

JEREMY HOGEVEEN, PhD

University of New Mexico, Department of Psychology
Assistant Professor

2018-Present

EDUCATION

University of California, Davis (MIND Institute).

2016–2018

Postdoctoral Scholar working with Dr. Marjorie Solomon

Northwestern University (Medical School).

2014-2016

Postdoctoral Scholar working with Dr. Jordan Grafman

Wilfrid Laurier University.

2004-2014

BA, MSc, PhD Cognitive Neuroscience with Dr. Sukhvinder S. Obhi

ADDITIONAL TRAINING

Mind Research Network

2018

fMRI Acquisition and Analysis course led by Drs. Kent Kiehl, Vince Calhoun, & Tor Wager

Harvard-MIT Martinos Center for Biomedical Imaging

2015

Functional connectivity MRI course led by Dr. Robert L. Savoy

University of London, Birkbeck College

2013

Visiting doctoral researcher with Drs. Clare Press & Geoffrey Bird

METHODS

Functional magnetic resonance imaging, transcranial magnetic stimulation, transcranial direct current stimulation, EEG, psychophysiology, eye-tracking

PAPERS (H-Index=12; i10-Index=13)

1. **Hogeveen, J.**, Krug, M. K., Elliott, M. V., & Solomon, M. (2018). Insula-retrosplenial cortex overconnectivity increases internalizing via reduced insight in autism. *Biological Psychiatry*, *84*, 287-294.
+ *Commentary by Vinod Menon*
2. **Hogeveen, J.**, Krug, M. K., Elliott, M. V., Carter, C. S., & Solomon, M. (2018). Proactive control as a double-edged sword in autism spectrum disorder. *Journal of Abnormal Psychology*, *4*, 429-435.
3. Hobson, H. M., **Hogeveen, J.**, Brewer, R., Catmur, C., Gordon, B., Chau, A., Bird, G., & Grafman, J. (2018). Language and alexithymia: Evidence for the role of the inferior frontal gyrus in acquired alexithymia. *Neuropsychologia*, *111*, 229-240.
4. Solomon, M., **Hogeveen, J.**, Libero, L., & Nordahl, C. W. (2017). An altered scaffold for information processing: Cognitive control development in adolescents with autism. *Bio/ Psychiatry Cogn Neurosci Neuroimaging*, *2*, 464-475.
5. **Hogeveen, J.**, Hauner, K. K., Chau, A., Krueger, F., & Grafman, J. (2017). Impaired valuation leads to increased apathy following ventromedial prefrontal cortex damage. *Cerebral Cortex*, *27*, 1401-1408.
6. **Hogeveen, J.**, Salvi, C., & Grafman, J. (2016). 'Emotional intelligence': Lessons from lesions. *Trends in Neurosciences*, *39*, 694-705.
7. **Hogeveen, J.**, Grafman, J., Aboseria, M., David, A., Bikson, M., & Hauner, K. K. (2016). Effects of high-definition and conventional tDCS on response inhibition. *Brain Stimulation*, *9*, 720-729.

