MOHAMMAD NOAEEN

m.noae en @utoron to.ca

Postdoctoral Fellow, Dalla Lana School of Public Health,

Institute of Health Policy, Management and Evaluation, University of Toronto

RESEARCH INTERESTS

- Health Informatics, Public Health, Environmental Health, Health and Environmental Equity.
- Intelligent Transportation Systems, Traffic Flow Modelling, Ethics in AI & Autonomous Machines.
- Social Media Analysis, Large Language Models, Machine Learning, AI.

EDUCATION

University of Toronto, Canada Postdoctoral Research Fellow – in Health Data Science Data Science Institute: https://datasciences.utoronto.ca/ Institute of Health Policy, Management and Evaluation, Dalla Lana School of Public Health Supervisor: Dr. Karim Keshavjee Domain: Health Data Science

University of Toronto, Canada

Research Scientist – in Environmental Health Science CANUE Lab: https://canue.ca/leadership-and-staff/ Dalla Lana School of Public health Supervisor: Dr. Jeffery Brook Domain: Health, Transportation, Geography, and Environment

University of Toronto, CanadaJun 2023 - Present (until May 2025)Research Scientist – in Health InformaticsJun 2023 - Present (until May 2025)Hive Lab: https://www.hivelab-uoft.ca/Institute of Health Policy, Management and Evaluation, Dalla Lana School of Public HealthSupervisor: Zahra ShakeriDomain: AI in Public Health

University of Toronto, Canada

Postdoctoral Research Fellow – in Environmental Health Science CANUE Lab: https://canue.ca/leadership-and-staff/ Dalla Lana School of Public health Supervisor: Dr. Jeffery Brook Domain: Health, Transportation, and Environment

Harvard Business School, USA

Postdoctoral Research Affiliate – in Marketing Ethical Intelligence Lab: https://www.juliandefreitas.com/people Department of Business Administration Supervisor: Dr. Julian De Freitas Domain: Ethics, Transparency, and Public Trust in Autonomous Vehicles Development

Jan 2022 - May 2023

Jun 2024 - Present (until Dec 2024)

Jun 2022 - May 2024

University of Toronto, Canada Postdoctoral Research Fellow – in Transportation Engineering https://civmin.utoronto.ca/home/about-us/directory/professors/baher-abdulhai/ Department of Civil and Mineral Engineering Supervisors: Dr. Baher Abdulhai and Dr. Scott Sanner Domain: AI in Traffic Signal Control

University of Calgary, Canada

Ph.D., Software Engineering Department of Electrical and Software Engineering Supervisors: Dr. Behrouz Far and Dr. Mohsen Ramezani https://grad.ucalgary.ca/future-students/supervisor/behrouz-far https://www.sydney.edu.au/engineering/about/our-people/academic-staff/mohsen-ramezan i.html Domain: AI in Traffic Signal Control

Thesis: Managing urban traffic networks using data analysis, traffic theory, and deep reinforcement learning

Imam Khomeini International University, Iran

M.Sc., Transportation Engineering Department of Civil Engineering Supervisor: Dr. Amir Abbas Rassafi Domain: Traffic Signal Control Thesis: Traffic flow analysis in signalized intersections using shockwave theory

PUBLICATIONS

Under Review

- 1. Prakesh S Shah, Alice Aveline, Nicole Bando, Mohammad Noaeen, Jessica Yang, Thuy Mai Luu, Marc Beltempo, Abhay Lodha, Jeffrey R Brook. "Maternal exposure to environmental greenness, air pollution and temperature and neonatal outcomes of preterms", Pediatric Academic Societies (PAS), 2025.
- 2. Dany Doiron, Eleanor M. Setton, Joey Sver, Mohammad Noaeen, Priva Patel, Jeffrey R. Brook. "HealthyPlan.City: Democratizing Environmental Exposure Data for Healthy, Equitable and Sustainable Communities", International Society of Exposure Science (ISES) Annual Meeting, 2024.
- 3. Mohammad Noaeen, Ibrahim Ghanem, AmirHosein Rostami, Jeffrey R. Brook, and Zahra Shakeri Hossein Abad. "NeDiaML-Neighborhood-level Diabetes Prevalence Prediction: A Machine Learning Pipeline with Evidence from Causal Forests.", Journal of NPJ digital medicine, 2024.
- 4. Omid Jafarinezhad, Qian Zhang, Ryan Rezai, Mohammad Noaeen, and Zahra Shakeri. "Collaborative Dynamics in Patient-Level Data Sharing and AI-Driven Healthcare Research.", Journal of NPJ digital medicine, 2024.
- 5. Konrad Samsel, Aria Panchal, Dareen Christabel, Neil Seeman, Mohammad Noaeen, and Zahra Shakeri. "Shaping a Responsible Online Gambling Era with AI.", Journal of PLOS Digital Health, 2024.

