

Carl Michael Galang, PhD

Curriculum Vitae

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Personal Information

McMaster University
McMaster Digital Transformation Research Centre
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Education

PhD in Social Cognitive Neuroscience, McMaster University 2020

Dept. of Psychology, Neuroscience, and Behaviour

Supervisor: Prof. Sukhvinder Obhi

Committee: Prof. Bruce Milliken, Prof. Laurel Trainor, Prof. David Feinberg

BA (with Hons.), University of Toronto 2014

Majors: Cognitive Science & Philosophy

Minor: Psychology

Professional Appointments

Postdoctoral Research Fellow Oct. 2021 – Sept. 2025

Humboldt-Universität zu Berlin, Berlin, Germany

Social Intelligence Lab & Berlin School of Mind and Brain

Supervisor: Prof. Marcel Brass

Publications

Journal Articles

Aczel, B., Szaszi, B., Clelland, H. T., Kovacs, M., Schulz-Kümpel, H., Holzmeister, F., ..., **Galang, C.M.**, ... & Nosek, B. A. (In Press). Investigating the analytical robustness of the social and behavioural sciences. *Nature*.

Galang, C.M., Cracco, E., Chirkov, V., Obhi, S.S., & Brass, M. (In Press). Sense of Agency during Group Control. *Journal of Experimental Psychology: General*.

Edwards, S., **Galang, C.M.**, Fung, K., Knight, A., & Obhi, S.S. (2025). Preliminary evidence for a selective agency-boosting effect of psychosocial stress. *Consciousness and Cognition*, 131, 103872.

Galang, C.M., Akan, A., Pfister, R., & Brass, M. (2025). Temporal binding during deliberate rule breaking. *Consciousness and Cognition*, 130, 103851.

Shum, Y.H., **Galang, C.M.**, & Brass, M. (2024). Using a Veto Paradigm to Investigate the Decision Models in Explaining Libet-style Experiments. *Consciousness and Cognition*, 124, 103732.

Galang, C.M., Cracco, E., & Brass, M. (2024). Anticipated imitation of multiple agents. *Cognition*, 249, 105831.

Quesque, F., Apperly, I., Baillargeon, R., [...], **Galang, C.M.**, [...], & Brass, M. (2024). Defining key concepts for mental state attribution. *Communications Psychology*, 2(29), 1-5.

Galang, C.M. & Obhi, S.S. (2022). Empathic pain observation does not influence automatic imitation in an online setting. *Experimental Brain Research*, 241, 263-276.

Malik, R., **Galang, C.M.**, & Finger, E. (2022). The Sense of Agency for Brain Disorders: A Comprehensive Review and Proposed Framework. *Neuroscience and Biobehavioral Reviews*, 139, 104759.

Mekik, S.C. & **Galang, C.M.** (2022). Cognitive Science in a Nutshell. *Cognitive Science*, 46, e13179.

Galang, C.M., Ku, M., & Obhi, S.S. (2021). Blatant Dehumanization is Not Influenced by Dual Identity Labels: Evidence from the Canadian Context. *International Journal of Psychological Studies*, 13(4), 62-74.

Galang, C.M., Malik, R., Kinley, I., & Obhi, S.S. (2021). Studying Sense of Agency Online: Testing the robustness of the intentional binding effect using an online sample. *Consciousness and Cognition*, 95, 103217.

Galang, C.M., Jenkins, M., Fahim, G., & Obhi, S.S. (2021). Exploring the relationship between social power and the ERP components of empathy for pain. *Social Neuroscience*, 16, 174-188.

Galang, C.M., Pichtikova, M., Sanders, T., & Obhi, S.S. (2021). Investigating the effects of pain observation on approach and withdrawal actions. *Experimental Brain Research*, 239, 847-856.

Galang, C.M. & Obhi, S.S. (2021). To Move or Not to Move: Cortico-spinal activity is enhanced during pain observation regardless of motor preparation state. *Journal of Neurophysiology*, 125, 599-605.

Galang, C.M., Johnson, D., & Obhi, S.S. (2021). Exploring the Relationship Between Empathy, Self-Construal Style, and Self-Reported Social Distancing Tendencies During the COVID-19 Pandemic. *Frontiers in Psychology*, 12, 588934.

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., Biswas, M., Luk, M., & Brass, M. (Under Review). Social Exclusion Does Not Affect Temporal Binding: Evidence Using a Cyberball Paradigm. *Journal of Experimental Social Psychology*.

