

AICHIH JASMINE CHANG

Ph.D., MBA, CPIM

Martin Tuckman School of Management, New Jersey Institute of Technology
University Heights, Newark, NJ 07102
Tel: 973-596-6267
Email: ai.c.chang@njit.edu
Web: <https://web.njit.edu/~jschang/>

Academic Appointment

New Jersey Institute of Technology, Tuchman School of Management (Newark, NJ)

Assistant Professor 8/2019-Present
Instructor: *MGMT 216 Business Data Analytics, FIN600 Corporate Finance, FIN310 Data-Driven Financial Modeling, etc.*

Rutgers Business School, RBS (Newark, NJ)

Instructor, 33:799:310 *Demand Planning and Forecasting* 9/2018-12/2018

Rutgers Business School, RBS (Newark, NJ)

Teaching Assistant, *Intro to SCM, Project Management, Global Procurement, Operations Analysis, Industrial Client Project* 9/2015-5/2019

Education

Dept. of Supply Chain Management, Rutgers Business School, Rutgers

Ph.D. in Management 5/2019

Rutgers Business School, Rutgers University, the State University of New Jersey, 5/2009

Master of Business Administration (MBA)
Concentration: Finance and Supply Chain Management.

Shanghai University of Finance & Economics (Shanghai, China) 1/2006

Master of Arts, Concentration: International Economics

National Chengchi University (Taipei, Taiwan) 6/2003

Bachelor of Arts, Dual Concentrations: Economics and Russian

Professional Certificates

[1] CPIM (*Certified in Production and Inventory Management*)

[2] *Solution Consultant my SAP ERP - Integration of Business Process*

Research Interest

Supply Chain Analytics (Data-Driven Analytics)

FinTech & Text Analytics

Interface between Finance and Supply Chain

Technology for Supply Chain (e.g., Blockchain, SAP/ERP)

Healthcare Operations Management & Information Technology

Journal Publication

- [1] **A. Chang**, M.N. Katehakis, J. Shi and Z. Yan, “Blockchain-Empowered Newsvendor Optimization”, *International Journal of Production Economics*, 2021.

ABDC Ranking: A

- [2] U. Ali, Y. Li, J. Wang, X. Yue, **A. Chang**, “Dynamics of Outward FDI and productivity spillovers in logistics services industry: Evidence from China”, *Transportation Research Part E: Logistics and Transportation Review*, 2021.

ABDC Ranking: A*

- [1] J. Wang, Z. Li, J. Shi, **A. Chang**, “Capacity Reallocation via Sinking High-Quality Resource in a Hierarchical Healthcare System”, *Annals of Operations Research (ANOR)*, 2021.

ABDC Ranking: A

- [2] J. Wang, Z. Li, J. Shi, **A. Chang**, “Hospital referral and capacity strategies in the two-tier healthcare systems”, *Omega, the International Journal of Management Science*, Volume 100, Article 102229, 2021.

ABDC Ranking: A

- [3] C. Fang, H. Lu, Y. Hong, S. Liu, **A. Chang**, “Dynamic Pricing for Electric Vehicle Extreme Fast Charging”, *IEEE Transactions on Intelligent Transportation Systems*, Volume: 22, Issue: 1, Jan. 2021, p. 531-541.

ABDC Ranking: A

- [4] J. Shi, Y. Zhao, K. Kiwanuka, and **A. Chang**, “Optimal Selling Policies for Farmer Cooperatives”, *Production and Operations Management Society (POMS)*, Volume 28, No. 12, pp. 3060-3080, 2019.

ABDC Ranking: A*; Among Business Week's 20 Premier Journals; Among Financial Times (FT) Research's 50 Premier Journals.

- [5] **A. Chang** and H. Lu, “Stock-Out Risk of the Production/Inventory Systems with Compound Poisson Demands”, *Omega, the International Journal of Management Science*, Volume 83, 181-198, 2019.

