

JUAN (Joanne) ZHANG

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ACADEMIC EXPERIENCE

Assistant Professor of Management and Marketing 2021.6-present
College of Business, University of Wisconsin – Eau Claire

Ph.D., Business Administration 2021
University of Missouri – St. Louis

M.S., Supply Chain and Analytics 2021
University of Missouri – St. Louis

B.S., Logistics Management 2015
Huazhong University of Science and Technology (Wuhan, China)

RESEARCH INTERESTS

- Mathematical Modeling and Optimization of Logistics and Transportation Systems
- Supply Chain Risk Management
- Behavioral Issues in Operations Management
- Energy, Environment, and Sustainability

RESEARCH PAPERS

- Zhang, J., Campbell, J.F., Sweeney II, D.C., and Hupman, A.C. “Energy Consumption Models for Delivery Drones: A Comparison and Assessment”, Forthcoming in *Transportation Research Part D*.
- Hupman, A. C., and Zhang, J. (2019). Simulating profit loss in behavioral newsvendor problems. In *2019 Winter Simulation Conference (WSC)* (pp. 1859-1870). IEEE.
- Rust, D.L., Smith, L.D., Ryan, D.L., and Zhang, J. (2018). “The Other Side of Revenue Management: Managing Airport Infrastructure and Airside Operations”. *International Journal of Revenue Management*, 10(3-4), 189-215.
- Smith, L. D., Nauss, R. M., Xu, L., Zhang, J., Ehmke, J. F., and Hellmann, L. (2017). “Information Technologies and Analytical Models for Strategic Design of Transportation Infrastructure”. In C. Howard & K Hargiss (Eds.), *Strategic Information Systems and Technologies in Modern Organizations* (pp. 300-321). Hershey: IGI Global.

TECHNICAL REPORTS

- Campbell, J.F., Sweeney II, D.C., Zhang, J., and Pan, D. (2018) “Strategic Design for Delivery with Linked Transportation Assets: Trucks and Drones - Final Report”, Institute for Transportation, Iowa State University, Ames, IA, January 2018, 40 pp.

- Campbell, J.F., Sweeney II, D.C., and Zhang, J., (2017) “Strategic Design for Delivery with Trucks and Drones”, Research Report, April 2017. Available at www.updwg.org/resource-library/all-resources/page/6/, 38 pp.
- Smith, L.D. and Zhang, J., “Maximizing Airside Performance at Nanjing Lukou International Airport: An Application of Discrete Event Simulation in a Staged Queueing Framework for Airside Operations”, (in English and Chinese), May 2017, 73 pp.
- Smith, L.D. and Zhang, J., “Strategic Decision Support for Airport Capacity Planning”, Report to U.S. Department of Transportation for UTC Study Grant DTRT13-G-UTC37, September 2017, 56 pp.

PRESENTATIONS

- Zhang, J. “Drone Delivery – How Good Is It From Science Fiction to Reality?”, *WomenInTech (Chinese)*, 2021, YouTube, <https://youtu.be/jBI2S6a8I1U>.
- Zhang, J. “Economic and Environmental Impacts of Drone Delivery”, *UMSL - Missouri S&T Virtual Brown Bag Seminar*, 2021, Virtual.
- Zhang, J., Campbell, J.F., and Sweeney II, D.C. “Economic and Environmental Impacts of Drone Delivery”, *DSI Annual Meeting*, 2020, Virtual.
- Zhang, J., Campbell, J.F., and Sweeney II, D.C. “A Continuous Approximation Approach for Cost Efficient and Environmentally Sustainable Drone Delivery”, *INFORMS Annual Meeting*, 2020, Virtual.
- Zhang, J., Campbell, J.F., and Sweeney II, D.C. “Economic and Environmental Impacts of Drone Delivery”, *INFORMS Annual Meeting*, 2019, Seattle, WA.
- Campbell, J. F., Sweeney II, D. C., and Zhang, J. “Strategic Design for Delivery with Trucks and Drones”, *Mid-Continent Transportation Research Symposium*, 2017, Ames, IA.
- Zhang, J. “Strategic Design for Delivery with Drones and Trucks”, Graduate Research Fair, University of Missouri – St. Louis, 2017.