Galang, C.M., Jenkins, M., Sanders, T., Vijn, R., & Obhi, S.S. (Under Review). Motor preparation during pain observation does not influence event-related Mu/Beta desynchronization. *Cortex*.

Shum, Y.H., **Galang, C.M.**, & Brass, M. (Under 2nd Review). Moderate Manipulation to Somatosensory Feedback Does Not Affect Libet-style Intentional Action. *Psychological Research*.

Preprint

Azevedo, F., Parsons, S., Micheli, L., Strand, J., Rinke, E., ..., **Galang, C.M.**, ... & FORRT (Preprint). Introducing a Framework for Open and Reproducible Research Training (FORRT). <https://osf.io/bnh7p>

In Preparation

Galang, C.M., Cracco, E., Chirkov, V., Obhi, S.S., & Brass, M. (In Prep.). Temporal binding is not affected by the number of controlled agents.

Galang, C.M., Formica, S., Pfister, R., & Brass, M. (In Prep.). Using drift diffusion models to differentiate between automatic and anticipated imitation.

Shum, Y.H., **Galang, C.M.**, & Brass, M. (In Prep.). Stimulating Your Voluntariness: What Can Brain Stimulation Studies Tell Us about Intention and Voluntary Behaviors?

Galang, C.M., Malik, R., Obhi, S.S., & Brass, M. (In Prep.). Intentional Binding Re-examined: Methodological and Theoretical Challenges.

Nisanci, S., **Galang, C.M.**, Formica, S., & Brass, M. (In Prep.). Collective Rule-Breaking and the Sense of Agency.

Saba, S., **Galang, C.M.**, & Brass (In Prep.). Gender and the Perception of Agency.

Marschner, M., **Galang, C.M.**, Knoblich, G., & Brass, M. (In Prep.). Us and Them: Anticipated Imitation Between Groups.

Scholarships & Fellowships

2023-2025 – Marie Skłodowska-Curie Actions (MSCA) Postdoctoral Fellowship

- European Commission
- Value: €173, 847

2018-2020 – Natural Science and Engineering Research Council (NSERC) Doctoral Scholarship

- Government of Canada
- Value: \$42, 000

2017-2018 – Joyce Ontario Graduate Scholarship (OGS) in Science

- Province of Ontario
- Value: \$15 000

2016-2017 – Ontario Graduate Fellowship (OSF)

- Province of Ontario
- Value: \$12 000

2015-2016 – Social Science and Humanities Research Council (SSHRC) Master's Scholarship

- Government of Canada
- Value: \$17 500

Awards & Grants

2018 – Society for the Improvement of Psychological Science (SIPS) Travel Award

2018 – Dept. of Psychology, Neuroscience, and Behaviour Travel Award

2017 – Student Proposals for Intellectual Community and Engaged Scholarship Grant

2016 – OpenCon Travel Scholarship

Invited Talks

Nov. 14th, 2024 – “Sense of Agency in Groups”, Trier University, Germany

Dec. 6th, 2022 – “Rule Breaking and the Sense of Agency”, University of Aberdeen, Scotland

Conference Poster 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.

Teaching Experience

Humboldt-Universität zu Berlin

Sessional Lecturer

1. Winter 2024 – Sense of Agency Graduate Seminar
2. Summer 2024 – Empirical Research Training Graduate Seminar
3. Summer 2023 – Empirical Research Training Graduate Seminar
4. Summer 2022 – Empirical Research Training Graduate Seminar

McMaster University

Sessional Lecturer

1. Winter 2020 – Perspectives on Psychology, Neuroscience and Behaviour

Teaching Assistant

1. Winter 2020 – The Psychology of Aging
2. Fall 2019 – Science Communication
3. Winter 2019 – Social Cognitive Neuroscience
4. Winter 2019 – Perspectives on Psychology, Neuroscience and Behaviour
5. Fall 2018 – Research Methods
6. Winter 2018 – Descriptive Statistics
7. Fall 2017 – Research Methods

8. Winter 2017 – Intergroup relations
9. Fall 2016 – Perspectives on Psychology, Neuroscience and Behaviour
10. Winter 2016 – Integrated Psychology, Neuroscience and Behaviour
11. Fall 2015 – Social Psychology

Service to Profession

Peer Reviewed for Cognition; Biological Psychology; Psychonomic Bulletin & Review; Social Cognitive and Affective Neuroscience; Experimental Brain Research; Social Neuroscience; Acta Psychologica; Scientific Reports; JEP: General.

Extra Training

2020-2021 – McCall MacBain Postdoctoral Fellows Teaching & Leadership Program