

Hamed Shourabizadeh

PhD, University of Toronto

200 Bloor St E, Toronto, ON M4W 1E5

E-mail: hshurabi@mie.utoronto.ca

Web: hshurabi.github.io

Education

- 2024 **Ph.D. in Industrial Engineering (Applied Machine Learning)**, University of Toronto.
- 2016 **M.Sc. in Industrial Engineering (Operations Research)**, Sharif University of Technology.
- 2013 **B.Sc. in Industrial Engineering**, Iran University of Science and Technology.

Research Interests

Healthcare management, Supply chain management, Operations research

Machine learning, Explainable AI, Predictive analytics, Business analytics, Survival analysis

Publications

- 7.* [Shourabizadeh H.](#), Agarwal A., Forrest M.G., O'Brien S., *The economics of lapse: How machine learning can optimize policyholder retention in life insurance*, Working paper, to be submitted in 2025
- 6.* [Shourabizadeh H.](#), Aleman D. M., Rousseau L. M., Bhat M., *Rethinking survival model evaluation: The limits of C-Index and the case for the area under the survival curve*- Working paper, to be submitted in 2025.
- 5. [Shourabizadeh H.](#), Aleman D. M., Rousseau L. M., Zheng K., Bhat M., *Classification-augmented survival estimation (CASE): A novel method for individualized long-term survival prediction with application to liver transplantation*- **PloS One**, 2025.
<https://doi.org/10.1371/journal.pone.0315928>
- 4. [Shourabizadeh H.](#), Kundakcioglu O. E., Bozkir C. D. C. Bozkir, Tufekci M. B., Henry A. C., *Healthcare inventory management in the presence of supply disruptions and a reliable secondary supplier*, **Annals of Operations Research**, 2023.
<https://doi.org/10.1007/s10479-023-05620-y>
- 3. Qu Y., [Shourabizadeh H.](#), Aleman D. M., Rousseau L. M., Law A. D., Viswabandya A., Michelis F. V., *Differential Impact of CD34+ Cell Dose for Different Age Groups in Allogeneic Hematopoietic Cell Transplantation for Acute Leukemia: A Machine Learning-Based Discovery*- **Experimental Hematology**, 2024.
<https://doi.org/10.1016/j.exphem.2024.104684>
- 2. [Shourabizadeh H.](#), Aleman D. M., Rousseau L. M., Law A. D., Viswabandya A., Michelis F. V. *Machine learning for the prediction of survival post-allogeneic hematopoietic cell transplantation: A single-center experience*. **Acta Haematologica**, 2023.
<https://doi.org/10.1159/000533665>

1. Yigit I. O., Shourabizadeh H., *An approach for predicting employee churn by using data mining*. In **International Artificial Intelligence and Data Processing Symposium (IDAP)**, 2017 Sep; pp. 1-4. IEEE.
<https://doi.org/10.1109/IDAP.2017.8090324>

Conferences & Presentations

- 2023 **CORS/INFORMS International Conference**, Montreal, Canada.
- 2022 **CORS/INFORMS International Conference**, Vancouver, Canada.
- 2020 **46th Annual Meeting of the European Society for Blood and Marrow Transplantation (EBMT)**, Madrid, Spain, (Virtual).
- 2017 **YAEM Industrial Engineering Congress**, Yildiz Technical University, Istanbul, Turkey.
- 2015 **Strategies for Academic Excellence and Research Success in Graduate Studies**, Congress on Recognizing Excellence in Graduate School.

Awards & Grants

- 2018-2023 MIE Doctoral Studies Fellowship, University of Toronto
- 2023 Doctoral Completion Award (DCA) (\$C8,000)
- 2022 SGS Conference Grant (\$C2,500)
- 2022 School of Graduate Studies Grant, University of Toronto (\$C4,000)
- 2019 6T6 Industrial Engineering Fellowship in Healthcare Engineering (\$C6,000)
- 2018 Parya Scholarship Fund - PSF (\$C1,500)
- 2017 Barbara and Frank Milligan Graduate Fellowship (\$C9,000)
- 2015-2017 The Scientific and Technological Research Council of Turkey Scholarship (\$40,000)
- 2013-2015 Master's Program Fellowship, Sharif University of Technology
- 2013 Academic Excellence Award, Iran University of Science and Technology
- 2004 Ranked 1st in the nationwide Computer Coding Competitions in Iran

Teaching & Professional Experience

- 2022–present **Senior Data Scientist**, MANULIFE, Toronto, Canada.
- 2018–2022 **Teaching Assistant**, UNIVERSITY OF TORONTO, Toronto, Canada.
- 2015–2017 **Graduate Teaching and Research Assistant**, OZYEGIN UNIVERSITY, Istanbul, Turkey.
- 2013–2015 **Academic Program Coordinator**, INDUSTRIAL ENGINEERING DEPARTMENT (IEDEP) at Pazhuhesh higher education institute, Tehran, Iran.

Academic Services & Volunteering

- 2023 **Session chair**, CORS/INFORMS International Conference.
- 2021 **Volunteer organizer**, MIE Research Symposium, University of Toronto.
- 2020 **Operations and Logistics Lead**, The Operations Research Challenge (TORCH), University of Toronto.

- 2019–2020 **Events Management Director**, *Professional Graduate Students Caucus*, University of Toronto.
- 2018 **Peer Reviewer**, *International Conference on the Development of Biomedical Engineering*.
- 2017 **Peer Reviewer**, *Journal of Global Optimization*, Springer.
- 2016 **Peer Reviewer**, *International Conference on Operations Research and Enterprise Systems (ICORES)*.
- 2014–2015 **Editor in Chief**, *Isiq student magazine*, Sharif University of Technology.
- 2012–2013 **Editor in Chief**, *Gunes student magazine*, Iran University of Science & Technology.