Saied Samiedaluie

Curriculum Vitae

Updated: October 2026

Contact Information

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University of Alberta
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Academic Employment

Associate Professor of Operations Management — Jul 2023–Present
Assistant Professor of Operations Management — Jul 2016–Jun 2023
Department of Accounting and Business Analytics
Alberta School of Business
University of Alberta

- Edmonton Journal Faculty Fellow, 2019–2020
- Hugh E. Pearson Faculty Fellow, 2022–2023

Postdoctoral Fellow — Nov 2014–Jun 2016
Research Assistant — May 2014–Oct 2014
Department of Family Practice
Faculty of Medicine
University of British Columbia

Education

Desautels Faculty of Management, McGill University, Montreal, Canada — 2014

Ph.D. in Operations Management

- Thesis Topic: *Strategic and tactical decision-making for inpatient admission and hospital bed allocation: an application to neurology wards.*

Amirkabir University of Technology, Tehran, Iran — 2006

M.Sc. in Industrial Engineering

- Thesis Topic: *No-wait flow shop scheduling problem with controllable processing times*

Sharif University of Technology, Tehran, Iran — 2004

B.Sc. in Industrial Engineering

Refereed Journal Publications

* Trainee

1. Asgari, A.*, Samiedaluie, S., & Rastpour, A. (2026). Solving queueing systems with impatient customers and stochastic agent unavailability using matrix-analytic methods. *Performance Evaluation, 172*.
2. Samiedaluie, S., Tilson, V., & Ingolfsson, A. (2025). Streamlining emergency department workflow: Reducing length of stay with congestion-triggered standing orders. *Health Care Management Science, 28*, 143–159.

3. Samiedaluie, S., Zhang, D., & Zhang, R. (2024). Approximate linear programming for a queueing admission control problem. *Computers & Operations Research, 169*, 106711.

4. Chuang, Y. T.*, Zargoush, M., Ghazalbash, S., Samiedaluie, S., Kuluski, K., & Guilcher, S. J. T. (2023). From prediction to decision: Optimizing long-term care placements among older delayed discharge patients. *Production and Operations Management, 32*(4), 1041–1058.

5. Zhang, R., Samiedaluie, S., & Zhang, D. (2022). Product-based approximate linear programs for network revenue management. *Operations Research, 70*(5), 2837–2850.
   The NRM problem instances in this paper can be downloaded here.

6. Samiedaluie, S., & Verter, V. (2019). The impact of specialization of hospitals on patient access to care: A queuing analysis with an application to a neurological hospital. *Health Care Management Science, 22*(4), 709–726.

7. Samiedaluie, S., Kucukyazici, B., Verter, V., & Zhang, D. (2017). Managing patient admissions in a neurology ward. *Operations Research, 65*(3), 635–656.

8. Samiedaluie, S., Peterson, S., Brant, R., Kaczorowski, J., & Norman, W. V. (2016). Validating abortion procedure coding in Canadian administrative databases. *BMC Health Services Research, 16*(1), Article 255.

Working Papers

* Trainee

1. Samiedaluie, S., Zhang, D., & Zhang, R. *Probabilistic approximations for network revenue management.*

2. Asgari, A.*, Ingolfsson, A., & Samiedaluie, S. *Formulation, parameter estimation, and validation for a model of a call center with stochastic agent availability.*

3. Asgari, A.*, Rastpour, A., & Samiedaluie, S. *Asymptotic analysis of queueing systems with impatient customers and stochastic agent availability.*

4. Kanani Torshizi, M.*, Doucette, J., Rastpour, A., Salari, N., & Samiedaluie, S. *Data-driven ambulance repositioning with threshold control: Enhancing emergency medical services performance.*

5. Ansari, S., Delasay, M., Fadaki, M., & Samiedaluie, S. *Dynamic batching and routing of perishable inventory.*

6. Naboureh, K.*, Rastpour, A., & Samiedaluie, S. *Dynamic multi-appointment scheduling of elective therapy sessions considering no-show, dropout, diversion and severity escalation.*

7. Sadeghi, S.*, Samiedaluie, S., & Soltani, M. *Operating room scheduling with downstream effects: Balancing post-surgery workload.*

8. Talebi, M.*, Ingolfsson, A., & Samiedaluie, S. *Brownian motion approximation for optimal dynamic standing order policy in emergency departments.*

Process Improvement Projects

1. Optimizing Exam Room Assignments in a Pediatric Surgical Clinic. Stollery Children's Hospital, Edmonton, Alberta. With Ilbin Lee. 2019-2026.

