

Curriculum Vitae

Sorour Rostampour

General

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Education

- MSc in **Health and Aging**, School of Health Studies, Health & Rehabilitation Sciences, **Western University**, London, Ontario, Canada (2021-2023)
- BSc in **Occupational Therapy**, School of Rehabilitation Sciences, Shahid Beheshti University of Medical Sciences (**SBUMS**), Tehran, Iran (2013-2017)
- High School Diploma in **Empirical Sciences**, Ghods Shahed, Paveh, Iran (2009-2013)

Research Interests

- Artificial intelligence in Rehabilitation Science
- Machine Learning
- Risk Prediction
- Injury Prediction & Prevention

Awards and Honors

School:

- **Class top mark in graduate courses** including HEALTSCI 9740A (Topics in Health and Aging), Western University, (2021-2022)
- **Research Development Fund**, Western University, Faculty of Health Sciences, (2020)
- **Mid-Career Support Grant**, Western University, Faculty of Health Sciences, (2018)
- **Ranked Top 1%** in the Nationwide Undergraduate University Entrance Exam in the Field of Empirical Sciences in Iran, (2013-2014)
- **Student Bursary**, Shahid Beheshti University of Medical Sciences, (2013-2017)
- **Outstanding Student** of Class for the Last Three Semesters of BSc Studies (2016-2017)

Sports:

- **3rd Place** in Ping Pong Competition Among Female Medical Students of Iran
- **1st Place** in Ping Pong Competition Among High School Students of Province of Kermanshah, Iran.

- **1st Place** in Ping Pong Competition Among Middle School students of Province of Kermanshah, Iran.
- **1st Place** in Ping Pong Competition Among Elementary School Students of Kermanshah, Iran.

Writing:

- **1st Place** in Writing Short Stories Among Middle School Students of Paveh, Province of Kermanshah, Iran.

Publications

Academic:

Journal Paper:

- **Rostampour, S., & Zecevic, A., (2025).** Identifying Informative Diagnoses Associated with Fall-Related Injuries in Ontario's Older Adults: A Machine Learning Approach, *Journal of Safety Research* (Under Review).
- **Rostampour, S., & Zecevic, A., (2025).** Comparative Analysis of Machine Learning Models for Predicting Fall-Related Injuries in Older Adults of Ontario, *Journal of Biomedical Informatics* (Under Review).
- **Rostampour, S., & Pirayonesi, S. M., (2025).** Quantifying the Risk of Fall in People with Multiple Sclerosis Using Machine Learning Powered Decision Support System, Multiple Sclerosis and Related Disorders, (Forthcoming).
- Pirayonesi, S. M., Azvar, M., **Rostampour, S.,** Nasser, M., and Fazeli, A. (2025). Climate Change and Pavement Deterioration Modeling: Patterns and Future Trends. *Transportation Geotechnics*. [Under Review]
- Pirayonesi, S. M., **Rostampour, S., & Pirayonesi, S. A. (2021).** Predicting Falls and Injuries in People with Multiple Sclerosis Using Machine Learning Algorithms. *Multiple Sclerosis and Related Disorders*, 49 (4), 102740.
<https://doi.org/10.1016/j.msard.2021.102740>

Thesis:

- **MSc Thesis**
 - Rostampour, S. (2023). Association of Fall-Related Injuries and Different Diagnoses in Older Adults of Ontario: A Machine Learning Approach, Department of Health and Rehabilitation Sciences, Western University.
- **BSc Thesis**
 - Rostampour, S. (2017). Activities of Daily Living (ADL) and Instrumental Activities of Daily Living in Children, Shahid Beheshti University of Medical Sciences, School of Rehabilitation Sciences.

Conference Presentations:

- **Rostampour, S. Zecevic, A., Booth, R. (2025).** Machine Learning Analysis of Diagnostic Categories Associated with Fall-Related Injuries of Older Adults Admitted to Emergency Department and Hospital, Canadian Fall Prevention, Toronto, Ontario, Canada
- **Rostampour, S. Zecevic, A., Booth, R. (2023).** Association of Fall-Related Injuries and Different Diagnoses in Older Adults of Ontario: A Machine Learning Approach, Canadian Association on Gerontology, Toronto, Ontario, Canada.
- **Rostampour, S. (2017).** Activities of Daily Living (ADL) and Instrumental Activities of Daily Living in Children, Shahid Beheshti University Conference of Occupational Therapy, Tehran.

