JIM (JUNMIN) SHI

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RESEARCH INTEREST

- Supply Chain Management, Production-Inventory Systems
- Container Shipping Logistics
- Agricultural Supply Chain, Inventory Management
- Interface between Marketing, Finance and Operations Management
- Procurement under Supply Disruption, Supply Chain Risk

EDUCATION

Ph.D., MBA	Dept. of Supply Chain Management & Marketing Science, 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

ACADEMIC POSITIONS

- Tuchman School of Management, New Jersey Institute of Technology, Newark, NJ
  Assistant Professor 9/2014-Present
- 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 Scholar 5/2012-6/2012
- Rutgers Business School, Rutgers University, Newark, NJ
  Instructor 6/2008-8/2010
- Editorial Board, the International Journal of Business Analytics (IJBAN), 2012-Present

RECENT PUBLICATIONS

[J1]. **J. Shi**, "Optimal Production/Inventory Systems Subject to Stock-Out Risk", *Annals of Operations Research*, forthcoming, 2017.

[J2]. M.N. Katehakis, B. Melamed and **J. Shi** (corresponding author), "Cash-Flow Based Dynamic Inventory Management", *Production and Operations Management Society* (POMS), forthcoming, 2016.

[J3]. T. Xiao and **J. Shi**, "Supply Priority and Contract in a Dual-Channel Supply Chain", *European Journal of Operational Research* (EJOR), 254: 813-823, 2016.

[J4]. M.N. Katehakis, B. Melamed and **J. Shi** (corresponding author), "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.

[J5]. L. Qi, **J. Shi** and X. Xu "Supplier Competition under the Dual-sourcing Setting", *Omega* (the International Journal of Management Science), **55**, 91-110, 2015.

[J6]. **J. Shi**, M.N. Katehakis, B. Melamed, Y. Xia, "Optimal Continuous Replenishment for a Production-Inventory System with Compound Poisson Demands and Lost-sales", *Operations Research*, **6** (5): 1048 - 1063, 2014.

[J7]. **J. Shi**, X. Yue and Y. Zhao, "Operations Sequencing under Yield Loss", *Naval Research Logistics,* **61**(2), 144-154, 2014.

[J8]. **J. Shi** and Y. Zhao "The Value of Component Commonality under Non-Holdback Allocation Rules", *Operations Research Letters,* **42** (6-7), 409 - 413, 2014.

[J9]. **J. Shi,** 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.

[J10]. **J. Shi** and Y. Zhao, "Some Structural Results on Acyclic Supply Chains", *Naval Research Logistics*, Vol. 57, No. 6, 605-613, 2010.

ARTICLES UNDER REVIEW/REVISION

[J11]. **J. Shi,** Y. Zhao and K. Kiwanuka, "Managing Inventories for Agricultural Products: The Optimal Selling Policies", *Operations Research*, under revision, 2014.

[J12]. L. Gao, M. Gorman, T. Luo and **J. Shi**, "Dynamic Order Promising under Heterogenous Leadtime and Random Supply", POMS, (under the 3rd round review), 2015.

[J13]. **J. Shi**, "Stock-Out Risk of the Production/Inventory Systems with Compound Poisson Demands", *Omega*, under the 2nd round review, 2016.

BOOK CHAPTERS

J. Shi 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.

J. Yang, 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., Chaovalitwongse, W. A., & Shi, L.) CRC Press.

SELECTED WORK IN PROGRESS

J. Shi, "Inventory Optimization for a Product with Random Defects", 2013.

J. Shi, "Repositioning Empty Containers for Agricultural Container Logistics", 2016.

J. Shi, "Optimization for Production-Inventory System of Perishable Products", 2014.

J. Shi and M.N. Katehakis, "Demand-Driven Workforce Management: Hire or Fire", 2015.

J. Shi and J. Yang, "One-Stage Assembly to Order System with Markov Input Prices", 2015

J. Shi, L. Gao,and M El Hafsi, "Design for Production: the Role of Cost and Capacity Volatility," 2016

J. Shi, B. Melamed and M.N. Katehakis, "Cash-Flow Management with Account Receivable", 2016.

RECENTLY INVITED TALKS

"*Managing Inventories for Agricultural Products: The Optimal Selling Policies*", presented at

- *School of Management*, NJIT, NJ, Feb. 2014.
- *Rotman School of Management*, University of Toronto, Toronto, Jan. 2014.

