

**Title:** Postdoctoral Fellow – Human-AI Interaction: Automated Vehicles

**Location:** Toronto Rehabilitation Institute, University Health Network (TRI-UHN)  
Downtown Toronto, ON, Canada

**Start Date:** Immediately

**Closing Date:** Until the position is filled

Joint Appointment at **The Artificial Intelligent & Robotics in Rehab Team** and **the Multisensory Integration in Virtual Environments Laboratory** at **Toronto Rehab Institute – UHN**

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**Description:**

We are seeking a Postdoctoral Fellow to lead research projects at the intersection of Human-AI Interaction, automated vehicles, and older adults' well-being. Our work combines experimental, technical, and translational research, focusing on means of advancing the usability of automated vehicles as a potential tool to prolong the safe driving of older adults with and without dementia. This position will require involvement in activities ranging from data analysis, data collection, predictive modeling, and knowledge translation.

This position will involve collaboration with our multi-disciplinary team comprising of biomedical engineers, psychologists, clinicians, and stakeholder advisory committee consisting of people living with dementia and care-partners. The successful candidate will be uniquely positioned to form collaborations within and beyond the local and national collaborators of the research program.

The successful candidate is expected to undertake independent, high-quality, collaborative research; lead grant applications; lead the dissemination of the research program; and help supervise undergraduate and graduate students. The successful candidate is expected to have a track-record in physiological data analysis, data collection (previous experience with individuals living with dementia is preferred), and/or conducting driving simulator studies. While, the team currently have multiple data-sets available for further analysis, future work may include data collection using [DriverLab \(Toronto Rehab Driving Simulator\)](#).

The successful candidate will be co-supervised by Dr. Alex Mihailidis, Barbara G. Stymiest Research Chair in Rehabilitation Technology at the University of Toronto and Senior Scientist at TRI-UHN, and Dr. Jennifer Campos, Canada Research Chair (Tier 2), Multisensory Integration and Aging; and Senior Scientist at TRI-UHN.

The post-doctoral position will be for a one-year term, with a possible extension to two years. The salary will be based on the applicant's previous experience.

**Candidate Requirements:**

- PhD degree obtained within the past 3 years or a PhD near graduation in engineering, computer science, or a related field
- Demonstrated expertise in one of the areas of Human-AI Interaction, physiological data analysis, Human Factors of Automated Vehicles, technology design for people living with dementia
- Experience working with a driving simulator is highly desirable,
- Highly self-motivated and creative individual with strong publication records (First author publications in related topics to the research program),
- Excellent writing and communication skills,
- Ability to work effectively both independently and as a member of a team is a prerequisite.

Vaccines (COVID-19 and others) are a requirement of the job unless you have an exemption on a medical ground pursuant to the Ontario Human Rights Code.

**How to apply?**

Interested candidates should send a cover letter and an academic CV with the name of three references to [Alex.Mihailidis@utoronto.ca](mailto:Alex.Mihailidis@utoronto.ca) with the subject "Automated Vehicles Postdoc". Only the selected candidates will be contacted for interviews.