**Postdoctoral Fellowship – Social Dynamics Modeling, jointly at the University of Toronto and Brock University**

**Background**

We seek outstanding candidates for a post-doctoral position in social dynamics modeling, to contribute to an interdisciplinary project on behavioural diffusion. Addressing major societal challenges, such as pandemic response and climate change, often requires large-scale behavioural change among the general public. Behavioural change is a complex, dynamic process unfolding within a population of heterogeneous, interdependent individuals. Our aim is to develop and test formal models of behavioural diffusion in order to (1) advance our understanding of complex social processes and (2) inform the design of more effective public interventions. The successful candidate will develop new methods to determine the identifiability of decision-making dynamics, perform stability analysis, and investigate the possibility of data fitting and control of the dynamics.

**Position Requirements**

* A PhD degree in systems and control, applied mathematics, or a related field
* Background knowledge in dynamical and/or complex systems, social networks
* Reasonable programming skills
* Experience in working with data
* Strong writing and communication skills
* A track record of successful publications

**Applications**

The Post Doctoral Fellow will be co-supervised by Professor Pouria Ramazi at the Mathematics and Statistics Department of Brock University, Canada and Professor Fedor Dokshin at the Department of Sociology, University of Toronto. Interested candidates should send an email to ([pramazi@brocku.ca](mailto:pramazi@brocku.ca)) with the subject “postdoc in **social dynamics modeling**” and attach their CV, statement of interest and contact details of two referees that may be contacted directly. Women and members of underrepresented groups are strongly encouraged to apply. The position will remain open until it is filled. The position can begin immediately with a strongly desired start by Fall 2023. Only selected candidates will be contacted.