RESEARCH EXPERIENCE

Research Assistant | University of Missouri – St. Louis

- Designing Heuristics to Solve the Mixed-Integer Nonlinear Programming (MINLP) for the Multi-Echelon Multi-Commodity Location-Inventory Network Design Problem for Ameren Corporation, 2020–present. (Funded by Ameren Corporation)
- Using Advanced Analytics for Managing Supply Chain Risks for Express Scripts Inc., 2019–2021. (Funded by Express Scripts Inc.)
- Simulating Economic Consequences of Behavioral Newsvendor Problems, 2018-2019. (Funded by University of Missouri – St. Louis)
- Strategic Design for Delivery with Trucks and Drones, 2016-2017. (Funded by U.S. Department of Transportation and Midwest Transportation Center).
- Integrating Analytical Tools for Strategic Planning at Airports, 2016-2017. (Funded by Nanjing Lukou International Airport)

TEACHING INTERESTS

Logistics and Supply Chain Management, Operations Management, Business Analytics, Mathematical Modeling, Simulation

TEACHING EXPERIENCE

Instructor | SCMA 3301: Introduction to Supply Chain Management (Summer, 2019)

- Required for all BSBA students
- Held two 150 minute sessions each week
- Teaching Evaluation: 6.43/7.00 (Department Average: 6.03/7.00)

Supplemental Instruction (SI) Leader | SCMA 3300: Business Analytics and Statistics (Fall, 2018)

- Required for all BSBA students
- Held one 90 minute session each week to supplement the instructor's presentations
- 16% increase in average course GPA of students who attended the SI sessions

Teaching Assistant | SCMA 3300, 3301, 3320 (Fall 2015 - Summer 2019)

- SCMA 3320: Advanced Supply Chain and Operations Management
- SCMA 3301: Introduction to Supply Chain Management
- SCMA 3300: Business Analytics and Statistics

SERVICE ACTIVITIES

Reviewer: *Transportation Research Part B*, *Transportation Research Part C*, *Transportation Science*

CSCMP EDGE Annual Conference, 2019, Registration Assistant

China Marketing International Conference, 2014, Assist attendees and session chairs

CONFERENCES ATTENDED

INFORMS Business Analytics Conference, 2020, Virtual.

DSI Annual Meeting 2019, New Orleans, LA, November 2019.

INFORMS Annual Meeting 2019, Seattle, WA, October 2019.

CSCMP Annual Conference 2019, Anaheim, CA, September 2019.

INFORMS TS&L PhD Workshop: *Advances in Operations Research Applied to Transportation and Logistics*, Loyola University, Chicago, May 2019. Sponsored by National Science Foundation (NSF).

INFORMS Annual Meeting 2017, Houston, TX, November 2017.

Mid-Continent Transportation Research Symposium 2017, Ames, IA, August 2017.

CSCMP Annual Conference 2016, Orlando, FL, September 2016.

AGIFORS Airline Ops SG Meeting 2016, Seattle, WA, May 2016.

HONORS AND AWARDS

- Selected to attend the 2020 Donald J. Bowersox Doctoral Symposium, September 2020 (limited to 20 excellent doctoral students world-wide).
- Logistics Scholarship, University of Missouri – St. Louis, 2019.
- Scholarship to attend the PhD Workshop: *Advances in Operations Research Applied to Transportation and Logistics*, Loyola University, Chicago, May 2019.
- Graduate Recruitment Fellowship, University of Missouri – St. Louis, 2015-2019.
- 3rd Place, Graduate Research Fair, University of Missouri – St. Louis, 2017.

SKILLS

Computer: Python, C#, CPLEX, GUROBI, Arena, MATLAB, SAS, SPSS, MS Office Suite

Languages: Mandarin (Native), English (Fluent)