MAHDI SHAKERI

Haskayne School of Business
University of Calgary
SH 468, 2500 University Drive NW
Calgary, AB T2N1N4, Canada

mahdi.shakeri@ucalgary.ca

EDUCATION

PhD in Operations Management 2019 - Present
Haskayne School of Business, University of Calgary, Calgary, Alberta, Canada
- GPA: 4.00/4.00
- Supervisor: Dr. Marco Bijvank

MSc in Industrial Engineering—Systems Optimization 2016 - 2019
Sharif University of Technology, Tehran, Iran
- GPA: 4.00/4.00
- Supervisor: Dr. Babak Haji

BSc in Industrial Engineering 2011-2016
Sharif University of Technology, Tehran, Iran
- GPA: 3.44/4.00

RESEARCH INTERESTS

- Methodologies:
  - Operations Research, Dynamic Programming, Stochastic Modeling, Optimization, Simulation
  - Machine Learning, Data Analytics, Statistical Learning
- Applications:
  - Healthcare Operations Management
  - Business Analytics
  - Quantitative Finance

SCHOLARSHIPS & AWARDS

Fin-ML NSERC-CREATE PhD Program Scholarship ($10,000) 2023

Robert A Willson Doctoral Management Scholarship ($10,000), University of Calgary 2022

Paramount Resources Ltd. Graduate Scholarship ($6,800), University of Calgary 2021

PUBLICATIONS

M. Shakeri and M. Bijvank. 2023. *"Guiding Physicians with Time-dependent Patient Selection Policies"*.
- In final preparation for submission to *Operations Research*.
- Runner-up, CORS Health Care Operational Research SIG graduate competition, CORS Annual Conference, May 2023, Montreal, QC.

M. Shakeri, B. Haji, and L. Farrokhvar. 2023. *"A Partially Flexible Routing Strategy for Assigning Emergency Department Patients to Inpatient Wards"*. Computers & Industrial Engineering, 108810.

TEACHING EXPERIENCE

Sessional Instructor, Haskayne School of Business, University of Calgary
Business Analytics — Winter 2022, Fall 2022

Teaching Assistant, Haskayne School of Business, University of Calgary
Computer Simulation for Business — Winter 2020

Teaching Assistant, Department of Industrial Engineering, Sharif University of Technology
Operations Research — Winter 2018, Winter 2019
Advanced Manufacturing Processes — Winter 2015

CONFERENCES

CanQueue Conference. Niagara-on-the-Lake, ON, Canada. *"Guiding Physicians with Time-dependent Patient Selection Policies".* August 2023

INFORMS Healthcare Conference. Toronto, ON, Canada. *"Guiding Physicians with Time-dependent Patient Selection Policies".* July 2023

INFORMS Healthcare Conference. Toronto, ON, Canada. *"Improving Emergency Department to Hospital Wards Patient Flow: A Partially Flexible Strategy".* July 2023

INFORMS MSOM Conference. Montreal, QC, Canada. *"Guiding Physicians with Time-dependent Patient Selection Policies".* June 2023

CORS Annual Conference. Montreal, QC, Canada. *"Guiding Physicians with Time-dependent Patient Selection Policies".* May 2023

CORS Annual Conference. Montreal, QC, Canada. *"Partial Flexibility in the Interface of Emergency Department and Hospital Wards".* May 2023

CORS/INFORMS International Conference. Vancouver, BC, Canada. *"Patient Selection by Emergency Physicians During Their Shift".* June 2022

INFORMS Healthcare Conference. Virtual. *"Patient Selection by Emergency Physicians During Their Shift".* July 2021

CORS Annual Conference. Virtual. *"Patient Selection by Emergency Physicians During Their Shift".* June 2021

INFORMS Annual Meeting. Virtual. *"Patient Selection by Emergency Physicians During Their Shift".* October 2020

SERVICE

Ad Hoc Reviewer. Computers & Industrial Engineering. 2023

Session Chair. *"Healthcare Operations Management"* Session. INFORMS Healthcare Conference, Virtual, July 2021

COURSE PROJECTS

"Developing a Data Tool to Forecast Calgary Rental Market for Calgary Housing Company". 2021

"Forecasting Cryptocurrency Market using Machine Learning". 2021

"Cassava Leaf Disease Classification using Convolutional Neural Networks". 2021

"Image Processing and Object Detection using Satellite Imagery". 2019

CERTIFICATES

Blended Instructional Skills Workshop (ISW), Haskayne School of Business Summer 2021

COMPUTER SKILLS

- **Programming:** Python, Java, MATLAB
- **Machine Learning:** Scikit-learn**,** NumPy, Pandas, PyTorch, Keras, TensorFlow, XGBoost, LightGBM
- **Data Visualization:** Power BI, Tableau
- **Statistical:** R, SAS, Stata
- **Documentation:** Jupyter Notebook, LaTeX, MS Word
- **Optimization:** AMPL, CPLEX, GAMS, Lingo
- **Simulation:** Arena, @Risk
- **Microsoft Office:** Word, Excel, PowerPoint, Visio

LANGUAGES

English, Persian

REFERENCES

Available upon request.