8. **Hogeveen, J.**, Bird, G., Chau, A., Krueger, F., & Grafman, J. (2016). Acquired alexithymia following damage to the anterior insula. *Neuropsychologia*, *82*, 142-148.
9. **Hogeveen, J.**, Obhi, S. S., Banissy, M. J., Santiesteban, I., Press, C., Catmur, C., Bird, G. (2015). Task-dependent and distinct roles of the temporoparietal junction and inferior frontal cortex in the control of imitation. *Social Cognitive and Affective Neuroscience*, *10*, 1003-1009.
10. **Hogeveen, J.**, Chartrand, T. L., & Obhi, S. S. (2015). Being mimicked enhances mu-suppression during action observation. *Cerebral Cortex*, *25*, 2076-2082.
11. Bancroft, T. D., **Hogeveen, J.**, Servos, P., & Hockley, W. E. (2014). TMS-induced neural noise in sensory cortex interferes with short-term memory storage in prefrontal cortex. *Frontiers in Computational Neuroscience*, *8*, 23.
12. Obhi, S. S., **Hogeveen, J.**, Giacomin, M., & Jordan, C. (2014) Automatic imitation is reduced in narcissists. *Journal of Experimental Psychology: HPP*, *40*, 920-928.
13. **Hogeveen, J.**, Inzlicht, M., & Obhi, S. S. (2014). Power changes how the brain responds to others. *Journal of Experimental Psychology: General*, *143*, 755-762.
14. Obhi, S. S., & **Hogeveen, J.** (2013). The controlled imitation task: A new paradigm for studying self-other control. *PeerJ*, *1*, e161.
15. **Hogeveen, J.**, & Obhi, S. S. (2013). Automatic imitation is automatic, but less so for narcissists. *Experimental Brain Research*, *224*, 613-621.
16. **Hogeveen, J.**, & Obhi, S. S. (2012). Social interaction enhances motor resonance for observed human actions. *Journal of Neuroscience*, *32*, 5984-5989.
17. Obhi, S. S., **Hogeveen, J.**, & Pascual-Leone, A. (2011). Resonating with others: The effect of self-construal type on motor cortical output. *Journal of Neuroscience*, *31*, 14531-14535.
18. **Hogeveen, J.**, & Obhi, S. S. (2011). Altogether now: Activating interdependent self-construal induces hypermotor resonance. *Cognitive Neuroscience*, *2*, 74-82.
19. Obhi, S. S., & **Hogeveen J.** (2010). Incidental action observation modulates muscle activity. *Experimental Brain Research*, *203*, 427-435.

INVITED OR CHAIRED TALKS

1. **Hogeveen, J.** (Jan, 2018). Department of Psychology, Florida International University. – Invited Talk.
2. **Hogeveen, J.** (Jan, 2018). Department of Psychology, University of New Mexico. – Invited Talk.
3. **Hogeveen, J.** (Jan, 2017). Department of Psychology, University of Louisville. – Invited Talk.
4. **Hogeveen, J.** (July, 2016). American Psychological Association, Denver, CO, USA. – Invited Talk.
5. **Hogeveen, J.** (Dec, 2015). Department of Psychology, Royal Holloway University of London. – Invited Talk.
6. **Hogeveen, J.** (June, 2014). Canadian Society for Brain, Behaviour, and Cognitive Science, Toronto, Ontario, Canada. – Chaired Symposium.

OTHER CONFERENCES

1. **Hogeveen, J.** Krug, M. K., Elliott, M. V., & Solomon, M. (2018). *Saliency network aberrations underlying internalizing psychopathology in autism spectrum disorder*. Society for Affective Science, Los Angeles, CA, USA.