Published/Accepted

Sep 2014 - Jan 2021

Sep 2006 - Sep 2009

- 1. Mohammad Noaeen, Dany Doiron, Joey Syer, Jeffrey Brook. "Advancing Population Health Through Open Environmental Data Platforms", Current Topics in Behavioral Neurosciences, Springer, 2024
- 2. Katherine Lu, Paijani Sheth, Zhi Lin Zhou, Kamyar Kazari, Aziz Guergachi, Karim Keshavjee, Mohammad Noaeen, and Zahra Shakeri Hossein Abad. "Identifying Prediabetes in Canadian Populations Using Machine Learning.", the 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, Florida, USA, 2024. [Accepted]
- 3. Chelsea Tanchip, **Mohammad Noaeen**, Kamyar Kazari, Zahra Shakeri Hossein Abad. "Using Machine Learning to Predict Donor Selection for Organ Transplantation.", the 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, Florida, USA, 2024. [Accepted]
- 4. Kayla Esser, Monica Duong, Khalil Kain, Son Tran, Aryan Sadeghi, Aziz Guergachi, Karim Keshavjee, Mohammad Noaeen, and Zahra Shakeri Hossein Abad. "Predicting Diabetes Prevalence in Canadian Adults Using Machine Learning.", the 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, Florida, USA, 2024. [Accepted]
- 5. Priyonto Saha, Yacine Marouf, Hunter Pozzebon, **Mohammad Noaeen**, Aziz Guergachi, Karim Keshavjee, and Zahra Shakeri Hossein Abad. "Predicting the Time to Diabetes Onset Based on Metabolic Biomarker Levels and Comorbidities.", the 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, Florida, USA, 2024. [Accepted]
- 6. Konrad Samsel, Amrit Tiwana, Sarra Ali, Aryan Sadeghi, Aziz Guergachi, Karim Keshavjee, Mohammad Noaeen, and Zahra Shakeri Hossein Abad. "Predicting Depression Among Canadians At-Risk or Living with Diabetes Using Machine Learning.", the 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, Florida, USA, 2024. [Accepted]
- 7. Dany Doiron, Eleanor M Setton, Joey Syer, Andre Redivo, Allan McKee, Mohammad Noaeen, Priya Patel, Gillian L Booth, Michael Brauer, Daniel Fuller, Yan Kestens, Laura C Rosella, Dave Stieb, Paul Villeneuve, Jeffrey R Brook. "HealthyPlan.City: A Web Tool to Support Urban Environmental Equity and Public Health in Canadian Communities.", Journal of Urban Health, 2024 [IF = 6.6].
- 8. Mohammad Noaeen, Somayeh Amini, Shveta Bhasker, Zohreh Ghezelsefli, Aisha Ahmed, Omid Jafarinezhad, and Zahra Shakeri Hossein Abad. "Unlocking the Power of EHRs: Harnessing Unstructured Data for Machine Learning-based Outcome Predictions.", the 45th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Sydney, Australia, 2023.
- Li, Xiaocan, Ray Coden Mercurius, Ayal Taitler, Xiaoyu Wang, Mohammad Noaeen, Scott Sanner, and Baher Abdulhai. "Perimeter Control Using Deep Reinforcement Learning: A Model-free Approach towards Homogeneous Flow Rate Optimization.", the IEEE Intelligent Transportation Systems Conference (ITSC), Bilbao, Spain, 2023.
- Mohammad Noaeen, Atharva Naik, Liana Goodman, Jared Crebo, Taimoor Abrar, Zahra Shakeri Hossein Abad, Behrouz H. Far, and Ana L. C. Bazzan. "Reinforcement Learning in Urban Network Traffic Signal Control: A Systematic Literature Review.", Journal of Expert Systems With Applications, 2022 [IF = 8.5].
- 11. Mohammad Noaeen, Reza Mohajerpoor, Behrouz H. Far, and Mohsen Ramezani. "Real-time Decentralized Traffic Signal Control for Congested Urban Networks Considering Queue Spillbacks.", Journal of Transportation Research Part C: Emerging Technologies 133, 103407, 2021

