

Patrick G. Bissett, Ph. D

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Education

Stanford University, Stanford, CA (2014 –)
Postdoctoral Fellow, Psychology Department
PI: Russell A. Poldrack

Vanderbilt University, Nashville, TN (2009 – 2014)
Ph. D in Cognition and Cognitive Neuroscience
Dissertation: Evaluating the Independent Race Model for the Stop Signal Paradigm: Context Independence is Violated at Short Stop Signal Delays
PI: Gordon D. Logan

University of Michigan, Ann Arbor, MI (2004 – 2008)
Bachelor's of Science with Distinction and Highest Honors in Brain, Behavior, and Cognitive Science

University of Oxford, Oxford, UK (2007)
Study abroad program at St. Edmund Hall

Publications

Eisenberg, I. W., **Bissett, P. G.**, Canning, J. R., Dallery, J., Enkavi, A. Z., Whitfield-Gabrieli, S.,...Poldrack, R. A. (2018). Applying novel technologies and methods to inform the ontology of self-regulation. *Behaviour Research and Therapy*, 101, 46-57.

Wylie, S. A., van Wouwe, N. C., Godfrey, S. G., **Bissett, P. G.**, Logan, G. D., Kanoff, K. E.,...van den Wildenberg, W. P. M. (2018). Dopaminergic medication shifts the balance between going and stopping in Parkinson's disease. *Neuropsychologia*, 109, 262-269.

Bissett, P. G., Grant, L. D., & Weissman, D. H. (2017). Resisting distraction and response inhibition trigger similar enhancements in future performance. *Acta Psychologica*, 180, 40-51.

Weissman, D. H., Colter, K. M., Grant, L. D., & **Bissett, P. G.** (2017). Identifying stimuli that cue multiple responses triggers the congruency sequence effect independent of response conflict. *Journal of Experimental Psychology: Human Perception and Performance*, 43, 677-689.

- Shine, J. M., **Bissett, P. G.**, Bell, P. T., Koyejo, O., Balsters, J. H., Gorgolewski, K. J., Moodie, C. A., & Poldrack, R. A. (2016). The dynamics of functional brain networks: Integrated network states during cognitive task performance. *Neuron*, 92, 544-554.
- Georgiades, M. J., Gilat, M., Ehgoetz Martens, K. A., Walton, C. C., **Bissett, P. G.**, Shine, J. M., & Lewis, S. J. (2016). Investigating motor initiation and inhibition deficits in patients with Parkinson's disease and freezing of gait using a virtual reality paradigm. *Neuroscience*, 337, 153-162.
- Sochat, V. V., Eisenberg, I. W., Enkavi, A. Z., Li, J., **Bissett, P. G.**, & Poldrack, R. A. (2016). The experiment factory: Standardizing behavioral experiments. *Frontiers in Psychology*, 7, 1-9.
- Bissett, P. G.**, Logan, G. D., van Wouwe, N. C., Tolleson, C. M., Phibbs, F. T., Claassen, D. O., & Wylie, S. A. (2015). Generalized motor inhibitory deficit in Parkinson's disease patients who freeze. *Journal of Neural Transmission*, 122, 1693-1701.
- Bissett, P. G.**, & Logan, G. D. (2014). Selective Stopping? Maybe not. *Journal of Experimental Psychology: General*, 143, 455-472.
- Bissett, P. G.**, & Logan, G. D. (2013). Stop before you leap: Changing eye and hand movements requires stopping. *Journal of Experimental Psychology: Human Perception and Performance*, 39, 941-946.
- Bissett, P. G.** (2013). The countermanding task revisited: Mimicry of race models. [Commentary on "The countermanding task revisited: Fast stimulus detection is a key determinant of psychophysical performance"]. *The Journal of Neuroscience*, 33, 12150-12151.
- Bissett, P. G.**, & Logan, G. D. (2012). Post-stop-signal adjustments: Inhibition improves subsequent inhibition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 38, 955-966.
- Bissett, P. G.**, & Logan, G. D. (2012). Post-stop-signal slowing: Strategies dominate reflexes and implicit learning. *Journal of Experimental Psychology: Human Perception and Performance*, 38, 746-757.
- Yamaguchi, M., Logan, G. D., & **Bissett, P. G.** (2012). Stopping while going! Response inhibition does not suffer dual-task interference. *Journal of Experimental Psychology: Human Perception and Performance*, 38, 123-134.
- Bissett, P. G.**, & Logan, G. D. (2011). Balancing cognitive demands: Control adjustments in the stop-signal paradigm. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 37, 392-404.

Bissett, P. G., Nee, D. E., & Jonides, J. (2009). Dissociating Interference-Control Processes between Memory and Response. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 35, 1306-1316.

Cooper, S., Iyer, G., Tarquini, M., **Bissett, P.**, (2006). Nocodazole does not synchronize cells: implications for cell-cycle control and whole-culture synchronization. *Cell and Tissue Research*, 324, 237-242.

**Selected
Conference
Presentations**

Bissett, P. G., Shine, J. M., Durnez, J., Li, J., & Poldrack, R. A. Combining stopping and working memory slows response inhibition and relates to network integration. Poster presented at Annual Meeting of the Organization of Human Brain Mapping. Singapore, June 17-21, 2018.