2. Krug, M. K., **Hogeveen, J.**, Coleman, C. C., Elliott, M. V., Gam, S., Carter, C. S., & Solomon, M. (2018). *Dissociating proactive and reactive control in adolescents and young adults with autism spectrum disorder*. Cognitive Neuroscience Society, Boston, MA, USA.
3. **Hogeveen, J.**, Krug, M. K., Elliott, M. V., Carter, C. S., & Solomon, M. (2017). *Proactive cognitive control as a double-edged sword in autism spectrum disorder*. American College of Neuropsychopharmacology, Palm Springs, CA, USA.
4. Solomon, M., Krug, M. K., Coleman, C. C., Elliott, M. V., **Hogeveen, J.**, Niendam, T. A., Ragland, J. D., & Carter, C. S. (2017). *Adolescents and young adults with autism spectrum disorder show differences in dynamics and recruitment of cognitive control networks*. American College of Neuropsychopharmacology, Palm Springs, CA, USA.
5. **Hogeveen, J.**, Ragland, J. D., Lesh, T. A., Niendam, T. A., Carter, C., Krug, M. K., Solomon, M. (2017). *Distinct neural systems associated with item and relational encoding impairments in ASD*. International Meeting for Autism Research, San Francisco, CA, USA.
6. **Hogeveen, J.**, Elliot, M., Nordahl, C. W., Krug, M. K., Solomon, M. (2017). *Inflexible cognitive control processes in children with autism spectrum disorder*. Cognitive Neuroscience Society, San Francisco, CA, USA.
7. Elliott, M. V., Krug, M. K., Coleman, C. C., **Hogeveen, J.**, Farren, J., Farrens, A., Ragland, J. D., Niendam, T. A., Carter, C. S., & Solomon, M. (2017). *Adolescents and young adults with autism spectrum disorder show differences in dynamics and recruitment of cognitive control networks*. Cognitive Neuroscience Society, San Francisco, CA, USA.
8. **Hogeveen, J.**, Krueger, F., & Grafman, J. (2016). *Acquired alexithymia disrupts reward valuation: A human lesion study*. Society for Neuroscience, San Diego, CA, USA. – *Nanosymposium, Reward and Decision Making: Clinical Implications*
9. **Hogeveen, J.**, Bird, G., Chau, A., Krueger, F., & Grafman, J. (2016). *Anterior insula lesions disrupt emotional awareness*. Association for Psychological Science, Chicago, IL, USA.
10. **Hogeveen, J.**, Grafman, J., David, A., Bikson, M., & Hauner, K. K. (2015). *Context-dependent improvement of inhibitory control through transcranial direct current stimulation*. The Psychonomic Society, Chicago, IL, USA.
11. **Hogeveen, J.**, Grafman, J., David, A., Bikson, M., & Hauner, K. K. (2015). *High-definition transcranial direct current stimulation to right inferior frontal cortex improves response inhibition*. Society for Neuroscience, Chicago, IL, USA. – *Nanosymposium, Human Cognition: Cognitive Control and Flexibility*.
12. **Hogeveen, J.**, Hauner, K. K., Chau, A., Krueger, F., & Grafman, J. (2015). *A valuation-based mechanism for increased apathy following ventromedial prefrontal damage*. Society of Neuroeconomics, Miami, FL, USA. – *Poster Spotlight Flash Talk*.
13. **Hogeveen, J.**, Hauner, K. K., Chau, A., Krueger, F., & Grafman, J. (2015). *A valuation-based mechanism for increased apathy following ventromedial prefrontal damage*. Northwestern University Postdoctoral Forum, Evanston, IL, USA.
14. Bancroft, T. D., Hockley, W. E., Servos, P., & **Hogeveen, J.** (2014). *Simulating stimulus-and TMS-induced interference in short-term memory using a model of prefrontal cortex*. Computational Neuroscience, Québec City, Québec, Canada.
15. **Hogeveen, J.**, Obhi, S. S., Banissy, M. J., Press, C., Catmur, C., & Bird, G. (2014). *Stimulating inferior frontal cortex improves the control of imitation*. Cognitive Neuroscience Society, Boston, MA, USA.

16. **Hogeveen, J.**, Obhi, S. S., Banissy, M. J., Press, C., Catmur, C., & Bird, G. (2013). *Stimulating self-other control with transcranial direct current*. Southern Ontario Neuroscience Association, Toronto, Ontario, Canada.
17. **Hogeveen, J.**, Chartrand, T. L., & Obhi, S. S. (2012). *The chameleon in the mirror: Being mimicked modulates motor resonant EEG activity*. Society for Neuroscience, New Orleans, LA, USA.
18. **Hogeveen, J.**, Inzlicht, M., & Obhi, S. S. (2012). *Power modulates resonance with observed actions*. Southern Ontario Neuroscience Association, Toronto, Ontario, Canada.
19. **Hogeveen, J.**, Inzlicht, M., & Obhi, S. S. (2012). *This is your brain on power: Activating high power decreases motor resonance during action observation*. Cognitive Neuroscience Society, Chicago, IL, USA.
20. **Hogeveen, J.**, & Obhi, S. S. (2011). *Social interaction primes biologically specific motor resonance: A TMS study*. Joint Action Meeting, Vienna, Austria.
21. **Hogeveen, J.**, & Obhi, S. S. (2010). *Investigating the relationship between motor resonance and nonconscious mimicry*. Social & Affective Neuroscience Society, Chicago, IL, USA.
22. **Hogeveen, J.**, & Obhi, S. S. (2010). *Motor priming and the chameleon effect*. Canadian Society for Brain, Behaviour, & Cognitive Science, Halifax, NS, Canada.

