

# ZAHRA AZADI

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## ACADEMIC POSITION

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**University of Miami Herbert Business School (UMHBS), Coral Gables, FL**  
Assistant Professor of Professional Practice, 2018 - present

## EDUCATION

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**Clemson University, Clemson, SC**  
Ph.D. in Industrial Engineering, 2018  
*Dissertation Title:* Stochastic Optimization Models for Inventory Replenishment of Perishable Products  
**K. N. Toosi University of Technology, Tehran, Iran**  
M.S. in Industrial Engineering 2013  
B.S. in Industrial Engineering 2011

## TEACHING/MENTORING EXPERIENCE

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### Teaching

- MGT 303 - *Operations Management* at University of Miami  
**Average Evaluation: 4.48/5** (7 sections) Fall 2018 - present
- MGT 445 - *Supply Chain Modeling and Analysis* at University of Miami  
**Student rating: 4.5/5** (3 sections) Fall 2018 - present
- MGT 446 - *Supply Chain Strategy* at University of Miami  
**Student rating: 4.45/5** (2 sections) Spring 2019 - present
- MGT 643 - *Principles of Operations Management* at University of Miami  
**Student rating: 4.2/5** (offered to Masters in International Business) Fall 2020
- IE 3610 - *Industrial Applications of Probability and Statistics (II)* at Clemson University  
*online course, Student rating: 4.6/5* Summer 2017

### Mentoring

2015

- Supervised and mentored undergraduate students during Fall 2015.

I supervised the students during a creative inquiry course work. I taught them how to do research and study the literature, as well as the programming language Ampl and implementation of optimization models. I helped them to analyze pharmaceutical sales data collected from a pharmacy at Greenville, SC. This work was later contributed to a conference presentation.

## RESEARCH

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### PUBLICATIONS

- **Z. Azadi**, H. Gangammanavar and S. D. Eksioglu, Developing childhood vaccine administration and inventory replenishment policies that minimize open vial wastage, *Annals of Operations Research*, (2019): 1-33.
- **Z. Azadi**, S. D. Eksioglu and G. Palak., Stochastic optimization models for joint pricing and inventory replenishment of perishable products, *Computers Industrial Engineering*, 127 (2019): 625-642.
- S. D. Eksioglu, J. Geunes, G. Palak, **Z. Azadi**, Analyzing the Impact of Carbon Regulatory Mechanisms on Supply Chain Management (No. 2012-078S). *Southeastern Transportation Research, Innovation, Development and Education Center (STRIDE)*, (2014).
- A. Nezhad, E. Roghanian, and **Z. Azadi**, A Fuzzy Goal Programming Approach to Solve Multi-objective Supply Chain Network Design Problems, *International Journal of Industrial Engineering Computations*, 3(4), 315-324, 2013.

### PAPER(S) UNDER REVIEW

- **Z. Azadi**, S. D. Eksioglu, N. Geismar, Optimization of Distribution Network Configuration for Pediatric Vaccines: A Case study in Niger, under review *Naval Research Logistics*.
- *Book Chapter: Customer Interfaces: Predicting, Planning, and Influencing Demand*, Maynards Industrial Engineering Handbook, McGraw-Hill. (with S. D. Eksioglu), Submitted.

### WORK IN PROGRESS

- Fair allocation of COVID-19 vaccine, Work in initial phase.

### REFEREED CONFERENCE PROCEEDINGS

- **Z. Azadi**, D. Neyens and S. D. Eksioglu, *Forecasting Childhood Routine Immunization Vaccine Demand: A Case Study in Niger*, in Proceedings of the 2018 Industrial and Systems Engineering Research Conference, Orlando, FL.
- **Z. Azadi**, H. Gangammanavar and S. D. Eksioglu, *Stochastic Optimization for Vaccine Vial Replenishment*, in Proceedings of the 2016 Industrial and Systems Engineering Research Conference, Anaheim, CA.
- S. D. Eksioglu, **Z. Azadi**, and J. P. Geunes, *Optimizing Costs and Emissions Due to Inventory Replenishment of Perishable Products*, in Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Montreal, CA.
- A. Nezhad, **Z. Azadi**, *A Fuzzy Goal Programming approach to solve Multi-Objective supply chain network design problems*, Second Soft Computing world conference, Baku, Azerbaijan, 2012.
- M. Mehrnegar, A. Nezhad, **Z. Azadi**, *A modified neighborhood search heuristic for scheduling parallel machines with Sequence Dependent Setup Times*, Second Soft Computing world conference, Baku, Azerbaijan, 2012.

