

Carl Michael Galang, PhD

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Employment

POST-DOCTORAL RESEARCH FELLOW (2020-Current)

Social Brain, Body and Action Lab
Department of Psychology, Neuroscience and Behaviour
McMaster University
Co-supervisors: Sukhvinder Obhi (McMaster University) & Marcel Brass (Humboldt University of Berlin)

Education

MCMASTER UNIVERSITY (2015-2020)

Department of Psychology, Neuroscience & Behaviour

PhD in Social Cognitive Neuroscience

Supervisor: Sukhvinder Obhi

Committee Members: Laurel Trainor, Bruce Milliken, & David Feinberg

External Examiner: Claus Lamm (University of Vienna)

Thesis Title: *Pain Observation, Empathy, and the Sensorimotor System: Behavioural and Neurophysiological Explorations*

UNIVERSITY OF TORONTO (2009-2014)

University College, St. George Campus

Honours B.A. (with distinction)

Double Major: Cognitive Science & Philosophy

Minor: Psychology

Publications

Galang, C.M., Johnson, D., & Obhi, S.S. (In Press). Exploring the Relationship Between Empathy, Self-Construal Style, and Self-Reported Social Distancing Tendencies During the COVID-19 Pandemic. *Frontiers in Psychology*.

Galang, C.M., Pichtikova, M., Sanders, T., & Obhi, S.S. (In Press). Investigating the effects of pain observation on approach and withdrawal actions. *Experimental Brain Research*.

- Galang, C.M.** & Obhi, S.S. (In Press). To Move or Not to Move: Cortico-spinal activity is enhanced during pain observation regardless of motor preparation state. *Journal of Neurophysiology*.
- Galang, C.M.** & Obhi, S.S. (2020). Automatic imitation does not predict levels of generosity during a modified dictator game. *Acta Psychologica*, 204, 103022.
- Galang, C.M.**, Jenkins, M., & Obhi, S.S. (2020). Exploring the Effects of Visual Perspective on the ERP Components of Empathy for Pain. *Social Neuroscience*, 15(2), 186-198.
- Galang, C.M.** & Obhi, S.S. (2020). Please Empathize! Instructions to empathize strengthen response facilitation after pain observation. *Cognition and Emotion*, 34(2), 316-328.
- Galang, C.M.** & Obhi, S.S. (2019). Social Power and Frontal Alpha Asymmetry. *Cognitive Neuroscience*, 10(1), 44-56.
- Civile, C., Elchlepp, H., McLaren, R., **Galang, C.M.**, Lavric, A., & McLaren, I.P.L. (2018). The effect of scrambling upright and inverted faces on the N170. *Quarterly Journal of Experimental Psychology*, 71(11), 2464-2476.
- Galang, C.M.**, Naish, K.R., Arbabi, K., & Obhi, S.S. (2017). Observing painful events in others leads to temporally extended general response facilitation in the self. *Experimental Brain Research*, 235(11), 3469-3477.
- Naish, K.R., Rajagopal, A., **Galang, C.M.**, Sartori, L., & Obhi, S.S. (2017). Effects of intentional movement preparation on response times to symbolic and imitative cues. *Experimental Brain Research*, 235(3), 753-761.

Under Review

- Galang, C.M.**, Jenkins, M., Fahim, G., & Obhi, S.S. (Under Review). Exploring the relationship between social power and the ERP components of empathy for pain. *Social Neuroscience*.

In Preparation

- Malik, R., Obhi, S.S., **Galang, C.M.**, & Finger, E. (In Prep.). The Sense of Agency for Brain Disorders: A Comprehensive Review and Proposed Unified Model.
- Galang, C.M.**, Jenkins, M., Sanders, T., Vijh, R., & Obhi, S.S. (In Prep.). Motor preparation during pain observation does not influence event-related Mu/Beta desynchronization.
- FORRT Team** (In Prep.). Introducing a Framework for Open and Reproducible Research Training (FORRT). <https://osf.io/bnh7p>.

