

Saeideh Mirghorbani

Charles E. Scheidt Faculty Fellow in Atrocity Prevention

Binghamton University
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Academic Positions	<i>Assistant Professor, Business Analytics and Operations</i> Binghamton University (SUNY), Binghamton, NY	Fall 2018-Present
Education	<i>Ph.D., Operations Management</i> The University of Alabama, Tuscaloosa, AL Dissertation Title: Medical Decision Making in Patients with Chronic Diseases Advisors: Dr. Sharif Melouk and Dr. John Mittenthal	2014-2018
	<i>M.S., Production Management</i> Allameh Tabatabaee University, Tehran, Iran	2009-2011
	<i>B.S., in Industrial Management</i> Allameh Tabatabaee University, Tehran, Iran	2005-2009
Research Interests	Applied operations research in healthcare systems, Markov decision processes, optimization, simulation, data mining, machine learning	
Publications	<ul style="list-style-type: none">• Mirghorbani, S., S. Melouk, and J. Mittenthal. 2021. The Effect of Adherence on Antihypertensive Therapy Plans in Patients with Type 2 Diabetes. <i>IIEE Transactions on Healthcare System Engineering</i>, https://doi.org/10.1080/24725579.2021.1879321– This paper is selected to be featured in the ISE Magazine in 2021.• Mirghorbani, S., S. Melouk, and J. Mittenthal. 2020. Impact of Patient Adherence on Treatment Cost. Target: <i>Omega</i>.• Mirghorbani, S., S. Melouk, and J. Mittenthal. 2021. Using Partially Observable Markov Decision Processes to Improve Alzheimer’s Disease Screening. To be submitted to <i>Manufacturing & Service Operations Management</i>.	
Conferences & Presentations	<p>Mirghorbani, S., S. Melouk, and J. Mittenthal. Using Partially Observable Markov Decision Processes to Improve Alzheimer’s Disease Screening.</p> <ul style="list-style-type: none">• Center for Collective Dynamics of Complex Systems at Binghamton University, 2019, Binghamton, NY.• INFORMS Annual Meeting 2019, Seattle, WA.• POMS Annual Meeting 2019, Washington D.C. <p>Mirghorbani, S., S. Melouk, J. Mittenthal. The Effect of Adherence on the Anti-Hypertensive Therapy Plans in Patients with Diabetes.</p> <ul style="list-style-type: none">• POMS Annual Meeting 2018, Houston, TX.• DSI Annual Meeting 2017, Washington, D.C.• INFORMS Annual Meeting 2017, Houston, TX.	

Mirghorbani, S., S. Melouk, J. Mittenthal. Anti-hypertensive Therapy Plan for Patients with Diabetes.

- INFORMS Healthcare 2017 Conference. Rotterdam, Netherlands.

Mirghorbani, S., S. Melouk, J. Mittenthal. Optimal Statin Therapy Plan For Diabetic Patients.

- INFORMS Annual Meeting 2016, Nashville, TN.

Honors & Awards

- Charles E. Scheidt Faculty Fellow in Atrocity Prevention, 2020 - present.
- SUNY Binghamton Teaching Honor Roll, 2019 & 2020.
- International Travel Grant, June 2017, \$2300, The University of Alabama, Tuscaloosa, AL
- Summer Excellence in Research (SEiR) Grant, 2016, \$5000, Culverhouse College of Commerce & Business Administration, The University of Alabama, Tuscaloosa, AL
- Student Fellowship, Master's Degree Program, Production Management, 2009, Allameh Tabatabaee University, Tehran, Iran
- Student Fellowship, Bachelor's Degree Program, Industrial Management, 2005, Allameh Tabatabaee University, Tehran, Iran

Workshops

- NSF CAREER Workshop, Spring 2021, Binghamton University, Binghamton, NY.
- Proposal Writing Workshop, Fall 2020, Binghamton University, Binghamton, NY.
- Data-driven Approaches to the Humanities, Spring 2019, Binghamton University, Binghamton, NY.
- INFORMS Annual Meeting New Faculty Colloquium, Fall 2018, Phoenix, AZ.
- Conducted Python Workshop, Spring 2018, The University of Alabama, Tuscaloosa, AL
- Organized R Workshop, Fall 2017, The University of Alabama, Tuscaloosa, AL
- Conducted "L^AT_EX" Workshop, Fall 2016, The University of Alabama, Tuscaloosa, AL
- INFORMS Annual Meeting Doctoral Students Colloquium. Fall 2016. Nashville, TN.

Teaching Experience

Instructor

Binghamton University (SUNY), Binghamton, NY

Fall 2018 - Present

- SCM 560 - Decision Modeling & Risk Analysis
- MGMT 507 - Operations Management
- SCM 360 - Spreadsheet Modeling & Decision Making
- SCM 375 - Applied Models Operations Management

The University of Alabama, Tuscaloosa, AL

Fall 2016 & Summer 2017

- OM 300 - Introduction to Operations Management

Service & Leadership

Mentor

- Women in OR/MS (WORMS) mentorship program Fall 2019 - Present

Committee Member

- Undergraduate Curriculum Committee Fall 2018 - Present

Session Chair

- INFORMS Annual Meeting 2017

INFORMS Student Chapter, The University of Alabama

- President Summer 2017 - Spring 2018
- Won INFORMS Cum Laude award in 2018
- Secretary Fall 2016

Iranian Student Association, The University of Alabama

- Secretary Fall 2016 - Fall 2017

Ad-hoc Referee

- International Journal of Environmental Research and Public Health
- International Journal of Production Economics
- Journal of the Operational Research Society

Industry Experience

System Group, Tehran, Iran

System Analyst of Service Management Project Jun 2011 - May 2014

- This position involved analyzing documents required for the implementation of the Infrastructure Technology Information Library (ITIL) standard. As part of this project, several tools were evaluated and ultimately Service Manager Console was selected as the main tool.

Coordinator of Service Management Project

Dec 2011 - Jan 2012

- As part of a customer satisfaction project, we used the SERVQUAL model as a measuring tool in order to evaluate the customer service quality. We discovered 10% increase in customer satisfaction proportion to last year.

Professional Society Memberships

Institute for Operations Research and the Management Sciences (INFORMS)

- Health Applications Society
- Optimization Society
- Manufacturing and Service Operations Management Society
- Women in OR/MS Forum

Production and Operations Management Society (POMS)

Decision Sciences Institute (DSI)

Skills

Programming: Python, R

Optimization: CPLEX, LINDO/LINGO

Packages: Numpy, Pandas, Scipy, SPSS, SAS Enterprise Miner

Others: Jupyter Notebook, RStudio, Solver, Microsoft Office, Palisade Risk Analysis and Decision Making Tools, Arena, L^AT_EX

Personal Interest & Activities

- Oil Color & Pastel Painting, Pilates, Swimming