## CONFERENCE PRESENTATIONS

- **Z. Azadi**, S. D. Eksioglu, N. Geismar, Optimization of Distribution Network Configuration for Pediatric Vaccines: A Case study in Niger, INFORMS Annual Meeting, Anaheim, CA, 2021.
- **Z. Azadi**, S. D. Eksioglu, Stochastic Optimization Models for Childhood Vaccine Distribution Network: A Case Study in Niger, INFORMS Annual Meeting, Seattle, WA, 2019.
- **Z. Azadi**, S. D. Eksioglu, Stochastic Optimization Models for Childhood Vaccine Distribution Network: A Case Study in Niger, POMS Annual Meeting, Washington, DC, 2019.
- **Z. Azadi**, S. D. Eksioglu, Stochastic Optimization Models for Childhood Vaccine Distribution Network: A Case Study in Niger, INFORMS Annual Meeting, Phoenix, AZ, 2018.
- **Z. Azadi**, D. Neyens, S. D. Eksioglu, *Forecasting Childhood Routine Immunization Vaccine Demand: A Case Study in Niger*, IIE Annual Conference, Orlando, FL, 2018.
- **Z. Azadi**, S. D. Eksioglu, B. Eksioglu, and G. Palak, *Stochastic Optimization Models For Joint Pricing and Inventory Management of Perishable Products*, INFORMS Annual Meeting, Houston, TX, 2017.
- **Z. Azadi**, S. D. Eksioglu, B. Eksioglu, and G. Palak, *Two-stage Stochastic Programming For Joint Pricing and Inventory Management of Perishable Products*, IIE Annual Conference, Pittsburgh, PA, 2017.
- **Z. Azadi**, S. D. Eksioglu, B. Eksioglu, and G. Palak, *Two-stage Stochastic Programming For Joint Pricing and Inventory Management of Perishable Products*, IE Graduate Research Symposium, Clemson, SC, 2017.
- **Z. Azadi**, H. Gangammanavar, and S. D. Eksioglu, *Two-stage Stochastic Programming For Vaccine Vial Replenishment*, INFORMS Annual Meeting, Nashville, TN, 2016.
- **Z. Azadi**, H. Gangammanavar, and S. D. Eksioglu, *Stochastic Optimization for Vaccine Vial Replenishment*, IIE Annual Conference, Anaheim, 2016.
- A. Khaund, **Z. Azadi**, S. D. Eksioglu, and B. Eksioglu, *A Production Scheduling Model for Compounded Sterile Products*, IIE Annual Conference, Anaheim, 2016.
- **Z. Azadi**, S. D. Eksioglu, and J. P. Geunes, Optimizing Costs and Emissions Due to Inventory Replenishment of Perishable Products, IIE Annual Conference, Montreal, 2014.

## POSTER PRESENTATIONS

- **Z. Azadi**, H. Gangammanavar, and S. D. Eksioglu, *Two-stage Stochastic Programming For Vaccine Vial Replenishment*, Graduate Research and Discovery Symposium, Clemson, SC, 2017.
- **Z. Azadi**, H. Gangammanavar, and S. D. Eksioglu, *Two-stage Stochastic Programming For Vaccine Vial Replenishment*, Minority Issue Forum student poster competition at INFORMS Annual Meeting, Nashville, TN, 2016.
- **Z. Azadi**, H. Gangammanavar and S. D. Eksioglu, *A Stochastic Optimization Model for Vaccine Vial Replenishment*, in Greenville Health Systems, Medical Education/Research Day, Greenville, SC, 2016.
- **Z. Azadi**, S. D. Eksioglu, and J. P. Geunes *Optimization Models to Minimize Costs and Emissions of Perishable Products Inventory Replenishment*, in University Transportation Center Conference for the Southeastern Region, Atlanta, GA, 2014.