Bissett, P. G., Eisenberg, I. W., & Poldrack, R. A. Reactive, proactive, and selective stopping: What can 500,000 trials tell us about inhibitory control? Poster presented at the Annual Meeting of the Psychonomic Society. Vancouver, Canada, November 9-12, 2017.

Bissett, P. G., Eisenberg, I. W., & Poldrack, R. A. Proactive control improves reactive response inhibition. Talk presented at Second Annual Meeting of Control Processes. Amsterdam, The Netherlands, October 11-13, 2017.

Bissett, P. G., Shine, J. M., Durnez, J., Li, J., Gorgolewski, K. J., Esteban, O., Blair, R., & Poldrack, R. A. Behavioral and neural interactions between working memory and stop-signal inhibition. Poster presented at Annual Meeting of the Organization of Human Brain Mapping. Vancouver, Canada, June 25-29, 2017.

Bissett, P. G., Shine, J. M., Koyejo, O., Gorgolewski, K. J., & Poldrack, R. A. Fluctuation in network topology predict N-back correct and errors as a function of cognitive load. Poster presented at Annual Meeting of the Organization of Human Brain Mapping. Geneva, Switzerland, June 26-30, 2016.

Bissett, P. G., & Poldrack, R. A. Fast inhibition or impulsive inhibition? Towards a common threshold for engaging and inhibiting responses. Poster presented at the Association for Psychological Science Annual Convention. Chicago, Illinois, May 26-29, 2016.

Bissett, P. G., Logan, G. D., & Wylie, S. A. Selective inhibition in young adults, older adults, and Parkinson's Disease. Poster presented at the Annual Meeting of the Society for Neuroscience. San Diego, California, November 9-13, 2013.

Bissett, P. G. Strategies for selective stopping. Talk presented at the Translational Aspects of Stopping Workshop. San Diego, California, November 8, 2013.

Bissett, P. G., & Logan, G. D. Strategies for selective stopping: Challenging the race model. Poster presented at the Annual Meeting of the Psychonomic Society. Minneapolis, Minnesota, November 15-18, 2012.

Bissett, P. G., & Logan, G. D. Post-stop-signal slowing: Strategies dominate reflexes and implicit learning. Poster presented at the Annual Meeting of the Psychonomic Society. Seattle, Washington, November 3-6, 2011.

Bissett, P. G., Nee, D. E., & Jonides, J. Interference mechanisms for response production and memory representations. Poster presented at the Annual Meeting of the Psychonomic Society. Houston, Texas, November 16-19, 2006.

Invited Talks

Selective response inhibition: Basic, clinical, developmental, and neuroscientific implications. University of Texas at Austin. October 7, 2013.

Selective stopping strategies across effectors, age, and Parkinson's Disease. University of California at San Diego. July 24, 2013.

Awards

Vanderbilt University Graduate Student Travel Award, 2011, 2012, 2013

National Science Foundation Graduate Research Fellowship Honorable Mention, 2009

Vanderbilt University Departmental Financial Award in recognition of exemplary academic record, 2009

University of Michigan W. B. Pillsbury Prize for Most Outstanding Honors Thesis, 2008

University of Michigan degree conferred with "Highest Honors" given for the best senior honors thesis in the Psychology Department, 2008

University of Michigan Spike Tanner Memorial Award for Research, 2007

University of Michigan Eli Lilly Research and Travel Award, 2006

National Merit Scholarship Finalist, 2003

Grants

National Institute of Mental Health (R01), 7/1/2018-3/31/2023:
Characterizing cognitive control networks using a precision neuroscience approach.

PI: Russell A. Poldrack, Role: Co-Investigator/Co-Author
\$2,097,193 (awarded on first submission)

Ruth L. Kirschstein National Research Service Award from the National Institute of Drug Abuse (F32), 4/1/2016-3/31/2019:

Elucidate the mechanisms underlying inhibition induced devaluation.

PI: Patrick G. Bissett

\$179,218 (awarded on first submission)

Stanford Center for Cognitive and Neurobiological Imaging (CNI)

Innovations Grant, 2/15/18-8/31/18:

Characterizing cognitive control networks using a precision neuroscience approach

PI: Patrick G. Bissett

\$2,000

Stanford Center for Cognitive and Neurobiological Imaging (CNI)

Innovations Grant, 2/1/17-8/15/17:

Behavioral and neural interactions between working memory and stop-signal inhibition

PI: Patrick G. Bissett

\$2,835

Ad-Hoc Reviewer

- Acta Psychologica
- Behavioural Brain Research
- Cerebral Cortex
- Child Development
- Cognition
- eNeuro
- European Journal of Neuroscience
- Experimental Brain Research
- Human Brain Mapping
- JAMA Psychiatry
- Japanese Psychological Research
- Journal of Experimental Child Psychology
- Journal of Experimental Psychology: General
- Journal of Experimental Psychology: Human Perception and Performance
- Journal of Neurophysiology
- Neurobiology of Aging

- NeuroImage
- Neuropsychologia
- PLOS ONE
- Psychological Research
- Psychological Science
- Psychonomic Bulletin & Review
- Quarterly Journal of Experimental Psychology
- Scientific Reports
- The Journal of Neuroscience

**Teaching
Experience**

Teaching Assistant in Experimental Design. Spring 2012

Teaching Assistant in Introduction to Psychology. Fall 2011

Teaching Assistant in Experimental Design. Spring 2011

Teaching Assistant in Perception. Fall 2010