[IF = 8.3].

- 12. Mohammad Noaeen, Behrouz H. Far, and Mohsen Ramezani. "Bi-modal Perimeter Control: A Hybrid Control Approach Integrating Proportional Integral Controller and Deep Reinforcement Learning.", Journal of IEEE Transactions on Intelligent Transportation Systems, 2021 [Preprint, IF = 6.492].
- 13. Zahra Shakeri Hossein Abad, Adrienne Kline, Madeena Sultana, **Mohammad Noaeen**, Elvira Nurmambetova, Filipe Lucini, Majed Al-Jefri, and Joon Lee. "Digital Public Health Surveillance: A Systematic Scoping Review.", NPJ digital medicine 4, no. 1, 2021: 1-13. [IF = 15.2].
- 14. Mohammad Noaeen, and Behrouz H. Far. "The Efficacy of Using Social Media Data for Designing Traffic Management Systems." The IEEE 28th International Requirements Engineering Conference Workshops (REW), 2020.
- 15. Mohammad Noaeen, and Behrouz H. Far. "Social Media Analysis for Traffic Management." Proceedings of the 14th International Conference on Global Software Engineering. IEEE Press, 2019.
- 16. Mohammad Noaeen, Zahra Shakeri Hossein Abad, Guenther Ruhe, and Behrouz H. Far (2018). "Transportation Engineering on Social Question and Answer Websites: An Empirical Case Study". In Highlighting the Importance of Big Data Management and Analysis for Various Applications (pp. 117-139). Springer, Cham.
- 17. Zahra Shakeri Hossein Abad, Mohammad Noaeen, Didar Zowghi, Behrouz H. Far, and Ken Barker. "Two Sides of the Same Coin: Software Developers' Perceptions of Task Switching and Task Interruption." Proceedings of the 22nd International Conference on Evaluation and Assessment in Software Engineering 2018. ACM, 2018.
- 18. Mohammad Noaeen, Zahra Shakeri Hossein Abad, and Behrouz H. Far (2017). "Let's Hear It From RETTA: A Requirements Elicitation Tool For TrAffic Management Systems". The 35th IEEE International Conference on Requirements Engineering (RE). IEEE, Lisbon, Portugal, 2017.
- 19. Mohammad Noaeen, Amir Abbas Rassafi, and Behrouz H. Far. "Traffic Signal Timing Optimization by Modelling the Lost Time Effect in the Shock Wave Delay Model". ASCE International Conference on Transportation & Development (ICTD2016), Houston, Texas, US. American Society of Civil Engineers (ASCE), 2016.
- 20. Zahra Shakeri Hossein Abad, **Mohammad Noaeen**, and Guenther Ruhe. "Requirements Engineering Visualization: A Systematic Literature Review". In Requirements Engineering Conference (RE), 2016 IEEE 24th International (pp.6-15).
- 21. Mohammad Noaeen, Amir Abbas Rassafi, and Behrouz H. Far (2016). "Exploring the Residual Queue Length Equation in the Shock Wave Model". 51st Annual CTRF Conference, Canadian Transportation Research Forum, Toronto, Ontario, Canada, 2016.