Scholarships, Bursaries & Awards

MCMaster UNIVERSITY (\$ are in CAN unless otherwise stated)
 NSERC Post-Graduate Scholarship – Doctoral (2018-2020)

Value: \$42 000
Society for the Improvement of Psychological Science (SIPS) Travel Award (2018)
Value: \$400 (**USD**)
Department of Psychology, Neuroscience and Behaviour Travel Award (2018)
Value: \$400
Joyce Ontario Graduate Scholarship in Science (2017-2018)
Value: \$15 000
SPICES Grant (2017)
Value: \$2200 (funding for Open McMaster – an advocacy group on campus for Open Access issues)
LiveLab Research Grant (2016)
Value: 3 days of facility use and 21 hours of technical support from LiveLab staff.
OpenCon Travel Scholarship (2016)
Value: \$1500
Ontario Graduate Fellowship (2016-2017)
Value: \$12 000
SSHRC Canada Graduate Scholarship – Master’s Level (2015-2016)
Value: \$17 500
Ontario Graduate Scholarship (2015-2016, Declined for SSHRC Award)
Value: \$15 000

UNIVERSITY OF TORONTO

Gordon Cressy Leadership Award (2014)
Value: Highest student leadership award given by the University of Toronto at large
University College Merit Award (2014)
Value: Highest student leadership award given by University College
C.L. Burton Open Scholarship (2013-2014)
Value: \$500
Student Life Bursary (2012-2014)
Value: \$3100
Sunflower Scholarship (2012-2013)
Value: \$200
Dura Burke Leadership Award (2011-2012)
Value: \$500

Presentations

Conference Presentations

Galang, C.M. & Obhi, S.S. (2019). *Motor excitability during pain observation does not match behavioural response times after pain observation: A pre-registered study.* Poster presented at the 29th annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS). Waterloo, Canada.

Galang, C.M. & Obhi, S.S. (2018). *Observed Pain Intensity and Instructions to Empathize Modulate Response Facilitation.* Poster presented at the Joint Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Sciences (CSBBCS) and the Experimental Psychology Society (EPS). St. Johns, Canada.

Jenkins, M., **Galang, C.M.**, & Obhi, S.S. (2018). *Visual Perspective Taking in Pain Observation: Evidence from Event-Related Potentials*. Poster presented at the Joint Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Sciences (CSBBCS) and the Experimental Psychology Society (EPS). St. Johns, Canada.

Galang, C.M., Kragness, H., & Obhi, S.S. (2017). *Effects of social power on spontaneous synchronization*. Poster presented at the 13th annual NeuroMusic Conference. Hamilton, Canada.

Galang, C.M. & Obhi, S.S. (2017). *Feeling powerless decrease frontal left-hemisphere activity*. Poster presented at the 8th annual meeting of the Society for Social Neuroscience (S4SN). Washington D.C., USA.

Galang, C.M., Naish, K., Rajagopal, A., & Obhi, S.S. (2016). *Cross-Cultural Differences in Empathic Sensorimotor Resonance*. Poster presented at the 26th annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS). Ottawa, Canada.

Within Department Presentations

Galang, C.M. (2020). *The Replication Crisis*. Guest lecture presented for PSYCH 2C03 – Social Psychology. Hamilton, Canada.

Galang, C.M. (2019). *Self-Other Control and Prosocial Behaviours: Automatic imitation does not predict levels of generosity during a modified dictator game*. Cognition and Perception Seminar Series. Hamilton, Canada.

Galang, C.M. (2019). *The Social Cognitive Neuroscience of Empathy*. Guest lecture presented for PNB2XF3 – Perspectives in Psychology, Neuroscience and Behaviour. Hamilton, Canada.

Galang, C.M. (2018). *The Replication Crisis: What's the big deal?* Guest lecture presented for PNB3RM3 – Perspectives in Psychology, Neuroscience and Behaviour. Hamilton, Canada.

Galang, C.M. (2018). *Empathy for Pain*. Presented at the Department of Psychology, Neuroscience and Behaviour Seminar Series. Hamilton, Ontario.

Rushton, E., **Galang, C.M.**, & Obhi, S.S. (2018). *Caucasian Participants Show Opposite Racial Bias Effect When Observing Others in Pain*. Presented at the Department of Psychology, Neuroscience and Behaviour Thesis Poster Session. Hamilton, Ontario.

