MEHRNAZ BEHROOZ

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Highlights of skills

- 5 years of research experience as a graduate student with the main research interest on applications of operations management, focusing on retirement, logistics, and healthcare.
- Analyzed large datasets, including longitudinal datasets, API interfaces, and relational databases
- Advanced technical skills using R, SQL, Tableau, and Excel.
- Demonstrated strong teamwork skills by collaborating with supervisors and colleagues for completion of projects.
- Trained 21 students at Alberta School of Business as a primary instructor of Data Visualization and more than 500 students as a teaching assistant for different optimization and statistical courses.

Education

University of Alberta – *Doctor of philosophy*   **Alberta-Canada**
Alberta School of Business (Major: Business Analytics)   *Sep 2020 - Present*
Thesis: Data-driven applications in operations management
Advisors: Ilbin Lee and Ivor Cribben

Amirkabir University of Technology – *Master of Science*   **Tehran-Iran**
Industrial Engineering (Major: Health Systems Engineering)   *Sep 2017 – Feb 2020*
Thesis: Find an optimal screening policy for Hepatitis C

Amirkabir University of Technology – *Bachelor of Science*   **Tehran-Iran**
Industrial Engineering   *Sep 2013 – Aug 2017*
Thesis: Design a Fuzzy System for Diagnosing the HCV Intensity Rate

Selected awards, fellowships, & grants

- Eric Geddes/Alberta Innovates Fellowship in Health Organization Studies   *2022*
- Graduate Research Assistantship Funds from Ilbin Lee   *2022-2021*
- Doctoral Recruitment Scholarship from University of Alberta   *2020*
- Ranked 1st in Health Systems Major and 4th among the MSc Students of Industrial Engineering in Amirkabir University of Technology   *2019*
- Iran National Science Foundation Grant for My MSc Thesis   *2018*

Research experiences

Graduate Research Analyst:
Retirement decision-making   *Present*

- Analyzing longitudinal aging datasets and visualizing the aging and retirement patterns
- Investigating the association between health-related factors and voluntary vs. involuntary retirement
- Examining how personal characteristics effect on retirement decision-making
- Developing a Markov decision process model to find the optimal age of retirement and saving plans with the aim of helping pension companies and individuals make informed decisions

Local crowd-shipping with lockers *Present*
- Analyzing TELUS mobility data to visualize commute network in city of Edmonton
- Combining the Census and mobility data to manage study zones using Geographic Information System software
- Developing a robust optimization model to create an optimal crowd-shipping system with the aim of reducing last-mile delivery's costs and emissions

2017-2020

HCV screening policy
- Collaborated with Iran's Hepatitis Center to collect the data
- Examined the HCV's prevalence and incidence among high-risk groups in Iran
- Developed a POMDP model to find the optimal screening policy
- Implemented a cost effectiveness analysis, suggesting that our screening policies saved more than 600 million dollars in screening expenses

Teaching experiences

Primary instructor:
- **Alberta School of Business -** Data Visualization (OM 421) *Spring 2023*
  Rating: 4.7/5

Teaching assistant: *Spring 2022*
- **Alberta School of Business -** Data Visualization (OM 488) *2017 – 2020*
- **Amirkabir University of Technology -** Inventory Control (I)**,** Linear Algebra**,** Operation Research (II)**,** Inventory Control (II)**,** Quality Control**,** Motion & Time Study**,** Engineering Economics

High-school teacher: *2013-2015*
- **Rabbani High-school -** Mathematics

Volunteer experiences

University of Alberta
- Executive team member of Business Research Conference *2022*
- Executive team member of Business Doctoral Association *2021 – 2022*

Amirkabir University of Technology
- R&D Committee member of *Masaf* Journal *2014*
  (Technical Journal of IE in Amirkabir University of Technology)
- Writer and Editor in Rastad Magazine *2014*
  (An Entertainment Journal in Amirkabir University of Technology)

Presentations

Alberta School of Business - Coffee with Trish: We are talking research *Jan 2023*
  An investigation into retirement decision-making

Alberta School of Business - Business research conference: Three Minute Thesis *Nov 2022*
  An investigation into retirement decision-making: The effect of static and time-varying factors

Technical skills

Computer programming: R, Python, MATLAB, GAMS, laTeX, VBA, C++
Software: Tableau, QGIS
Microsoft Office Suite: Excel, Access (SQL), Word, PowerPoint
Languages: Persian (Native), **English** (Fluent), **French** (Niveau A2)