## HONORS/AWARDS

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- 2021 Faculty Learning Community Fellow Award (\$6,000), University of Miami
- 2017 Janine Anthony Bowen Graduate Fellow Award for Outstanding Academic Performance, Industrial Engineering Department, Clemson University
- Honorable mention, INFORMS Minority Issue Forum 2016 Student Poster Competition, Nashville, TN
- Participant, INFORMS 2016 Doctoral Student Colloquium, Nashville, TN
- Participant, INFORMS 2017 Teaching Effectiveness Colloquium, Houston, TX
- NSF Student Travel Grant Award, IIE Annual Conference 2014, Montreal
- Ranked 5th among 40 M.Sc students of Industrial Engineering, K. N. Toosi University of Technology, Iran

## SERVICES

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### PROFESSIONAL ACTIVITIES

- **Conferences/Symposium:**
  - Cluster chair: *Minority Issues Forum*, INFORMS Annual Meeting, Anaheim, CA, 2021
  - Session chair: *Strategies for Successfully Passing Tenure Track*, INFORMS Annual Meeting, Anaheim, CA, 2021
  - Session chair: *Academic Job Market*, INFORMS Annual Meeting, Anaheim, CA, 2021
  - Cluster chair: *Minority Issues Forum*, INFORMS Annual Meeting, Virtual, 2020
  - Session chair: *Diversity Statement and Beyond*, INFORMS Annual Meeting, Virtual, 2020
  - Session chair: *Academic Job Market*, INFORMS Annual Meeting, Virtual, 2020
  - Session chair: *Vaccine Supply Chains*, INFORMS Annual Meeting, Seattle, WA, 2019
  - Session chair: *Emerging Topics in Healthcare Operations*, Production and Operations Management (POMS) Annual conference, Washington DC, 2019
  - Session chair: *Forecasting and Predictive Modeling in Supply Chains*, ISERC conference, Orlando, FL, 2019
  - Session chair: *Supply Chain Management*, INFORMS Annual Meeting, Houston, TX, 2017
  - Symposium organizer: IE Graduate Research Symposium, Clemson, SC, 2017
- **Journal/Proceedings Referee:** Naval Research Logistics, OMEGA, Decision Sciences, Annals of Operations Research, Operations Research Perspectives, Computers and Industrial Engineering, Transportation Research Part E: Logistics and Transportation, Optimization Letters, Proceedings of IISE annual conference
- **Member:** INFORMS (since 2013); POMS (since 2018); DSI (since 2018); IIE (2013-2018)
- Currently serving as the Vice president of Events for Minority Issue Forums at INFORMS.

## UNIVERSITY ACTIVITIES

- Collaborated with Operations Faculties to develop a new undergraduate program in Supply Chain Analytics at UMHBS.
- Collaborated with Operations Faculties to develop two new elective courses for the curriculum at UMHBS.
- Served as a panelist in peer-to-peer hybrid/online course best practices workshop.
- Created a Thought Leadership Video related to how to accelerate new COVID-19 vaccine distribution when it will be available?
- Currently serving as the course coordinator for MGT 303, Operations Management.
- Participated in department seminars, had individual meeting with invited speakers.
- Served as Vice-President of INFORMS student chapter at Clemson University from 2016 to 2018
- Served as Vice-President of events INFORMS student chapter at Mississippi State University from 2013 to 2014

## CONSULTING EXPERIENCE

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- **Greenville Health System Pharmacy**, Greenville, SC 2015  
Analyzed pharmaceutical sales data. Developed an optimization model for the pharmacy production schedule which minimized their operation costs.
- **Indamin Shock Absorber Inc.**, Iran Summer 2011  
Assessed the production process of shock absorber. Developed a deterministic optimization model for process design to minimize their production cost.