

### **Post-Doctoral Position Available:**

A postdoctoral position is available immediately working with Dr. Taylor Schmitz in the Brain and Mind Institute at Western University.

Our program of research focuses on the organization, function and disease-related dysfunctions of the cholinergic system. This NIA funded project will investigate the structural and functional integrity of the cholinergic basal forebrain system in the aging human brain. The successful candidate will use 'big data' (e.g. large-scale longitudinal datasets including the Alzheimer's Disease Neuroimaging Initiative and the PREVENT-AD datasets) to investigate the pathophysiological triggers of basal forebrain degeneration in preclinical AD and its relationship to longitudinal trajectories of cortical degeneration and neurocognitive decline.

We are seeking a highly motivated person interested in developing novel approaches for longitudinal data fusion and analysis of multimodal datasets—including structural and functional MRI, PET, CSF, genomics and neuropsychology—with the goal of developing better techniques for monitoring age-related changes in central cholinergic integrity in vivo. The responsibilities of the candidate will include leading the organization, integration and analysis of large-scale datasets, manuscript preparation, and participation in student training and grant writing. The candidate will also provide a vital link between the Centre for Functional and Metabolic Mapping and the Brain and Mind Institute.

Qualified applicants for this position should have a PhD degree in Neuroscience, Computer Science, Biomedical Engineering, or a related discipline. Experience with programming (e.g. Matlab, Python) and working with multiple different neuroimaging modalities (e.g. structural MRI, resting state fMRI, diffusion weighted imaging, and PET) and would be an asset.

The position is funded for up to two years through the National Institute on Aging and is open immediately. Applications will be accepted until the position is filled. Please send a statement of interest, Curriculum Vitae, and the names of at least two references to:

Dr. Taylor W. Schmitz, PhD  
Brain and Mind Institute  
Western Interdisciplinary Research Building  
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Email: [tschmitz@uwo.ca](mailto:tschmitz@uwo.ca)

For further details on Dr. Schmitz's research, see <http://www.taylorsschmitz.com/>. For more information on the Brain and Mind Institute, see [www.uwo.ca/bmi](http://www.uwo.ca/bmi).

Western University is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, Aboriginal persons and persons with disabilities.