Magazines and Technical Reports

- Matthew Palm, Siobhan Teel, Ignacio Tiznado-Aitken, Anastasia Soukhov, Antonio Paez, Steven Farber, and Michael Hain. "Developing Data Driven Equity Standards: Stakeholder Perspectives.", Technical Report, Participation in the Mobilizing Justice Report, May, 2023. Available online at:(https://mobilizingjustice.ca/wp-content/uploads/2023/06/Developing_Data _Driven_Standards_FINAL_2023_06_06.pdf).
- 2. Mohammad Noaeen, Joe McFarland. "Can Artificial Intelligence and Social Media Help Relieve Traffic Gridlock?", Invited interviw, UToday, Schulich School of Engineering, University of Calgary, July 16, 2021. Available online at: (https://schulich.ucalgary.ca/news/artificial-i ntelligence-social-media-data-help-ease-traffic-headaches)

3. Mohammad Noaeen, Behrouz H. Far, Mohsen Ramezani. "Real-Time Signal Control for Urban Networks", In Canadian Civil Engineer Magazine, Intelligent Transportation Systems (pp. 28-29). Available online at: (https://csce.ca/wp-content/uploads/2018/06/Civil_Winter2017_LA Z_.low_.pdf)

PRESENTATIONS AND TALKS

Guest Lecturer

1. Mohammad Noaeen. "HealthyPlan.City: A Web Tool to Support Urban Environmental Equity and Public Health in Canadian Communities.", Guest Lecturer in Jeffrey Brook's Course, January 30, 2024.

Presentations

- 1. Mohammad Noaeen, and Jeffrey R. Brook. "Reducing Traffic Congestion with Machine Learning: Exploring an Environmental Justice Approach.", Emerging Mobility Scholars Conference (EMSC 2023), June 22, 2023.
- 2. Mohammad Noaeen, Somayeh Amini, Shveta Bhasker, Zohreh Ghezelsefli, Aisha Ahmed, Omid Jafarinezhad, and Zahra Shakeri Hossein Abad. "Unlocking the Power of EHRs: Harnessing Unstructured Data for Machine Learning-based Outcome Predictions.", the 45th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Sydney, Australia, 2023.
- 3. Mohammad Noaeen, and Behrouz H. Far. "The Efficacy of Using Social Media Data for Designing Traffic Management Systems." The IEEE 28th International Requirements Engineering Conference Workshops (REW), 2020.
- 4. Mohammad Noaeen, and Behrouz H. Far. "Social media analysis for traffic management." Proceedings of the 14th International Conference on Global Software Engineering. IEEE Press, 2019.
- Mohammad Noaeen, Zahra Shakeri Hossein Abad, Guenther Ruhe, and Behrouz H. Far (2018). "Transportation Engineering on Social Question and Answer Websites: An Empirical Case Study". In Highlighting the Importance of Big Data Management and Analysis for Various Applications (pp. 117-139).
- 6. Mohammad Noaeen, Zahra Shakeri Hossein Abad, and Behrouz H. Far (2017). "Let's Hear It From RETTA: A Requirements Elicitation Tool For TrAffic Management Systems". The 35th IEEE International Conference on Requirements Engineering (RE). IEEE, Lisbon, Portugal, 2017.
- Mohammad Noaeen, Amir Abbas Rassafi, and Behrouz H. Far. "Traffic Signal Timing Optimization by Modelling the Lost Time Effect in the Shock Wave Delay Model". ASCE International Conference on Transportation & Development (ICTD2016), Houston, Texas, US. American Society of Civil Engineers (ASCE), 2016.
- 8. Mohammad Noaeen, Amir Abbas Rassafi, and Behrouz H. Far (2016). "Exploring the Residual Queue Length Equation in the Shock Wave Model". 51st Annual CTRF Conference, Canadian Transportation Research Forum, Toronto, Ontario, Canada, 2016.

Training Workshop

 Mohammad Noaeen, Mobility Network Summer School 2023 'Measure what matters: Urban mobility in an era of climate emergency', University of Toronto, Toronto, Canada, June 20-21, 2023. [A two-day training workshop to develop a roadmap for evaluating government investment in transportation infrastructure.]