"*Cash-Flow Based Inventory Management*", presented at

- School of Business, Stevens Institute of Technology, Feb. 2017.
- *Management Department*, Business School, the University of Hong Kong, HK. Jan. 2013.
- *Dept. of Operations Management*, Business School, Chinese University of Hong Kong, 2013.
- *Dept. of Operations*, Case Western Reserve University, Cleveland, OH. Dec. 2012.

FEDERAL GRANT & APPLICATION

[1] USDA, Primary Investigator (PI), Repositioning Empty Containers for Agricultural Container Logistics. $63,540, 9/19/2016 – 9/18/2018. (Status: granted).

[2] NSF Faculty Early Career (NSF:1653478), Primary Investigator (PI), Continuous Production and Inventory Management, $697,595, 5/1/2018-4/30/2023 (Status: under preparation).

[3] US-DoT (Co-PI), (FWHA BAA DTFH6116R00036), with M. Cochinwala, G. Wang, Y. Chen, P. Egbelu and C. Santaseiri, "Models & Algorithms using Disparate Data for Transportation", $559,495, 3/1/2017-2/28/2019 (Status: under review).

[4] NSF, Primary Investigator (PI), A Novel Solution Technique for Cost Optimization of Production/Inventory Systems, $408,322.00, 12/1/2017-12/30/2020 (Status: preparation and target to submit July 2017).

[5] USAF, (Co-PI), Pilot Project: Supply Chain Risk Management, 2016, (Collaborating with colleagues at NJIT and NJII; Status: in communication with USAF).

OTHER GRANTS

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;

CONSULTING SERVICE

''Ocean Shipping: Supply Chain Value Destruction", *NYSHE - New York Shipping Exchange, Inc. Corporation, 7/2015-8/2015,* (with Dr. M. Ehrlich)

ACADEMIC ACTIVITIES

PhD Dissertation Committee:

1) B. Hoseini, Dept. of Industrial Engineering, NJIT, 2015.
2) R.K. Kiwanuka, Dept. of Supply Chain Management & Marketing Sciences, Rutgers, Jul. 2013.
3) Ju Myung (J.M.) Song, Dept. of Supply Chain Management, Rutgers Business School, 2016.
4) Sherry R.Dehkordi, IE department, NJIT, 2016
5) Tingting Zhou, Rutgers Business School, Dept. of MSIS, 2016.
6) Jingran Zhang, IE department, NJIT, 2016, Dec. 2016.

POMS Invited Session Chair: POMS 2014, POMS 2017

Conference Session Chair: INFORMS 2009-2016 annually, 2015; DSI 2010-2014 annually.

Judge for Business Plan Competition: *Miller Lite Tap* the Future™ 2013

Government Grant Reviewer:
The German-Israeli Foundation for Scientific Research and Development (GIF) (2012)

Future Academician Colloquium, INFORMS, Nov. 2010, Austin, TX

Referee for Journals:
- Operations Research (2012-Present)
- Manufacturing & Service Operations Management (2013-Present);
- Production and Operations Management (2015-Present)
- Naval Research Logistics (2009-Present);
- Annals of Operations Research (2011-Present), etc.

Scholar membership: INFORMS; DSI; M&SOM, POMS and ISM.

SELECTED HONORS

2016 Nominee for Excellence in Teaching Award, NJIT (University Wide)
2016 Excellence in Teaching Award, Tuchman School of Management, NJIT
Summer 2014 The Best Teaching Effectiveness (5.0) for teaching MGS3100, RCB, GSU
2010-2014 *Teaching Excellence* Awards, for teaching MBA, MGMT8150, Dept. of MGS
Nov. 2010 INFORMS *Future Academician Colloquium*, Austin, TX
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.

TEACHING EXPERIENCE

- **Tuchman School of Management, NJIT:**
  - *Business Statistics*
    Average Teaching Effectiveness **3.7**/4.0[1] (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[2] (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).

[1] Teaching Quality is evaluated by students in the class on a scale from 1 to 4, where 4 is the highest.
[2] Teaching Quality is evaluated by students in the class on a scale from 1 to 5, where 5 is the highest.