Lead Author; ABDC Ranking: A*

- [6] X. Chen, C. Fang, **A. Chang**, Y. Yang, Y. Hong, and H. Lu, “Chinese Address Standardization via Hybrid Approach Combining Statistical and Rule-Based Methods”, *Conference Proceeding, 39th International Conference on Information Systems*, 2018.

ISAP Excellent Paper Award, 2018

- [7] **A. Chang** and J. Shi, “Pricing American Options via Transform-Expand-Sample (TES) Forecasting Method”, *Journal of Business and Economics*, Volume 7, No. 11, pp. 1756-1763, 2016.

Lead Author; ABDC Ranking: B

- [8] J. Shi, and **A. Chang**, “Revenue and Duration of Oral Auction”, *Journal of Service Science and Management*, Vol. 2, No. 4, Dec. 2009.

- [9] **A. Chang**, “*Industrial Policy of Taiwan*”, Shanghai University of Finance & Economics, published in Chinese, 2005.

Articles under Review/Revision

- [10] **A. Chang**, M.N. Katehakis and B. Melamed, “Blockchain Technology and Supply Chain Management” Under review of *Management Science*, 2021.

- [11] J. Wang, S. Ateheh, **A. Chang**, and J. Shi, “Multi-objective stochastic sustainable closed-loop supply chain network design: A case of China’s ventilator supply chain for COVID-19 pandemic”

Working in Progress

- [12] P. Ouyang, J. Wang, and **A. Chang**, “Showing more emotion to patients in information disclosure: managing physician’s disclosed information to attract more patients”, 2021.
- [13] P. Ouyang, J. Wang, **A. Chang**, “Physician’s online image and patient’s decision in online health community”, 2021.
- [14] Z. Dai, J. Wang, **A. Chang**, “Elective surgical scheduling with consideration of the shortage of downstream inpatient beds under uncertain environment”, 2021.

Grant and Application

- [1]. NSF, Co-PI, Global SC Empowered by BCT amid COVID19 Pandemic (Status: under review)
- [2]. NSF, Senior Personnel, AccelNet-Implementation: Leveraging the Data Revolution for Global Sustainability in Food, Energy and Water Systems and Human Health (Status: under review)
- [3]. NSF, Co-PI, Continuous Production for Pharma (Status: under review)
- [4]. USDA, PI, Understanding the Impact of the Transportation Network on Food Distribution in Rural and Urban areas (Status: under review)

Conference and Invited Presentations

- [5]. **A. Chang** “Blockchain Design for Supply Chain Management”, POMS 30th Annual Conference, Washington DC, forthcoming, May 2-6, 2019 (invited presentation).
- [6]. **A. Chang** “Blockchain Design for Supply Chain Management”, INFORMS International Conference, Taipei, Taiwan, June 17-21, 2018.
- [7]. **A. Chang**, Invited Speech, *Blockchain design for supply chain management*, Dept. of Logistics and Maritime Studies, Hong Kong Polytechnic University, HK, Aug. 6th, 2018.
- [8]. **A. Chang**, Invited Speech, *Blockchain design for supply chain management*, Dept. of Mathematics, Hong Kong Baptist University, HK, Aug. 3rd, 2018.
- [9]. **A. Chang**, Invited Speech, *Blockchain design for supply chain management*, Nanjing University, Nanjing, China, July 9, 2018.
- [10]. **A. Chang**, *Blockchain design for supply chain management*, The 20th International Conference on Electronic Commerce (ICEC2018), Nankai University, Tianjin, China, July 6-7, 2018.
- [11]. M.N. Katehakis, **A. Chang**, and B. Melamed, Blockchain Technology and its Impacts on Supply Chain Management, POMS 29th Annual Conference 2018, Houston, TX, May 3 - 7, 2018
- [12]. 2008 APICS International Conference, Kansas City, MO, Honored scholar, sponsored by APICS.

