Shima Nassiri

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EMPLOYMENT

University of Michigan, Ross School of Business, Ann Arbor, MI   2017-present
Assistant Professor of Technology and Operations

- Affiliate, Institute for Healthcare Policy and Innovation
- Affiliate, Telehealth Research and Innovation

EDUCATION

University of Washington, Foster School of Business, Seattle, WA   2012- 2017
    Ph.D. in Information Systems & Operations Management,
    Thesis: "Essays on Healthcare Payments and Operations"
    Minor Area: Economics
    Outstanding Research Award,   2016
    Dean's Achievement Award for Excellence in Research,   2015

University of Minnesota, Minneapolis, MN   2010-2012
    M.S. in Industrial and Systems Engineering

University of Tehran, Tehran, Iran   2005-2010
    B.S. in Industrial and Systems Engineering

SELECTED PUBLICATIONS & RESEARCH

Published and Accepted Papers

[1] "Reference Pricing for Healthcare Services," (2021) with E. Adida, and H. Mamani, ***Manufacturing & Service Operations Management***, forthcoming.

[2] "Comparison of Telemedicine versus in-Person Visits on Impact of Downstream Utilization of Care," (2021) with X. Liu, M. Li, and C. Ellimoottil. ***Telemedicine and e-Health***.

[3] "Bundled Payment vs. Fee-for-Service: Impact of Payment Scheme on Performance," (2016) with E. Adida, and H. Mamani. ***Management Science***, 63(5), pp.1606-1624.

[4] "Closed-Form Solutions for Robust Inventory Management," (2016) with H. Mamani, and M. Wagner. ***Management Science***, 63(5), pp.1625-1643.

Working Papers

[5] "How Does Telemedicine Shape Physician's Practice in Mental Health?," with M. Li, X. Liu, and C. Ellimoottil. *Under Review.*
    - *Winner of Ross-China Research Award Grant 2020.*
    - *To be presented at MSOM Healthcare SIG 2021.*

[6] "Value of Capacity Flexibility in Healthcare," with M. Shunko and H. Mamani.

[7] "Regulations for Substitutable Medical Devices," with F. Zhou, and R. Anupindi.

Working in Progress

[8] "Impact of Telemedicine Adoption on Patient Outcomes," with M. Li, and X. Liu.

[9] "Operational Analysis of Admission Review Systems," with Mengdi Tan.

Other Publications (Pre-PhD Research Projects)

[10] "An integrated genetic algorithm-conventional regression-analysis of variance for improvement of gasoline demand estimation," with A. Azadeh, M. Mirjalili, and M. Sheikhalishahi. *International Journal of Industrial and Systems Engineering*, 11(3), 205-224, 2012.

[11] "Improved one day-ahead price forecasting using combined time series and artificial neural network models for the electricity market," with A. Azadeh, S. F. Ghaderi, and B. P. Nokhandan. *International Journal of Industrial and Systems Engineering*, 9(3), 249-267, 2011.

[12] "Modeling and optimization of a purchasing system in uncertain environments by an integrated fuzzy business process simulation and data envelopment analysis: a novel approach," with A. Azadeh, and M. Asadzadeh. *Proceedings of the 2010 Spring Simulation Multiconference. Society for Computer Simulation International*, 2010.

TEACHING EXPERIENCE

Instructor, University of Michigan, Ross School of Business

TO301: Business Analytics and Statistics	Fall 2017, 2018 & 2020

Core class. 5 sections of 80 students.
Course coordinator in Fall 2020. **Average Evaluation Score: 90%**

TO899: Healthcare Policy and Operations	Winter 2018

PhD class. **Evaluation Score: 100%**

Advisor for MBA Multidisciplinary Action Projects	Winter-B 2018 & 2021
Advisor for Tauber project	Summer 2021