2. Optimizing Staffing Decisions in a Surgical Short Stay Unit. Stollery Children's Hospital, Edmonton, Alberta. With Ilbin Lee. 2020–2022.

Conference Proceedings

1. Norman, WV, S Samiedaluie, R Brant, J Kaczorowski, S Bryan (2016). Contraception method at abortion is directly related to rate of recurrent pregnancy: Results from RCTs linked to provincial health administrative

data. Society of Obstetricians and Gynaecologists of Canada Annual Clinical and Scientific Conference, Oral Presentation. June 14–17, 2016. Vancouver, British Columbia.

2. Norman, WV, S Samiedaluie, R Brant, J Kaczorowski, S Bryan (2016). Reducing recurrent unintended pregnancy: A policy option that saves costs. The Pathways to Health Equity: Levelling the Playing Field Conference, Oral Presentation. May 30–June 1, 2016. Winnipeg, Manitoba.

3. Norman, WV, S Samiedaluie, R Brant, D Shaw, J Kaczorowski (2016). The SMART Program (Safe Methods at the Right Time): Is provision of free contraception more cost-effective than managing unintended pregnancies, among women presenting for an index abortion? CIHR- Sparking Population Health Solutions Summit. April 25–28, 2016. Ottawa, Ontario.

4. Norman, WV, S Samiedaluie, R Brant, J Kaczorowski, S Bryan (2016). Subsequent pregnancy outcomes post-abortion, by contraception method. Contraception 2016 93(5): 470. National Abortion Federation 40th Annual Meeting. Oral Presentation. April 14–16, 2016. Austin, Texas.

5. Samiedaluie, S, WV Norman (2015). Accuracy of surgical abortion data capture in Canadian Government Health Administration Databases. Contraception, 92(4), p.371.

6. Blostein, M, B Kucukyazici, V Verter, S Samiedaluie (2011). Clinical decision making for prevention of stroke from atrial fibrillation., *Medical Decision Making*, January/February 2011, vol. 31. No. 1, E54–E180.

7. Samiedaluie, S, B Karimi (2007). Two-Machine No-Wait Flow Shop Scheduling Problem with Precedence Constraints. Operations Research Proceedings. Springer Berlin Heidelberg, 2007. 191–196.

Knowledge and Technology Translations

1. Norman, WV, S Bryan, S Samiedaluie, J Kaczorowski, R Brant, S Dunn, J Shoveller, G Ogilvie, S Shechter, J Christilaw (2018). British Columbia's Contraception Access Subsidy (BCAS): Contraception Cost-Effectiveness in British Columbia. Report Commissioned by the Provincial Health Officer, Ministry of Health, Government of British Columbia. 22 June 2018.

2. Norman, WV, S Bryan, S Samiedaluie, J Kaczorowski, R Brant, S Dunn, J Shoveller, G Ogilvie, S Shechter, J Christilaw, P Kendall (2017). Sexual health indicators in British Columbia (2015): Contraception use rates and determinants among 19 to 49 year old females. Report Commissioned by the Population and Public Health Division, Ministry of Health, Government of British Columbia. 22 February 2017.

3. Norman, WV, S Bryan, R Brant, S Samiedaluie, J Kaczorowski, D Shaw (2015). The SMART Program: Safe Methods At the Right Time. Reducing recurrent unintended pregnancy through provision of highly effective contraception at the time of abortion. Invited brief prepared at the request of British Columbia Ministry of Health. July 2015.