TEACHING EXPERIENCE & CERTIFICATES

Laboratory Instructor - ENGG 225 Fundamentals of Electrical Circuits and Machines Schulich School of Engineering, University of Calgary	Winter 2020
Sessional Instructor - ENGG 233 Computing For Engineers Schulich School of Engineering, University of Calgary - Road and Building Construction Machines	Fall 2019 Summer 2012
Department of Civil Engineering, University of Ahrar	Summer 2012
Mentorship - MHI-2002 Emergent Topics in Health Informatics Institute of Health Policy, Management, and Evaluation, University of Toron	Fall 2024
 Teaching Assistant Department of Electrical and Computer Engineering, University of Calgary ENGG-233 Computing for Engineers SENG-637 Dependability and Reliability of Software Systems ENEL-645 Data Mining and Knowledge Discovery ENSF-619.25 Machine Learning for Engineering Students ENSF-619.30 Software Requirements Analysis and Process Management ENSF-480 Principles of Software Design ENGG-225 Fundamentals of Electrical Circuits and Machines ENGG-502 Senior Capstone Design Project ENGG-501 Senior Capstone Design Project ENGG-209 Engineering Economics 	Fall 2014-2020 Fall 2014, 2016, 2020 Summer 2019, 2020 Spring 2019 Winter 2019 Fall 2017, 2018 Fall 2017, Winter 2018 Fall 2017, Winter 2018 Fall 2017, Fall 2014, 2015
 Learning Assistant Devon Academic Resource Centre, Schulich School of Eng., University of Calgary ENGG-202 Engineering Statics ENGG-317 Mechanics of Solids ENGG-233 Computing for Engineers Math-275 Calculus for Engineers and Scientists Math-211 Linear Methods I 	Fall 2015- Winter 2016 Winter 2016 Winter 2016 Fall 2015 Fall 2015 Fall 2015
Graduate Student Teaching Development (GSTD) Certificate Educational Development Unit, University of Calgary	Sep 2015
Instructional Skills Certificate	
Educational Development Unit, University of Calgary	April 2015

RESEARCH FUNDINGS

Grant Proposal Submissions

- 1. Gillian Booth, Jefrey Brook, David Campbell, Kaberi Dasgupta, Ghazal Fazli, Calvin Ke, Rahim Moineddin, **Mohammad Noaeen**, Laura Rosella. "Community resilience and diabetes incidence following the pandemic: A comparative analysis of Canadian cities", CIHR HCRI Data Analysis Using Existing Databases and Cohorts Grant, Nov 2024.
- 2. Ashwin Sankar, Andrea Gershon, Jeffrey Brook, Greg Evans, Chung-Wai Chow, Jeremy Scott, Jue Wang, Mohammad Noaeen, Nancy Baxter, Duminda Wijeysundera, Therese Stukel. "The

Air quality and Environmental impact on Recovery Outcomes after Surgery (AEROS)", CIHR Catalyst grant, Oct 2024.

- 3. Jeffrey Brook, Dany Doiron, Joey Syer, **Mohammad Noaeen**. "Development of Technical Guidance to Advance Heat-health Vulnerability Maps in Canada", Standards Council of Canada, Nov 2023.
- 4. Jeffrey Brook, **Mohammad Noaeen**, Dany Doiron, Joey Syer. "HealthyToronto.City: Advancing Climate Change Vulnerability Assessment in Toronto via Analytical Hierarchy Process and Machine Learning Techniques", Ontario Collaborative Innovation Platform, The city of Toronto, CivicLabTO Research, Sep 2023.
- 5. Samar Sabie, Ted Kesik, Seungjae Lee, **Mohammad Noaeen**. "Identifying Workforce Development Requirements for Prefabricated Home Overcladding Services in Toronto through a Tri-Method Approach", Ontario Collaborative Innovation Platform, The city of Toronto, CivicLabTO Research, Sep 2023.

