

# Nasrin Yousefi

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| <b>EDUCATION</b>               | <b>University of Toronto</b><br>Ph.D. in Industrial Engineering (Operations Research) 2018–2023   |
|                                | <b>Koç University</b><br>M.Sc. in Industrial Engineering 2013–2015  |
|                                | <b>Sharif University of Technology</b><br>B.Sc. in Industrial Engineering 2009–2013   |
| <b>ACADEMIC<br/>EMPLOYMENT</b> | <b>Smith School of Business, Queen's University</b><br>Assistant Professor of Management Analytics 2022–present   |
| <b>RESEARCH<br/>INTERESTS</b>  | Operations Research, Operations Management, Analytics<br>Inverse Optimization, Healthcare Systems   |
| <b>PUBLICATIONS</b>            | <ol style="list-style-type: none"><li>1. Constrained Optimization for Decision Making in Healthcare using Python: A Tutorial<br/>K.H.B. Leung, <u>N. Yousefi</u>, T. C. Y. Chan, A. Bayoumi<br/><i>Medical Decision Making</i>, 2023<br/><a href="https://doi.org/10.1177/0272989X231188027">https://doi.org/10.1177/0272989X231188027</a></li><li>2. Inverse Optimization on Hierarchical Networks: An Application to Breast Cancer Clinical Pathways<br/>T. C. Y. Chan, K. Forster, S. Habbous, C. Holloway, L. Ieraci, Y. Shalaby, <u>N. Yousefi</u>*<br/><i>Health Care Management Science</i>, 2022<br/><a href="https://doi.org/10.1007/s10729-022-09599-z">https://doi.org/10.1007/s10729-022-09599-z</a></li><li>3. An Inverse Optimization Approach to Measuring Clinical Pathway Concordance<br/>T. C. Y. Chan, M. Eberg, K. Forster, C. Holloway, L. Ieraci, Y. Shalaby, <u>N. Yousefi</u>*<br/><i>Management Science</i>, 2022<br/><a href="https://pubsonline.informs.org/doi/10.1287/mnsc.2021.4100">https://pubsonline.informs.org/doi/10.1287/mnsc.2021.4100</a><ul style="list-style-type: none"><li>- Finalist, Pierskalla Best Paper Award, INFORMS Health Applications Society, 2021</li><li>- First Place, Student Paper Competition, INFORMS Health Applications Society, 2021</li><li>- First Place, Student Paper Competition (Open Category), CORS, 2021</li></ul></li></ol> |

\* Authors are listed alphabetically.

**CONFERENCES** **Uncertainty Quantification in Inverse Optimization**  
CORS/INFORMS International 2022, Vancouver, BC, Canada

**Inverse Optimization on Hierarchical Networks**  
INFORMS Annual Meeting 2021, Virtual  
INFORMS Annual Meeting 2020, Virtual

**Inverse Optimization for Clinical Pathway Concordance**  
INFORMS Healthcare 2021, Virtual  
MSOM 2021, Virtual  
CORS 2021, Virtual  
POMS 2021, Virtual  
INFORMS Annual Meeting 2020, Virtual  
Optimization Days 2019, Montreal, QC, Canada

**Robust Optimization of Optimal Stopping Problems**  
StochMod16, Louvain-la-Neuve, Belgium

**INVITED SEMINARS**  
Industrial and Systems Engineering Department, Wayne State University, 2022  
Smith School of Business, Queen's University, 2022  
Simon Business School, University of Rochester, 2022  
Lazaridis School of Business and Economics, Wilfrid Laurier University, 2022

**AWARDS**  
Finalist, Pierskalla Best Paper Award, INFORMS Health Applications Society, 2021  
First Place, Student Paper Competition, INFORMS Health Applications Society, 2021  
First Place, Student Paper Competition (Open Category), CORS, 2021  
Queen Elizabeth II Canada Scholarship in Science and Technology, 2021–2022 (C\$15,000)  
Faculty of Applied Science and Engineering Graduate Student Award, University of Toronto, 2020 (C\$3,000)  
Graduate Student Engineering Fund, University of Toronto, 2020 (C\$3,000)  
Peri Family Healthcare Fellowship, University of Toronto, 2019 (C\$9,335)  
MIE Doctoral Studies Fellowship, University of Toronto, 2018–2022  
The Scientific and Technological Research Council of Turkey Scholarship, 2014–2017 (~\$36,000)  
Master's Program Fellowship, Koç University, 2013–2015  
Academic Excellence Award, Sharif University of Technology, 2013

**GRANTS**  
Undergraduate Student Research Award (USRA), 2024 (C\$7,120)  
Conference Funding Award (co-applicant), Smith School of Business, 2022 (C\$15,432)  
Research Initiation Grant, Smith School of Business, 2022–2024 (C\$60,000)

**TEACHING EXPERIENCE**  
**Smith School of Business, Queen's University**  
Machin Learning and Artificial Intelligence (MMA, Blended MMA), 2024  
Managerial Statistics (undergraduate), 2023

**University of Toronto**

Introduction to Quality Control (undergraduate), 2021

**EMPLOYMENT**    **Research Assistant**    2015–2017  
Koç University, Istanbul

**ACADEMIC**    **Community**  
**SERVICE**    Ad-hoc journal reviewer: INFORMS Journal on Optimization, Critical Care Medicine  
Session chair: CORS/INFORMS International Conference, 2022

**Queen’s University**  
PhD-MSc Awards Adjudication Committee Member, Smith School of Business, 2022-2023

**University of Toronto**  
Vice President, UTOrg (University of Toronto INFORMS/CORS Chapter), 2021–2022  
Event Coordinator, UTOrg (University of Toronto INFORMS/CORS Chapter), 2020–2021  
CUPE Liaison, International Students’ Caucus, University of Toronto, 2019–2020  
Volunteer, MIE Research Symposium, University of Toronto, 2018