Research Funds

1. Approximate Dynamic Programming for Network Revenue Management
   Source: The Hugh E. Pearson Fellowship, Alberta School of Business, University of Alberta, 2022–2023.
   Role: Principal Investigator
   Amount: CAD 15,000

2. Approximate Dynamic Programming for Service Systems
   Source: Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grant, 2020–2027.
   Role: Principal Investigator
   Amount: CAD 173,500

3. Approximate Dynamic Programming for a Queueing Admission Control Problem

Source: Endowment Fund for the Future–Support for the Advancement of Scholarship, University of Alberta, 2019–2020.
Role: Principal Investigator
Amount: CAD 5,000

4. The Impact of Manufacturer's Commitment on Supplier's Continuous Improvement
   Source: The Edmonton Journal Fellowship, Alberta School of Business, University of Alberta, 2019–2020.
   Role: Principal Investigator
   Amount: CAD 15,000

5. Managing Alternate Level of Care Patients in Community Hospital Networks
   Source: Endowment Fund for the Future–Support for the Advancement of Scholarship, University of Alberta, 2018–2019.
   Role: Principal Investigator
   Amount: CAD 6,000

6. Development and Pilot Testing of a Contraception Decision Tool for Canadians
   Source: Nelly Auersperg Award in Women's Health Research, BC Women's Health Research Institute, 2015–2016.
   Role: Co-Investigator
   PI: Flora Teng. Other CO-Is: Eleni Stroulia, and Wendy V. Norman
   Amount: CAD 15,000

7. Planning for the CONNECT Study: Integrating Family Planning into Community Services for Women Experiencing Intimate Partner Violence
   Source: Interdisciplinary Innovation Grants, Society of Family Planning, August-December 2015.
   Role: Co-Investigator
   Principal Investigator: Wendy V. Norman. Other CO-Investigators: Dustin Costescu, Sheila Dunn, Angel Foster, Patti Janssen, Janusz Kaczorowski, Tamil Kendall, Robin Mason, Regina Renner, and Ashley Waddington
   Amount: USD 25,000

Invited Seminars

Patient Admission and Bed Allocation Policies in Acute Care Wards: An Application to a Neurology Ward
Leeds School of Business, University of Colorado Boulder
Boulder, United States — Mar 2018

Patient Admission and Bed Allocation Policies in Acute Care Wards: An Application to a Neurology Ward
Department of Industrial Engineering, School of Engineering, Ferdowsi University of Mashhad
Mashhad, Iran — Aug 2017

Patient Admission and Bed Allocation Policies in Acute Care Wards: An Application to a Neurology Ward
Department of Health Policy and Management, School of Public Health, Texas A&M University
College Station, United States — Feb 2016

Development of a simulation model to study women's sexual health behaviours and family planning related outcomes
UBC Department of Family Practice Research Rounds
Vancouver, Canada — Jun 2015

The development and validation of a simulation model to address policy questions relating to contraception access
Centre for Clinical Epidemiology and Evaluation (C2E2) Research Rounds
Vancouver, Canada Mar 2015

Patient Admission and Bed Allocation Policies in Acute Care Wards
Catholica-Lisbon School of Business and Economics Research Seminars
Lisbon, Portugal Jan 2015

Conference Presentations

Probabilistic Approximations for Network Revenue Management:

- CORS/INFORMS International Conference, Vancouver, Canada Jun 2022

Models of the Impact of Triage Nurse Standing Orders on Emergency Department Length of Stay:

- CORS/INFORMS International Conference, Vancouver, Canada Jun 2022
- CORS Annual Conference, Online Jun 2021
- INFORMS Annual Meeting, Online Nov 2020

Approximate Linear Programming for a Queueing Admission Control Problem:

- CORS Annual Conference, Online event Jun 2021
- INFORMS Annual Meeting, Seattle, United States Oct 2019
- 30th European Conference on Operational Research, Dublin, Ireland Jun 2019
- INFORMS Revenue Management & Pricing Conference, Palo Alto, United States Jun 2019
- CORS Annual Conference, Saskatoon, Canada May 2019
- INFORMS Annual Meeting, Phoenix, United States Nov 2018
- INFORMS Revenue Management & Pricing Conference, Toronto, Canada Jun 2018

