



POSITIONS FOR TRAINEES (M.SC. / PH.D. / POST-DOC)

Research field

and

environment

- ✓ The research team in **Sensorimotor rehabilitation & Pain** of the Center for Interdisciplinary Research in Rehabilitation and Social Integration (CIRRIS, affiliated with Université Laval, Quebec City) is seeking candidates interested in pursuing a master's, doctoral or post-doctoral training in the **area of pain and/or sensorimotor control**.
- ✓ Research from our group includes **basic science (human-based) studies** as well as **clinical studies** targeting acute or chronic pain in populations with neurological or musculoskeletal disorders.
- ✓ The lab is led by **Catherine Mercier OT PHD**, FRSQ Emeritus Research Scholar and Holder of the Université Laval Research Chair in Cerebral Palsy. Her dynamic research team is composed of graduate and post-doctoral trainees from various disciplines. Research professionals support trainees in the development of advanced methodological skills such as robotics, virtual reality, motion analysis, electrophysiology and non-invasive brain stimulation.
- ✓ With its 66 researchers and 130 trainees, the CIRRIS covers a wide spectrum of disciplines that makes it a **dynamic and stimulating environment** for students (various activities are organized by the CIRRIS student committee).

Selection criteria

- ✓ Excellence of academic and research record
- ✓ Knowledge in the fields of motor control and / or pain
- ✓ Ability to use a variety of computer software (an asset, but not a prerequisite)
- ✓ Sufficient ability to communicate in French and English (mandatory for graduate students, to be discussed for postdoctoral trainees)

Funding is available, depending on the qualifications of the candidate. It should be noted, however, that eligible candidates are expected to apply for external scholarships.

Contact and useful links

You can address your inquiries or submit your application to the following address:
catherine.mercier@rea.ulaval.ca

<http://cirris.ulaval.ca/en>

<https://www.ulaval.ca/en/>

<http://www.cirris.ulaval.ca/en/comite-etudiant>



SENSORIMOTOR CONTROL & PAIN

CATHERINE MERCIER'S LAB

Virtual reality
and
Robotics

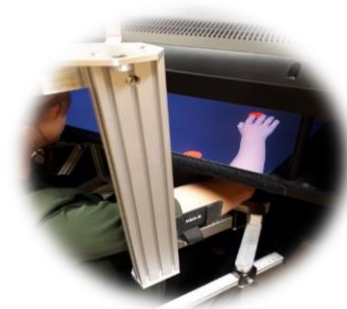
Non-invasive
brain
stimulation

Motion analysis
and
Electrophysiology

SOME RECENT PUBLICATIONS

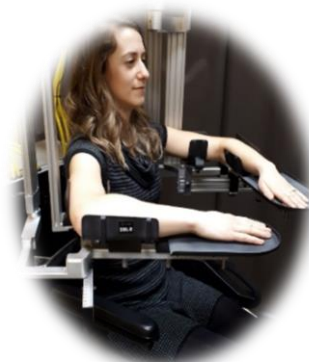
[Roosink et al. 2015. PLOS ONE, 10 \(3\)](#)

Assessing the perception of trunk movements in military personnel with chronic non-specific low back pain using a virtual mirror.



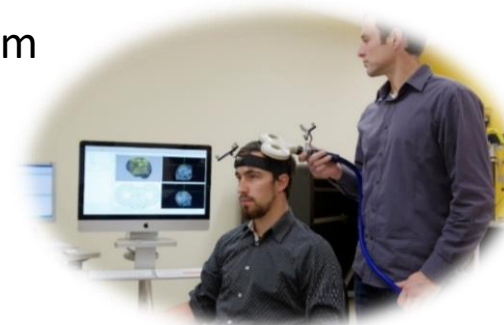
[Brun et al. 2018. The Journal of Pain, 20 \(1\)](#)

Exploring the Relationships Between Altered Body Perception, Limb Position Sense, and Limb Movement Sense in Complex Regional Pain Syndrome.



[Neige et al. 2018. The Journal of Physiology, 596 \(14\)](#)

Effect of movement-related pain on behaviour and corticospinal excitability changes associated with arm movement preparation.



[Mavromatis et al. 2017. Brain Science, 7\(2\)](#)

Effect of Experimental Hand Pain on Training-Induced Changes in Motor Performance and Corticospinal Excitability

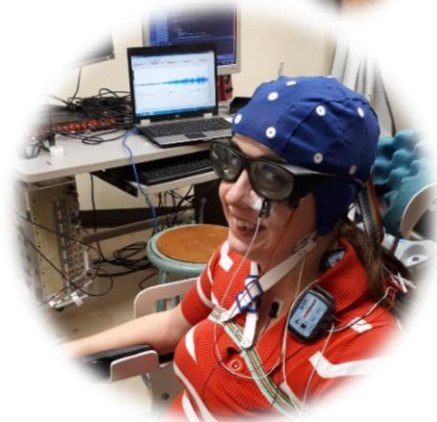


[Bouffard et al. 2018. J Neurophysiol, 119](#)

Effect of experimental muscle pain on the acquisition and retention of locomotor adaptation: different motor strategies for a similar performance

[Dubois et al. 2018. PLOS ONE, 13 \(10\)](#)

Effect of pain on deafferentation-induced modulation of somatosensory evoked potentials.



All publications:

<https://scholar.google.ca/citations?user=dddiU5IAAAAJ&hl=en>