PROFESSIONAL EXPERIENCE

Research Assistant

Institute of Health Policy, Management and Evaluation, DLSPH Dalla Lana School of Public Health, University of Toronto Harvard Business School, Marketing Unit, Harvard University Department of Civil and Mineral Engineering, University of Toronto School of Civil Engineering, Transport Engineering, University of Sydney Department of Electrical and Computer Engineering, University of Calgary Department of Civil Engineering, Imam Khomeini International University	June 2023- Present June 2022- Present Jan 2022- Present Mar 2021- Sep 2021 Sep 2021- Dec 2021 Sep 2014- Dec 2020 Sep 2006- Sep 2009
Supervision and Mentoring	
IHPME, DLSPH, University of Toronto Katherine Lu, Paijani Sheth, Zhi Lin Zhou (MSc students) "ML for Identifying Prediabetes"	Nov 2023- Mar 2024
IHPME, DLSPH, University of Toronto Chelsea Tanchip (MSc student) "ML for Predicting Donor Selection"	Nov 2023- Mar 2024
IHPME, DLSPH, University of Toronto Kayla Esser, Monica Duong, Khalil Kain, Son Tran (MSc student) "ML for Predicting Diabetes Prevalence"	Nov 2023- Mar 2024
IHPME, DLSPH, University of Toronto Priyonto Saha, Yacine Marouf, Hunter Pozzebon (MSc student) "ML for Predicting the Time to Diabetes Onset"	Nov 2023- Mar 2024
IHPME, DLSPH, University of Toronto Konrad Samsel, Amrit Tiwana, Sarra Ali (MSc student) "ML for Predicting Depression"	Nov 2023- Mar 2024
Department of Civil and Mineral Engineering, University of Toronto Xiaocan Li (Ph.D. student) "Perimeter Control Using Deep Reinforcement Learning"	Nov 2021- Mar 2023
Department of Electrical and Computer Engineering, University of Calgary Saad Khurshid (Undergraduate student) "A Lane-based Traffic Signal Control Strategy for Emergency Vehicle Prees Vehicle Environment"	May 2015- Sep 2015

Department of Electrical and Computer Engineering, University of Calgary Jan 2020- Dec 2020 Atharva Naik, Liana Goodman, Jared Crebo, Taimoor Abrar (Undergraduate students) "Reinforcement Learning in Urban Network Traffic Signal Control"

Designer, Project Manager, Superintendent, Supervisor, and CEO Jul 2003- Feb 2013

Sakht-o-Saz Mehr Construction Company, Iran Construction: 15 projects, including residential, industrial, and educational buildings, roads, and bridges. Design and Supervision: 5 buildings

Development Skills

Programming and Scripting Languages - Python, R, Java, Processing **Database Tools** - NoSQL, SQL (PostgreSQL, MongoDB) Geo-Spatial Tools - ArcGIS **Operating Systems** - Linux, MacOS, Microsoft Windows Traffic Simulation - Aimsun, Vissim, Sumo Engineering and Visualization Tools - Tableau, Matlab, Maple, Sap, Safe, AutoCAD (2d/3d)

PROFESSIONAL SERVICE

Leadership and Academic Services (Volunteer)	
Member of Mobility Network Postdoctoral Community of Practice Mobility Network, University of Toronto	Dec 2022- Present
Selected to serve as the Student Volunteer The 25th IEEE International Requirements Engineering Conference, Lisbon, Po	Sep 2017 rtugal
Member of Computer Science Teaching and Learning (CSTL) Forum Department of Computer Science, University of Calgary	Sep 2016- Aug 2017
Facilitator of the boot camp writing sessions for graduate students Student Success Centre (SSC), University of Calgary	Jun 2016- Jun 2017
Member of Graduate Students Association (GSA) award committee Faculty of Graduate Studies, University of Calgary	Sep 2016- Sep 2017
Graduate Student Representative, Schulich Student Activity Fund Committee Schulich School of Engineering, University of Calgary	Oct 2016- Oct 2017
Vice President-Finance of Electrical and Computer Eng. Graduate Students Department of Electrical and Computer Engineering, University of Calgary	Apr 2015- Apr 2016
Graduate Student Representative, Schulich Student Activity Fund Committee Schulich School of Engineering, University of Calgary	Apr 2015- Apr 2016
Event-Based Volunteer, Persian Gulf Club Charity Foundation University of Calgary	Apr 2014- Apr 2016
Member of the Organizing Committee of Intelligent Data Analytic Workshop 20 Department of Electrical and Computer Engineering, University of Calgary	15 Mar 2015
Vice President-External, Electrical, and Computer Eng. Graduate Students Department of Electrical and Computer Engineering, University of Calgary	Jan 2015- Apr 2015