Selected Projects

- [1] IBM Watson Research (2019): “*Blockchain Adoption for Logistics of Food Trust*”, nominated for IBM PhD Fellowship
- [2] Dell (2018): “*Inventory analytics for finished goods*”
- [3] Johnson & Johnson (2018): “*Improvement of demand forecasting accuracy*”

[4] (2017) “*Text Mining: How to define financial news?*”

[5] Marquis Who’s Who (2008): “*Marketing strategy design in order to increase listees’ participation*”

[6] Novartis Pharmaceuticals (2007): “*New product launch timing in pharmaceutical industry*”

Teaching Interest

Business Analytics and Data Analytics

Financial Modeling and FinTech Courses (with Excel or R programming)

Supply Chain Analytics (Data-Driven Analytics)

Selected Honor

2020 NJIT *Open and Affordable Textbook* (OAT) Teaching Project Award

2019 Excellence in Teaching award, Rutgers Ph.D. Program (nominated)

2018 **ISAP Excellent Paper Award** for “*Chinese Address Standardization via Hybrid Approach Combining Statistical and Rule-Based Methods*”, Association for Information Systems

2018 Rutgers Business School Dean’s Fund for Summer Ph.D Research

2018 Rutgers TA/GA Professional Development Fund Award

2017 Rutgers Business School Summer Scholarship

2016 Ph.D. Teaching Assistant Scholarship for 4 years, Rutgers Business School

2009 *Beta Gamma Sigma* Honored Lifetime membership

2009 Scholarship Award, the *Council of Supply Chain Management Professionals* (CSCMP) NJ

2008 Scholarship Award, *Council of Supply Chain Management Professionals* (CSCMP) NJ

2008 Alfred J. Battaglia Memorial Fellowship Award for Supply Chain Management

2002 Presidential Award for top-three students in the department, National Chengchi University

Academic Service

Associate Editor: Data Science and Management, 2020

Journal Referee: Omega, IJPE, Transportation Science Part E, EJOR

2021 PhD Student Dissertation Committee: Rutgers RBS Supply Chain Management PhD student, Nasser Al Monawer

2021 PhD Student Subject Qualifying Exam Committee: NJIT MTSM Business Data Science PhD student, Nesreen El-rayes

2021 PhD Student Subject Qualifying Exam Committee: NJIT MTSM Business Data Science PhD student, Roshani Bharati

2021 Project Advisor of NJIT Provost Undergraduate Research and Innovation (URI) Summer Fellowship: “*Blockchain-enabled System Design for Standardized Testing Process*” of NJIT CS undergraduate student, Joseph Schaedler

2019-present NJIT MTSM PhD Program Committee: Familiar with AACSB accreditation system, PhD program and curriculum development, PhD student recruitment system, etc.

Conference Session Chair: 2018 INFORMS International, Taipei, Taiwan, June 17-21, 2018.

Scholar membership: APICS, CSCMP, ISM, INFORMS, *Beta Gamma Sigma* (honored lifetime)

Visiting scholar: Visiting scholar at University of Moscow in the summer, 2002

Industry Working Experience

DP&C Enterprises, LLC (East Brunswick, NJ)

Project Manager for *DPC Smartfleet*TM (ERP-Logistics Management) 6/2009-8/2010

- Developed training materials and providing hybrid training sessions (e.g., in-person and online tutorial) to platform users.
- Business insights (i.e. driver idle time, on time job fulfillment rate, etc.) were developed from clients' data
- Designed *DPC Smartfleet*TM system flow to integrate with client's business operations and saved 10% of fuel and administration cost.

Supply Chain and Marketing Intern

2/2009-6/2009

- Created the manual for DP&C transportation application, *DPC Smartfleet*.
- Conducted marketing research for *DPC Smartfleet*.

BASF Fuel Cell Inc. (Somerset, NJ)

Supply Chain Intern

5/2008-8/2008

- Evaluating inventory process and various ERP software programs, such as SAP and Oracle, and submitted recommendations on how to integrate "BOM", "Barcode" and "MRP" modules with current ERP system, *MAS 90*, to streamline process.

BioProMed Co. (Taipei, Taiwan)

China Region Representative

10/2003-1/2005

- Leading cross-functional team to evaluate suppliers' price, capacity based on company requirements, and performed overall cost-benefit analysis by suppliers.