RESEARCH SUPPORT

P20GM109089 04 **Shuttleworth (PI)** **(2018 – 2019)**
University of New Mexico (UNM) Center for Brain Recovery and Repair

Description: Recently earned a pilot grant (\$30 000) to run an experiment on the role of aberrant reinforcement learning computations in psychiatric sequelae in patients with mild traumatic brain injury (mTBI) as part of a Centers of Behavioral Research Excellence (CoBRE) grant at the UNM Health Sciences Center. The project will generate additional pilot data, as well as refining analyses that will ultimately be applied in the proposed R21 project. The timeline for the project is September 2018 through May 2019, and is expected to lead to a future subaward when the CoBRE goes up for renewal in Fall 2019. **Role:** Pilot Project PI.

R01MH106518 01 **Solomon (PI)** **(2016 – 2018)**
Neurodevelopment of cognitive control in autism: Adolescence to young adulthood

Description: Worked as a postdoctoral fellow on a longitudinal NIMH-funded study examining cognitive control in individuals with autism from adolescence as they transition into adulthood, using a convergent approach incorporating behavioral and fMRI methodologies. My work during this time resulted in three research papers (*Biological Psychiatry (BP)*, *BP: Cognitive Neuroscience and Neuroimaging*, and *Journal of Abnormal Psychology*), and 7 conference presentations (*Society for Affective Science 2018*, *Cognitive Neuroscience Society 2017-2018*, *American College of Neuropsychopharmacology 2017*, *International Meeting for Autism Research 2017*). **Role:** Postdoctoral Fellow

Julius N. Frankel Foundation Grant **Grafman (PI)** **(2014 – 2016)**

Description: Development of a noninvasive brain stimulation protocol (high-definition transcranial direct current stimulation) designed to target and enhance activity in the prefrontal cortex of patients with lesions in this area, to determine if increased neuronal excitability in this region reduces impulsive behaviors. This technique demonstrated preliminary efficacy in a sample of healthy control participants, resulting in two research papers (one in preparation, one published in *Brain Stimulation*), and conference presentations at the *Psychonomic Society 2015*, *Society for Neuroscience 2015*, and an invited presentation at the *American Psychological Association 2016*. **Role:** Postdoctoral Fellow

**Social Science and Humanities Research Council of Canada –
Canada Graduate Scholarship Hogeveen (PI) (2012 – 2014)**

Title: Self and other action processing in social interactions.

Description: Won a prestigious Canada Graduate Scholarship award to continue my graduate research on the neural basis of human social interaction. I published several journal articles on this work, including some in high impact outlets like *Cerebral Cortex* and *The Journal of Neuroscience*. I also presented this work at several international conferences such as the *Society for Neuroscience* and the *Cognitive Neuroscience Society*.

**Social Science and Humanities Research Council of Canada –
Michael Smith Study Supplement Hogeveen (PI) (2013)**

Title: Individual differences in shared representations of action.

Description: Completed a series of complicated noninvasive brain stimulation experiments during a term as a visiting researcher at Birkbeck College, University of London under the joint supervision of Dr. Geoffrey Bird, Dr. Caroline Catmur, and Dr. Clare Press. The data from this experiment appeared in the journal *Social, Cognitive, and Affective Neuroscience*, and was presented as part of a conference symposium that I chaired at *The Canadian Society for Brain, Behaviour, and Cognitive Science* in 2014.

Ontario Graduate Scholarship Hogeveen (PI) (2011-2012)

Description: The Ontario Graduate Scholarship program provided financial assistance at the beginning of my doctoral dissertation, and during this time I conducted research on the neural basis of human social interaction. The output from this early work appeared in two journal articles in *The Journal of Neuroscience* and *Cognitive Neuroscience*.

