), in
collaboration with AFROS, September 12-15, 2021.
- 2021 Post-Pandemic Supply Chain and Healthcare Management Conference, June 3-4, 2021,
Best Conference Paper Committee
- Reference for Faculty Tenure & Promotion (invited for a number of candidates)

SELECTED HONORS

2022	INFORMS Prize for Teaching OR/MS Practice (International)
2022	Poets & Quants' list of the 50 Best Undergraduate Professors (Nationally / Internationally)
2022	Leir Endowed Chair Professorship, Henry J. Leir Chair in Business, Technology & Society
2022	Excellence in Research Award , MTSM, NJIT
2022	Excellence in Teaching Award, MTSM, NJIT
2021	Master Teacher Designation (the highest teaching recognition at NJIT)
2021	Fellow of Institute for Teaching Excellence (ITE) at NJIT
2020	Blockchain Practitioner Instructor (IBM Certified)
2019	IBM Faculty Research Award , Thomas J. Watson IBM Center, NY
2019	Robert W. Van Houten Award , Alumni Association of NJIT
2019	Honorable Nomination for Master Teacher, NJIT
2018	NJIT Excellence in Research Medal Award 2018, Nominee
2017	Excellence in Teaching Award, NJIT (University Wide)
2017	Nominee for Outstanding Research Award, NJIT (University Wide)
2017	Excellence in Teaching Award (Teaching Lower Division), Tuchman School of Management
2017	Outstanding Research Award, Tuchman School of Management, NJIT
2016	Nominee for Excellence in Teaching Award, NJIT (University Wide)
2016	Excellence in Teaching Award (Teaching Lower Division), Tuchman School of Management
2010-2014	<i>Teaching Excellence Awards</i> , each semester, for teaching MBA, MGMT8150, Dept. of MGS
2009-2010	INFORMS Student Research Contest, NJ-Chapter, Finalist;
2009-2010	Graduate Student Excellence Award, Rutgers University, NJ
2009-2010	CSCMP Scholar award, CSCMP NJ-Round table, NJ.