Book

Academic:

- Rostampour, S. (2020). The Alphabet of Stretching Exercises, Dastan Publication, ISBN: 978-600-481-214-60, Tehran, [in Persian].

Non-Academic:

- Rostampour, S. (2017). A Poetry Chapbook, Kani Kteb, Sanandaj, ISBN: 978-600-7968-92-5, [in Kurdish].

Work Experience

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| <ul style="list-style-type: none"> • Data Analyst at TELUS International, Toronto, Ontario (2024-Present) • Data Analyst at Paraw Inc., Toronto, Ontario (2024-Present) • Graduate Research Assistant at Western University, London, Ontario (2021-2023) <ul style="list-style-type: none"> ○ Conducting research involving the application of machine learning algorithms (decision tree, random forest, and extreme gradient boosting tree) to forecasting fall-related injuries in older adults in Ontario • Teaching Assistant <ul style="list-style-type: none"> ○ OT 9691 Occupation-based Inquiry Part II, Western University, London, Ontario, (2022-2023) ○ OT 9641: Occupational Analysis & Engagement: Environment and Occupation, Western University, London, Ontario, (2022-2023) ○ APPLHSCI 9008 Health and Well-Being in Children and Youth, Western University, London, Ontario, (2022-2023) ○ HS 1001a: Personal Determinants of Health, Western University, London, Ontario, (2021-2022) • Research Analyst at University of Toronto, Toronto, Ontario (2020-2021) • Occupational Therapist at Iran's Rehabilitation Center for Spinal Cord Injuries, Tehran, Iran (2021) |
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- **Data Analyst at Loghman Hakim Hospital**, Tehran, Iran (2019-2021)
- **Occupational Therapist at Loghman Hakim Hospital**, Tehran, Iran (2017-2021)
 - Patient Assessments
 - Intervention Planning in Patients with Physical Disabilities
 - Pre-Surgical and Post-Surgical Care in Patients with Physical Disabilities
- Extensive Experience in **Patient Home Visit**, Tehran, Iran (2017-2021).
- **Occupational Therapist at Naziabad Rehabilitation Center**, Tehran, Iran (2019-2020)
- **Occupational Therapy Intern at Shahid Beheshti University of Medical Sciences**, Tehran, Iran, (2015-2017).

Volunteer and Leadership Experience

- Organizing Committee Member: **Hojan Science Forum**-University of Ottawa, Ottawa, ON, (August 2025)
- Teaching English as a Second Language (ESL) to Low-Income People, Tehran, (2019-Present)
- Offering Occupational Therapy Services to People Hit by Iran-Iraq Earthquake, Sarpol-e Zahab, (2018)

Computer Skills

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| • SPSS (Statistical Analysis) | • PowerPoint (Presentation) |
| • Microsoft Excel (Data Analysis and Cleaning) | • RapidMiner (Analytics) |
| • Python (Data Analytics) | • R (Data Analytics) |
| • Power BI (Data Visualization and Analytics) | • SAS (Data Analytics) |

Certifications

- Certified in Analyzing and Visualizing Data with Microsoft Power BI, Pragmatic Works, 2024
- Currently in the Process of Acquiring a Canadian License to Practice as a **Registered Occupational Therapist** in Ontario
- Certified in Analysis Methods in Musculoskeletal disorders, Bone and Joint Diseases Research Center, 2020
- Certified in Multiple Sclerosis Management in Occupational Therapy, SBMU, 2017
- Certified in Pediatric Massage and Clinical massage for Patients with Physical Disorders, OT Community of Tehran, 2017
- Certified in Kinesio Taping for Patients with Disability, OT Community of Tehran, 2017

References

- Dr. Aleksandra Zecevic, Associate Professor, School of Health Studies, Western University, Tel: 519 661-2111 ext. 80455, Email: azecevi2@uwo.ca
- Dr. S. Madeh Piryonesi, Assistant Professor, Department of Civil Engineering, Lakehead University, Tel: +1 (807) 343-8110ext. 8342, Email: madeh.piryonesi@lakeheadu.ca