

BEHROOZ POURGHANNAD

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ACADEMIC POSITIONS

University of Minnesota & Mayo Clinic 2019-Present
Postdoctoral Fellow, Institute for Mathematics and its Applications
Postdoctoral Fellow, Robert D. and Patricia E. Kern Center for the Science of Health Care Delivery

EDUCATION

University of Minnesota, Minneapolis, MN 2019
Ph.D. in Industrial & System Engineering
Committee: Guangwen Kong (advisor), Saif Benjaafar (co-advisor),
Karen Donohue (chair), Tony Cui, Laurens Debo

University of Michigan, Ann Arbor, MI 2015
M.A. in Business Administration

Sabanci University, Istanbul, Turkey 2013
M.A. in Mathematics

Azad University, Qazvin, Iran 2007
B.Sc. in Industrial Engineering

RESEARCH INTERESTS

Applications: Platform Economy, Healthcare, Supply Chain, Business Model Innovation

Methodologies: Game Theory, Dynamic Programming, Stochastic Modeling, Laboratory Experiments,
Machine Learning, Causal Inference

RESEARCH PAPERS

Completed (published or working)

- P1. “Is Simplicity the Ultimate Sophistication? The Superiority of Linear Pricing,” with Tony Haitao Cui and Guangwen Kong. *Production and Operations Management*, Vol. 29, No. 7, July 2020, pp. 1767-1788. [Journal](#), [SSRN](#).
- Finalist of the 2018 Junior Scholar Paper Competition, POMS College of Behavior in Operations Management
- P2. “A Static Model in Single-leg Flight Airline Revenue Management,” with J.B.G. Frenk and Semih O. Sezer. *Transportation Science*, Vol. 51, No. 1, February 2017, pp. 214-232. [Journal](#).
- First place winner of the 2017 INFORMS Aviation Application Section Best Student Presentation Competition

- P3. “Peer-to-Peer Trading of Usage Allowances,” with Saif Benjaafar. Reject and resubmit at *Manufacturing & Service Operations Management*. [SSRN](#).
 – Finalist of the 2018 IBM Service Science Section’s Best Student Paper Award
- P4. “Matching Surgeons with Patients: Heterogeneous Effects of Surgical Volume on Surgery Duration,” with Guihua Wang. Under review at *Manufacturing & Service Operations Management*. [SSRN](#).
- P5. “Impact of External Assistance Programs on Supply Chain Energy Efficiency: A Behavioral Investigation,” with Karen Donohue and Jason Nguyen. In preparation for submission. [SSRN](#).
 – Finalist of the 2020 Junior Scholar Paper Competition, POMS College of Behavior in Operations Management
- P6. “Is Kindness the Magical Spell? The Role of Information and Reciprocity in Revenue-sharing Crowdfunding,” with Laurens G. Debo and Guangwen Kong. In preparation for submission. [SSRN](#).
- P7. “A Two-level GA to Solve an Integrated Multi-item Supplier Selection Model,” with Danial Esmaeili and Abolfazl Kaazemi. *Applied Mathematics and Computation*, Vol. 219, No. 14, March 2013, pp. 7600-7615. [Journal](#).

Work in Progress

- W1. “Choice Architecting for Emergency Department Visit Reduction,” with Guihua Wang. Manuscript in preparation.
- W2. “Creating Value for Patients via Remote Patient Monitoring,” with Che Ngufor and Nilay Shah. Manuscript in preparation.
- W3. “Adaption of a New Electric Medical Records System: Impacts on Clinical Operations and Outcomes,” with Miao Bai and Kalyan S. Pasupathy. Data collection in progress.

Invited Book Chapters

- B1. “Generalizing the Ordering Cost and Holding-backlog Cost Rate Functions in EOQ-type Inventory Models,” with J.B.G. Frenk and Murat Kaya. In Tsan-Ming Choi (Ed.), *EOQ Inventory Problems: Stochastic and Deterministic Models and Applications*, Springer, 2013, ISBN: 978-1-4614-7638-2. [Chapter](#), [Book](#).
- B2. “A New Approach for an Inventory Model of a Remanufacturing System with Stochastic Decomposition Process,” with Martin Bagherpour and Narges Shahraki. In Stefan Voß, Julia Pahl and Silvia Schwarze (Eds.), *Logistics Management: Systems, Methods, Integration*, Springer, 2009, ISBN: 978-3-7908-2361-5. [Chapter](#), [Book](#).

HONORS AND AWARDS

Finalist, POMS College of Behavior in OM Junior Scholar Paper Competition	2020
Finalist, IBM Service Science Section’s Best Student Paper Award	2018
Finalist, POMS College of Behavior in OM Junior Scholar Paper Competition	2018
First Place Winner, INFORMS Aviation Applications Best Student Paper Competition	2017

First Place Winner, Best Paper Award, IEOM 2012 Conference	2012
Doctoral Dissertation Fellowship, University of Minnesota	2019
Merit Based Fellowship, University of Minnesota	2015
Stephen M. Ross School of Business Fellowship, University of Michigan	2013-2015
Full Graduate Scholarship Award, Sabanci University, Istanbul, Turkey	2011-2013
Ranked 5 th (among 250), IE department, Islamic Azad University, Qazvin, Iran	2007

TEACHING EXPERIENCE

Instructor , The Carlson School of Management, University of Minnesota SCO 3001 Operations and Supply Chain Management (BBA core)	Fall 2020
Instructor , Industrial & System Engineering, University of Minnesota IE 5551 Production Planning and Manufacturing (M.Sc. elective)	Spring 2019
Guest Lecturer , The Carlson School of Management, University of Minnesota SCO 8755 Behavioral Research in Operations Management (Ph.D. core)	Spring 2019
Guest Lecturer , Industrial & System Engineering, University of Minnesota IE 8551 Advanced Production Planning and Manufacturing (Ph.D. core)	Spring 2019
Teaching Assistant , Industrial & System Engineering, University of Minnesota Statistics, Quality, and Reliability (Undergraduate core) Stochastic Models (Undergraduate core)	2015-2017
Teaching Assistant , Sabanci University Deterministic Operations Research (Undergraduate core)	2011-2013

INDUSTRY EXPERIENCE

Mayo Clinic, Rochester, MN <i>Graduate Student Summer Intern</i> , e-Consult services and its impacts on patients' welfare and health outcome, under supervision of Dr. Kalyan Pasupathy and Dr. Mustafa Sir	Summer 2018
HourCar (a non-for-profit car sharing company), Minneapolis, MN <i>Graduate Student Consultant</i> , data analytic and business model innovation for car sharing	2017-2018
Tekpan Industrial Enclosures & Cabinets, Istanbul, Turkey <i>Supply Chain Consultant</i>	2009-2011
Alborz Micro System Company, Qazvin, Iran <i>Project Manager</i>	2007-2009

PROFESSIONAL SERVICE

Ad-hoc Reviewer: Manufacturing & Service Operations Management, Production and Operations Management, Decision Sciences, IISE Transactions, Journal of Systems Science and Systems Engineering, INFORMS Best Working Paper Award in BOM
Session Chair: INFORMS, POMS

SKILLS

Programming Languages: Python, MATLAB, Mathematica, SQL
Technical: Gurobi, R, IBM SPSS, Arena

REFERENCES

Saif Benjaafar (co-advisor)
Distinguished McKnight University Professor
Industrial and System Engineering
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Tony Haitao Cui
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Karen L. Donohue
Board of Overseers Professor
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