Predicting Health and Economic Outcomes of Providing Subsidy for Contraception in British Columbia Using a Simulation Model:

- INFORMS Annual Meeting, Phoenix, United States Nov 2018
- CORS Annual Conference, Halifax, Canada Jun 2018
- INFORMS Healthcare, Rotterdam, Netherlands Jul 2017

Accuracy of Surgical Abortion Data Capture in Canadian Government Health Administration Databases:

- 2015 North American Forum on Family Planning, Chicago, United States Nov 2015

Specialization of Healthcare Services and Its Impact on Operational Efficiency:

- INFORMS Annual Meeting, Nashville, United States Nov 2016
- INFORMS Annual Meeting, Philadelphia, United States Nov 2015

Admission Policies in a Neurological Hospital Ward:

- INFORMS Annual Meeting, Minneapolis, United States Oct 2013
- INFORMS Healthcare, Chicago, United States Jun 2013
- POMS Annual Meeting, Denver, United States May 2013
- INFORMS Annual Meeting, Phoenix, United States Oct 2012
- INFORMS Annual Meeting, Charlotte, United States Nov 2011
- INFORMS Healthcare, Montreal, Canada Jun 2011

Teaching Experience

Instructor:

MMA 615 – Healthcare Analytics
Master of Management Analytics Elective Course
Alberta School of Business, University of Alberta
Spring 2026.

OM 252 (formerly OM 352) – Operations Management
Bachelor of Commerce Core Course
Alberta School of Business, University of Alberta
Winter 2017, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024, Winter 2026.

OM 411 – Business Process Management
Bachelor of Commerce Operations Management Major Course
Alberta School of Business, University of Alberta
Winter 2017, Winter 2018, Winter 2019, Winter 2021, Winter 2022, Winter 2024.

MGCR 472 – Operations Management
Bachelor of Commerce Core Course
Desautels Faculty of Management, McGill University
Winter 2012.

Teaching Funds

University of Alberta Blended Learning Award 2019
OM 352 – Operations Management
With Armann Ingolafsson (Lead Instructor) and Sam Ito
Amount: CAD 15,000

Awards

National Bank Financial Group Ph.D. Fellowship ($5,500), Desautels Faculty of Management, McGill University, 2012–2013.

Marcel Desautels Ph.D. Fellowship ($12,750), Desautels Faculty of Management, McGill University, 2011–2012.

Bourse d'excellence du CIRRELT ($4,000), Montreal, Canada, 2009–2010.

CREATE HOIM Program Ph.D. Fellowship ($21,000/year), 2010–2014.

Doctoral Program Entrance Fellowship ($20,000), Desautels Faculty of Management, McGill University, 2008–2009.

Academic Services and Memberships

Associate Editor:

- Omega, 2026–present

Ad-hoc Journal Reviewer:

- Production and Operations Management
- Manufacturing & Service Operations Management
- INFORMS Journal on Computing
- Health Care Management Science
- Information Systems and Operational Research (INFOR)
- IIE Transactions
- Socio-Economic Planning Sciences
- Operations Research for Healthcare

Research Grants Reviewer:

- Reviewer of NSERC Discovery Grant Program, 2024.
- Multidisciplinary Review Panel Member for the New Frontiers in Research Fund (NFRF) 2022 Special Call–Research for Postpandemic Recovery

Scholarly Community Service:

- Canadian Operational Research Society (CORS) Councillor 2023–2025
- Secretary/Treasurer: Health Care Operational Research Special Interest Group (SIG) of Canadian Operational Research Society (CORS) 2018–2020

Conference Organization:

- Conference chair/co-chair:
  - 2025 CORS Annual Conference (co-chair)
  - 2024 CanQueue Workshop (co-chair)
- Local organizing committee member:
  - 2020 Annual MSOM Conference (canceled due to Covid-19)
- Program committee member:
  - 2020 Annual MSOM Conference (canceled due to Covid-19)
- Session chair:
  - CORS Annual Conference: 2019, 2021, 2022, 2026
  - INFORMS Healthcare Conference: 2013, 2017
  - INFORMS Annual Meeting: 2012