

# Postdoctoral Fellowship in Identification of Decision-making Dynamics Brock University

## Background

Adopting or rejecting new technology, following or ignoring fashion trends, and abiding by or breaking non-pharmaceutical policies are examples of populations of interacting individuals who decide between available actions over time. The evolution of the individuals' decisions results in the so-called “decision making dynamics.” Predicting and ideally controlling the long-term behavior of the dynamics is of great interest to a wide range of scientists and policy makers because of their applications in, for example, social networks, marketing, and health management. This postdoctoral research position will develop new methods to determine the identifiability of decision-making dynamics and investigate the possibility of data fitting.

## Position Requirements

- A PhD degree in systems and control, applied mathematics, or a related field
- Background knowledge in dynamical systems, system identification, and observer design
- Reasonable programming skills
- Experience in working with data
- Strong writing and communication skills
- A track record of successful publications

## Applications

The Postdoctoral Fellow will be supervised by Professor Pouria Ramazi at Brock University, Canada. Interested candidates should send an email to ([pramazi@brocku.ca](mailto:pramazi@brocku.ca)) with the subject “postdoc in identification of decision-making dynamics” and attach their CV, statement of interest and contact details of two referees that will be contacted directly after the interviews. The position will remain open till they are filled with contracts starting as soon as possible.