



Mechanical & Industrial Engineering
UNIVERSITY OF TORONTO

Thesis Projects (MIE498 H/Y) 2018–2019

Title/Topic: Simulating the impact of brain lesions on the communication between memory and oculomotor systems

Description:

We are seeking a student to lead a project that would be supervised by Dr. Randy McIntosh and Dr. Jennifer Ryan at the Rotman Research Institute at Baycrest. The project is focused on simulating the impact of brain lesions on the communication between memory and oculomotor systems. It involves using The Virtual Brain software (<http://thevirtualbrain.org>) to create large-scale dynamical systems models to estimate network integrity and changes in communication features when specific network nodes are damaged. Working knowledge of Python is mandatory.

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