Technical Program Committee and Reviewer

The Lancet Planetary Health journal (Reviewer)	2024
The IEEE Intelligent Transportation Systems Conference (ITSC) (Reviewer)	$2023, \ 2024$
The IET Intelligent Transport Systems (Reviewer)	$2023, \ 2024$
Journal of Environmental Science and Technology (Reviewer)	$2023, \ 2024$
Journal of Expert Systems with Applications (Reviewer)	$2022,\ 2023,\ 2024$
IEEE Transactions on Intelligent Transportation Systems (Reviewer)	2018, 2019, 2022, 2024
Journal of Traffic and Transportation Engineering (English Edition) (Reviewe	r) <i>2022</i>
The IEEE Intelligent Transportation Systems Society Conference (Reviewer)	2022
The 12th International Workshop of Agents in Traffic and Transportation (Co	mmittee Member & Re-
viewer)	2022

HONOURS AND AWARDS

- AI for Public Health (AI4PH) Postdoctoral Scholarship Award, Canada - Data Science Institute Postdoctoral Fellowship Award, Canada	Aug 2024 Jun 2024
- BeSpatial Ontario award, 2024 Best Innovation in GIS Award, Canada (CANUE Team)	May 2024
- Google Earth's Geo for Good Impact Award, Canada (CANUE Team)	May 2024
- GSA's Excellence in Teaching Award, University of Calgary, Canada	Apr 2020
- Eberlein Systems Dynamics Graduate Scholarship, Alberta, Canada	Jan 2020
- ECE Research Productivity Award, University of Calgary, Canada Apr 2016,	2017, 2018
- Eberlein Systems Dynamics Graduate Scholarship, Alberta, Canada	Sep 2018
- IEEE RE'17 Best Tool Demonstration Award, Lisbon, Portugal	Sep 2017
- Vanier Scholarship finalist, University of Calgary, Canada	Sep 2016
- MSc Graduate Excellence Award, University of Calgary, Canada	Apr 2016
- Schulich Student Activities Fund (SSAF) Award, University of Calgary, Canada	Apr 2016
- Ranked Top 2% in the National University-Entrance Exam (MSc), Iran	2006
- Member of the National Organization for Development of Exceptional Talents (NODET), Iran	1994-2001

CITIZENSHIP

- Canadian Citizen
- Iranian

REFERENCES

Dr. Behrouz H. Far

Professor of Computer Engineering Dept. of Electrical and Computer Engineering University of Calgary, Canada Phone: +1 (403) 210-5411 Email: far@ucalgary.ca

Dr. Jeffrey R. Brook

Associate Professor of Environmental Health Dalla Lana School of Public Health University of Toronto, Canada Phone: +1 (416) 978-5883 Email: jeff.brook@utoronto.ca

Dr. Ahmad Radmanesh

Adjunct Professor of Electrical Engineering Dept. of Electrical and Computer Engineering University of Calgary, Canada Phone: +1 (403) 437 2336 Email: aradmane@ucalgary.ca

Dr. Karim Keshavjee

Assistant Professor of Health Informatics Inst. of Health Policy, Management and Evaluation University of Toronto, Canada Phone: — Email: karim.keshavjee@utoronto.ca

Dr. Mohsen Ramezani Associate Professor of Transportation Engineering School of Civil Engineering University of Sydney, Australia Phone: +61 2 9351 2119 Email: mohsen.ramezani@sydney.edu.au

Dr. Julian de Freitas Assistant Professor of Marketing and Business Harvard Business School Harvard University, USA Phone: +1 (617) 495-4944 Email: jdefreitas@hbs.edu

Dr. Dany Doiron Research Associate of Environmental Epidemiology Respiratory Epidemiology and Clinical Research Unit McGill University Health Centre, Canada Phone: +1 (416) 978-5883 Email: dany.doiron@canue.ca