

# Carl Michael Galang, PhD

Curriculum Vitae

09/02/2025

## Personal Information

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McMaster University  
McMaster Digital Transformation Research Centre  
DeGroote School of Business  
4350 South Service Road  
Burlington, ON, L7L 5R8, Canada  
Email: [galangc@mcmaster.ca](mailto:galangc@mcmaster.ca) or [galang.michael@gmail.com](mailto:galang.michael@gmail.com)

## Education

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**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

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**Postdoctoral Research Fellow** Sept. 2025 – Current

McMaster University, Canada

McMaster Digital Transformation Research Centre

DeGroote School of Business

Supervisors: Prof. Milena Head & Prof. Khaled Hassanein

**Postdoctoral Research Fellow** Oct. 2021 – Aug. 2025

Humboldt-Universität zu Berlin, Germany

Social Intelligence Lab

Berlin School of Mind and Brain

Supervisor: Prof. Marcel Brass

## Publications

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### Journal Articles

**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*.

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*.

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

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-Construct 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.,** Jenkins, M., Sanders, T., Vijh, R., & Obhi, S.S. (Under 2<sup>nd</sup> Review). Motor preparation during pain observation does not influence event-related Mu/Beta desynchronization. *Cortex*.

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

**Galang, C.M.,** Malik, R., Obhi, S.S., & Brass, M. (Under Review). Intentional Binding Re-examined: Methodological and Theoretical Challenges. *Psychological Review*.

## **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?

Nisanci, S., Formica, S., Brass, M., & **Galang, C.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

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**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

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**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

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**Nov. 14<sup>th</sup>, 2024** – “Sense of Agency in Groups”, Trier University, Germany

**Dec. 6<sup>th</sup>, 2022** – “Rule Breaking and the Sense of Agency”, University of Aberdeen, Scotland

## **Conference Poster Presentations**

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**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**

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### **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**

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**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**

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