Teaching Assistant, University of Washington, Foster School of Business

Executive MBA Operations Management	Winter 2013 & 2014
MBA Supply Chain Management	Spring 2015 & Winter 2016
Undergraduate Business Statistics	Spring 2013 & 2014; Fall 2013 & 2014
Undergraduate Operations Management	Fall 2015; Spring 2016

INDUSTRY EXPERIENCE

Microsoft, Redmond, WA   Summer 2015
Data Scientist Intern at Microsoft Azure Networking (Received full-time offer after the internship)
- Built a robust and scalable mathematical program to estimate the traffic matrices.
- Implemented and verified the traffic matrix performance.
- Conducted traffic migration between different Microsoft networks.
- Proposed algorithms for computing an efficient topology.

Savvysherpa, Minneapolis, MN   Summer 2011
Healthcare Consultant Intern
- Determined the optimal location for health clinics using a Maximal Covering Location Model.
- Retrieved required data from SQL, and analyzed the dataset in R.
- Performed profit analysis based on demand estimation to optimize the number of clinics.

RESEARCH CONSULTING EXPERIENCE

University of Michigan Health System, Ann Arbor, MI   2021
Studied the impact of adoption of telemedicine on the frequency of follow-up visits.

Premera Blue Cross, Mountlake Terrace, WA   2018
Determined the volume and types of claims to review considering heterogeneous cost of review for different diagnosis groups and providers.

Mayo Clinic, Rochester, MN   2017
Studied the effect of layout design on physician efficiency.

Harborview Medical Center, Seattle, WA   2015
Built a scheduling model and tool for elective and emergency patients.

INVITED PRESENTATIONS	**How Does Telemedicine Shape Physician's Practice in Mental Health?**	
	MSOM Healthcare SIG,	2021

Reference Pricing for Healthcare Services

INFORMS Annual Meeting,	2017-2020
University of Michigan, Industrial and Operations Engineering	2019
University of Michigan, Ross School of Business	2019
INFORMS Healthcare	2019
POMS	2017-2019
MSOM	2018

Can Change of Facility Layout impact efficiency of Care?

INFORMS Healthcare, Cambridge, MA	2019

Bundled Payment vs. Fee-for-Service: Impact of Payment Scheme on Performance

POMS	2016 & 2017
Boston College, Carroll School of Management	2017
University of North Carolina at Chapel Hill, Kenan-Flagler Business School	2017
University of Texas at Dallas, Naveen Jindal School of Management	2017
University of Michigan Ann Arbor, Ross School of Business	2017
University of California San Diego, Rady School of Management	2017
University of Virginia, Darden School of Business	2016
Texas A&M University, Mays Business School	2016
INFORMS Annual Meeting, Nashville, TN	2016
INFORMS International Meeting, Island of Hawaii	2016

Closed-Form Solutions for Robust Inventory Management

MSOM Annual Conference, Seattle, WA	2014
INFORMS Annual Meeting, Minneapolis, MN	2013

PROFESSIONAL SERVICES

Journal Reviewer: Management Science (MS), Manufacturing and Service Operations Management (M&SOM), Production and Operations Management Society (POMS), IISE Transactions, Healthcare Management Science.

Conference reviewer: M&SOM Healthcare SIG Conference 2020 2021

Competition reviewer: Pierskalla Healthcare Research Award 2020, MSOM Best Student Paper Award 2021

Session chair: INFORMS Annual Meeting 2021 (forthcoming), 2018, 2017, 2016

Invited speaking engagements: Telehealth session panelist for MBA Healthcare Boot Camp at Ross 2019

School committees (at Ross 2018-2019): Faculty recruiting committee 2019, Ph.D. recruiting committee 2018 & 2019, Co-organizing seminars 2021-2022.

Judge: Center for value chain innovation datathon 2018

DOCTORAL STUDENTS	Manqi (Maggie) Li, (Placed: Assistant Professor at Renmin Business School)	Fall 2018 - present
	Fan Zhou	Fall 2019 - present

COMPUTER SKILLS	R, MATLAB, SQL, Python