MacGrath, S., **Galang, C.M.**, & Obhi, S.S. (2017). *Oops... I did it again: Sense of Agency for failed stopping*. Presented at the Department of Psychology, Neuroscience and Behaviour Thesis Poster Session. Hamilton, Ontario.

Galang, C.M. (2017). *The Replication Crisis: What's the big deal?*. Guest lecture presented for PNB 3RM3 – Research Methods. Hamilton, Ontario.

Galang, C.M. (2017). *An Introduction to the Social Neuroscience of Intergroup Relations*. Guest lecture presented for PSYCH3CD3 – Intergroup Relations. Hamilton, Ontario.

Ku, M., **Galang, C.M.**, & Obhi, S. S. (2016). *The Effects of Power on Empathic Response to Pain (A Pilot Study)*. Presented at the NSERC USRA Poster Session, Hamilton, Ontario.

Galang, C.M. (2016). *The Social Cognitive Neuroscience of Empathy*. Guest lecture presented for PNB2XF3 – Perspectives in Psychology, Neuroscience and Behaviour. Hamilton, Canada.

Galang, C.M. & Berry, M. (2016). *Introduction to Data Management & Processing*. Guest lecture presented for PNB2XF3 – Perspectives in Psychology, Neuroscience and Behaviour. Hamilton, Canada.

Research Skills & Experience

PRIMARY (through research)

Electroencephalography (EEG – Time, Frequency, and Time-Frequency Domains)

Single Pulse Transcranial Magnetic Stimulation (sTMS)

Electromyography (EMG)

Behavioural Methods (e.g. Reaction Time Paradigms & Self-Report Inventories)

SECONDARY (through course work and lab training)

Transcranial Direct Current Stimulation (tDCS)

Electrodermal Activity (EDA)

Motion Capture Tools

Eye Tracking Tools

PROGRAMMING: Python, MATLAB, R, & SuperLab

Teaching Experience

COURSE INSTRUCTOR

Perspectives in Psychology, Neuroscience and Behaviour (PNB 2XF3): Winter 2020

TEACHING ASSISTANTSHIPS

The Psychology of Aging (PSYCH 3AG3): Winter 2020

Science Communication (PNB 4SC6): Fall 2019

Social Cognitive Neuroscience (PNB 4E03): Winter 2019

Perspectives in Psychology, Neuroscience and Behaviour (PNB 2XF3): Winter 2019

Research Methods (PNB 3RM3): Fall 2018

Descriptive Statistics (PNB 2XE3): Winter 2018

Research Methods (PNB 3RM3): Fall 2017

Intergroup Relations (PSYCH 3CD3): Winter 2017

Perspectives in Psychology, Neuroscience and Behaviour (PNB 2XF3): Fall 2016

Integrated Psychology, Neuroscience and Behaviour (PNB 2XD3): Winter 2016

Social Psychology (PSYCH 2C03): Fall 2015

Administrative and Extra-Curricular Activities

MCMASTER UNIVERSITY

Co-Founder and Co-Chair of ReproducibiliTea McMaster (2019-Current)
Departmental Colloquium Committee Co-Chair (2018-Current)
Graduate Student Conference Organizer (2017-2020)
NeuroTechX Hamilton Member (2017-Current)
Open McMaster Co-Founder (2017-2018)
OOOCanada (Open access, education, & data) Research Network Member (2016-2017)
Let's Talk Science Outreach Program Workshop Facilitator (2015-2017)
Departmental Colloquium Committee Member (2016-2017)
Department First-Year Graduate Student Representative (2016-2017)
McMaster Children & Youth University Workshop Facilitator (2015-2017)

UNIVERSITY OF TORONTO

University of Toronto Interdisciplinary Symposium on the Mind Committee Member (2013-2014)
Cognitive Science & Artificial Intelligence Students Association Volunteer (2013-2014)
University College Student Government President (2012-2013)
University College Student Government Academic Affairs Commissioner (2011-2012)
University College Student Government First-Year Representative (2009-2010)
University of Toronto/University College Orientation Week Leader & Executive (2010-2012)