CURRENT RESEARCH OPPORTUNITIES

Graduate Program: Anatomy & Cell Biology, Biochemistry, Epidemiology and Biostatistics, Family Medicine, Microbiology & Immunology, Pathology & Lab Medicine, Physiology & Pharmacology, Neuroscience, Surgery

Research Cluster(s): Cognitive & Developmental Brain Sciences

Supervisor(s): Dr. Blake Butler

Keywords: Neuroplasticity, Sensory Loss, MRI, Neuroimaging, Animal Models

Vacancies: 1

MSc/PhD or Postdoc Available?: MSc (2 years) or PhD (4 years)

Description: Our lab has an open position for a graduate student interested in studying neuroplasticity and sensory perception in a feline model of profound hearing loss. Core projects involve neuroimaging of visually-evoked cortical activity and whole-brain network analyses. Fluency in Matlab or Python would be an asset. Please contact me directly for more details.

To Apply: Applicants must independently apply to the Neurosciences program using the online Western application portal, including a clear reference to the supervisor

Application Deadline: None at this time

Contact Information: Questions regarding the application process, or inquiries about the program may be addressed to the Academic Programs Coordinator, for more information about the description/design of the project, you may contact Dr. Butler directly: bbutler9@uwo.ca
# CURRENT RESEARCH OPPORTUNITIES

**Graduate Program:** Anatomy & Cell Biology, Biochemistry, Epidemiology and Biostatistics, Family Medicine, Microbiology & Immunology, Pathology & Lab Medicine, Physiology & Pharmacology, Neuroscience, Surgery

**Research Cluster(s):** Cognitive & Developmental Brain Sciences

**Supervisor(s):** Dr. Blake Butler

**Keywords:** Neuroplasticity, Sensory Loss, Layer Specific MRI, Neuroimaging, Animal Models

**Vacancies:** 1

**MSc/PhD or Postdoc Available?:** Postdoctoral (2 years)

**Description:** We’re seeking a postdoctoral associate interested in the study of sensory perception in a feline model of profound hearing loss. The successful candidate will work with researchers including the BrainsCAN Computational Core to develop pipelines for layer-wise analyses of neuroimaging data acquired on the research-dedicated Siemens 7T scanner housed at the Centre for Functional and Metabolic Mapping. They will also be encouraged to develop independent projects that build upon the laboratory’s ongoing work (this may include animal or human neuroimaging). Full ad here: https://bit.ly/383QFin

**To Apply:** Applicants must independently apply to the Neurosciences program using the online Western [application portal](https://bit.ly/383QFin), including a clear reference to the supervisor

**Application Deadline:** None at this time

**Contact Information:** Questions regarding the application process, or inquiries about the program may be addressed to the Academic Programs Coordinator, for more information about the description/design of the project, you may contact Dr. Butler directly: bbutler9@uwo.ca
CURRENT RESEARCH OPPORTUNITIES

**Graduate Program:** Anatomy & Cell Biology, Biochemistry, Epidemiology and Biostatistics, Family Medicine, Microbiology & Immunology, Pathology & Lab Medicine, Physiology & Pharmacology, **Neuroscience**, Surgery

**Research Cluster(s):** Psychology & The Brain and Mind Institute, Neuroscience

**Supervisor(s):** Dr. Jessica Grahn

**Keywords:** Music, rhythm, neuroimaging, brain stimulation, Parkinson’s disease

**Vacancies:** 2 (see below)

**MSc/PhD or Postdoc Available?:** Masters (2 year), Doctoral (4 year)

**Description:** Projects areas available include: examining cross-species comparisons of rhythm and beat perception, using Transcranial Magnetic Stimulation to assess how motor excitability is affected by rhythmic auditory stimuli.

International students will need to obtain external funding to be likely to be considered.

**To Apply:** Applicants must independently apply to the Neuroscience program using the online Western application portal, including a clear reference to the supervisor (Please insert anything needed in addition to the traditional application)

**Application Deadline:** N/A

**Contact Information:** Questions regarding the application process, or inquiries about the program may be addressed to the Academic Programs Coordinator, for more information about the description/design of the project, you may contact Dr. Grahn directly: jgrahn@uwo.ca.
**CURRENT RESEARCH OPPORTUNITIES**

**Graduate Program:** Anatomy & Cell Biology, Biochemistry, Epidemiology and Biostatistics, Family Medicine, Microbiology & Immunology, Pathology & Lab Medicine, Physiology & Pharmacology, Neuroscience, Surgery

**Research Cluster(s):** Computational Neuroscience

**Supervisor(s):** Dr. Lyle Mueller

**Keywords:** Computational Neuroscience, Computer Vision, Machine Learning, Vision, Memory

**Vacancies:** 2

**MSc/PhD or Postdoc Available?:** PhD (4 years)

**Description:** Applications are invited for our group in computational/theoretical neuroscience at the Department of Applied Mathematics and the Brain and Mind Institute (BMI). Projects focus on new algorithms for multisite data, network models, and computation with spatiotemporal dynamics in neural systems. Analysis, modeling, and theory will be conducted in close collaboration with experimental colleagues, including multi-site recordings in NHP (John Reynolds, Salk Institute; Julio Martinez-Trujillo, Western) and human clinical intracranial recordings (London Health Sciences Centre).

**To Apply:** Applicants must independently apply to the Neurosciences program using the online Western [application portal](https://www.westen.ca), including a clear reference to the supervisor.

**Application Deadline:** None at this time

**Contact Information:** Questions regarding the application process, or inquiries about the program may be addressed to the Academic Programs Coordinator, for more information about the description/design of the project, you may contact Dr. Butler directly: lmuller2@uwo.ca