RECOGNITION

AWARDS

1. MIND Institute, International Meeting for Autism Research (IMFAR) Travel Award
2. Northwestern University Postdoctoral Forum, Best Poster
3. Canadian Psychological Association, Certificate of Academic Excellence
4. Postdoctoral Travel Award, Northwestern University
5. Faculty of Science Gold Medal PhD, Wilfrid Laurier University
6. Travel & Research Award, Wilfrid Laurier University
7. Laurier Graduate Fellowship, Wilfrid Laurier University (\$8000)
8. Faculty of Science Gold Medal MSc, Wilfrid Laurier University
9. Laurier Graduate Fellowship, Wilfrid Laurier University (\$8000)
10. Donald O. Hebb Graduate Student Award Runner-Up, Canadian Society for Brain, Behaviour, and Cognitive Science
11. Certificate of Teaching Excellence, Council of Canadian Departments of Psychology

PUBLIC INTEREST

1. *Power causes brain damage.* The Atlantic.
2. *People with blunted sense of emotion may have harder time reading their body's signals.* Huffington Post.
3. *People with blunted emotions have harder time reading their body's signals.* Stat News.
4. *Empathy is actually a choice.* New York Times.
5. *Powerful and cold-hearted.* New York Times.
6. *New hope for narcissists: New Canadian study suggests there may be a cure for self-centred grandiosity after all.* National Post.
7. *When power goes to your head, it may shut out your heart.* National Public Radio.

PEER REVIEW

EDITING

1. Frontiers in Human Neuroscience – Review Editor
2. Oxford University Press – Edited a book on the cognitive neuroscience of memory

AD HOC REVIEW (alphabetical order)

1. Acta Psychologica
2. Autism Research
3. Biological Psychology
4. Brain Research
5. Cognition
6. Cognitive Affective & Behavioral Neuroscience
7. Cortex
8. Journal of Cognitive Neuroscience
9. Journal of Experimental Psychology: General
10. NeuroImage
11. Neuromodulation
12. Neuropsychologia
13. Neuroscience & Biobehavioral Reviews
14. Psychiatry and Clinical Neuroscience
15. Scientific Reports
16. Social Cognitive and Affective Neuroscience

TEACHING

- | | |
|---|----------|
| 1. Human Learning & Memory (University of New Mexico) | 2018–pr. |
| 2. Memory (University of Guelph) | 2014 |
| 3. Research in Perception (Wilfrid Laurier University, WLU) | 2012 |
| 4. Teaching Assistant, Introduction to ANOVA (WLU) | 2012 |
| 5. Teaching Assistant, Introduction to Linear Models (WLU) | 2011 |
| 6. Teaching Assistant, Introduction to Statistics (WLU) | 2011 |
| 7. Teaching Assistant, Intro to Research Methods (WLU) | 2010 |
| 8. Teaching Assistant, Cognitive Neuroscience of Action (WLU) | 2010 |
| 9. Teaching Assistant, Res in Cognitive Psychology (WLU) | 2009 |

LEADERSHIP

2017 – 2018: Teaching research assistants how to analyse fMRI data.

2016 – 2018: Co-leader in the UC Davis MIND Institute's Acquiring Career, Coping, Executive-function, & Social Skills (ACCESS) program for young adults with autism.

2015 – 2016: Coordinator for the Friday "Research Seminar Series" at the NU Medical School's Rehabilitation Institute of Chicago.

2014-2016: Set up conventional and high definition transcranial direct current stimulation (tDCS) systems in Jordan Grafman's laboratory. Responsibilities included ordering supplies, drafting IRB protocols, carrying out experiments, and training two research assistants to carry out tDCS experiments on their own.

2013-2014: Organized, chaired, and presented a symposium titled “*Sharing and distinguishing interpersonal actions*” at a national Canadian cognitive neuroscience conference (Canadian Society for Brain, Behaviour, & Cognitive Science, 2014).

2010 – 2014: Mentored two Masters students. Helped teach the students how to design and program experiments, how to use transcranial magnetic stimulation (TMS) and record electromyography (EMG), and how to organize, maintain, and analyse data.

2010-2012: Mentored two biomedical engineering research assistants who wanted to gain experience conducting human subjects research and collaborated with them on psychophysiological experiments.

2009-2013: Oversaw the work of seven research assistants during my graduate training.