Graduate Student Positions Available
Cognitive Neuroscience of Memory and Aging
Lab of Prof. M. Natasha Rajah,
McGill University, Montreal, QC, Canada

The laboratory of Prof. Natasha Rajah, Department of Psychiatry, McGill University (Montreal, Canada) is currently seeking talented and motivated graduate students.

Our research focus is on conducting cross-sectional adult lifespan studies using neuroimaging methods to investigate healthy brain aging and its impact on memory function. In addition, we study how genetic risk factors for late-onset Alzheimer's disease (AD), biological sex, and sex hormones impact memory and brain function across the adult lifespan. We use a variety of fMRI and structural MRI analytic methods to understand how these aforementioned variables are associated with age-related differences in brain structure, function, and connectivity; and how this in turn impacts memory and other cognitive processes at different stages of adulthood.

Graduate students have the opportunity to design, conduct and analyse structural and/or functional MRI studies. Students are encouraged to learn and develop their unique research interests within the framework of funded research programs; attend educational courses; and, present at conferences. To learn more about our lab please visit: http://www.rajahlab.com
Starting date: January 2018 or September 2018
Duration: Funding is available for 2yrs of Master's (M.Sc.) training, followed by 3yrs of Ph.D. training for two graduate students. Transition from M.Sc. to the PhD program will depend on the students' research progress. Accepted students must remain in good academic standing and meet the course work requirement for their graduate program.
Academic Requirements: 1) Successful completion of a B.Sc./B.A. honours degree with a major or specialization in Psychology/Neuroscience or related field; 2) A competitive GPA; 3) Completion of introductory statistics courses and knowledge of basic statistics (t-test, F-test, simple regression) is a must. Having research experience and completion of an undergraduate honours thesis are assets. A keen interest in cognitive neuroscience, memory, brain aging and neural networks is essential to joining the lab.
Skills: Applicants must have: i) basic knowledge about research in the fields of human memory, ii) basic knowledge of human neuroanatomy, iii) good computer skills, and iv) have some training in mathematics and/or statistics. communication skills in English (spoken and written). Communication skills in French are an asset. Having knowledge of Matlab, SPSS and prior experience with MRI processing software is an asset.
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