Stanford

Patrick Bissett

Senior Research Scientist, Psychology

Bio

ACADEMIC APPOINTMENTS

- Senior Research Scientist, Psychology

LINKS

- Personal Website: http://bissettp.github.io

Teaching

STANFORD ADVISEES

Zhenze Zhang

Publications

PUBLICATIONS

- **Selection Biases in Precision Psychiatric Neuroimaging.** *Biological psychiatry*
  Bissett, P. G., Poldrack, R. A.
  2026

- **Functional brain organization is stable within individuals across years.** *bioRxiv : the preprint server for biology*
  Lee, H. J., Dworetsky, A., Porter, A., Fei, S., Nielsen, A. N., Seitzman, B. A., Adeyemo, B., Bissett, P. G., Poldrack, R. A., Cohen, J. R., D'Esposito, M., Neta, M., Dosenbach, et al
  2026

- **Precision Functional Mapping in Obsessive-Compulsive Disorder**
  Vaghi, M., Norgaard, M., Shim, S., Rios, J. H., Bissett, P., Rodriguez, C., Poldrack, R.
  ELSEVIER SCIENCE INC.2026: S179-S180

- **Quality assessment and control of unprocessed anatomical, functional and diffusion MRI of the human brain using MRIQC.** *Nature protocols*
  Hagen, M. P., Provins, C., MacNicol, E., Li, J. K., Gomez, T., Garcia, M., Seeley, S. H., Legarreta, J. H., Norgaard, M., Bissett, P. G., Poldrack, R. A., Rokem, A., Esteban, et al
  2026

- **Arbitrary stimuli are not devalued by stopping action: A registered replication of Wessel et al. (2014).** *Journal of experimental psychology. General*
  Bissett, P. G., Achyutuni, K. G., Li, J. K., Jones, H. M., Shim, S., Rios, J. A., Bennett, L. J., Mitchell, M., Jackson, J., Bar Or, M., Roll, D., Meidan, N., Saliy-Grigoryan, et al
  2025

- **Training With Gordon: Lessons Learned in Two Intersecting Scientific Journeys** *AMERICAN JOURNAL OF PSYCHOLOGY*

Bissett, P. G., Poldrack, R. A.
2025; 138 (2): 105-111

- **Frontostriatal salience network expands as executive networks contract in Obsessive-Compulsive Disorder.** *bioRxiv : the preprint server for biology*
  Vaghi, M. M., Norgaard, M., Shim, S., Rios, J. A., Bissett, P. G., Rodriguez, C. I., Poldrack, R. A.
  2025
- **An image-computable model of speeded decision-making.** *eLife*
  Jaffe, P. I., Santiago-Reyes, G. X., Schafer, R. J., Bissett, P. G., Poldrack, R. A.
  2025; 13
- **An image-computable model of speeded decision-making** *ELIFE*
  Jaffe, P., Santiago-Reyes, G. X., Schafer, R. J., Bissett, P. G., Poldrack, R. A.
  2025; 13
- **Quality assessment and control of unprocessed anatomical, functional, and diffusion MRI of the human brain using MRIQC.** *bioRxiv : the preprint server for biology*
  Hagen, M. P., Provins, C., MacNicol, E., Li, J. K., Gomez, T., Garcia, M., Seeley, S. H., Legarreta, J. H., Norgaard, M., Bissett, P. G., Poldrack, R. A., Rokem, A., Esteban, et al
  2024
- **Cognitive tasks, anatomical MRI, and functional MRI data evaluating the construct of self-regulation.** *Scientific data*
  Bissett, P. G., Eisenberg, I. W., Shim, S., Rios, J. A., Jones, H. M., Hagen, M. P., Enkavi, A. Z., Li, J. K., Mumford, J. A., MacKinnon, D. P., Marsch, L. A., Poldrack, R. A.
  2024; 11 (1): 809
- **The response time paradox in functional magnetic resonance imaging analyses.** *Nature human behaviour*
  Mumford, J. A., Bissett, P. G., Jones, H. M., Shim, S., Rios, J. A., Poldrack, R. A.
  2023
- **Cognitive tasks, anatomical MRI, and functional MRI data evaluating the construct of self-regulation.** *bioRxiv : the preprint server for biology*
  Bissett, P. G., Eisenberg, I. W., Shim, S., Rios, J. A., Jones, H. M., Hagen, M. P., Enkavi, A. Z., Li, J. K., Mumford, J. A., MacKinnon, D. P., Marsch, L. A., Poldrack, R. A.
  2023
- **Modelling human behaviour in cognitive tasks with latent dynamical systems.** *Nature human behaviour*
  Jaffe, P. I., Poldrack, R. A., Schafer, R. J., Bissett, P. G.
  2023
- **A dual-task approach to inform the taxonomy of inhibition-related processes.** *Journal of experimental psychology. Human perception and performance*
  Bissett, P. G., Jones, H. M., Hagen, M. P., Bui, T. T., Li, J. K., Rios, J. A., Mumford, J. A., Shine, J. M., Poldrack, R. A.
  2022
- **Precision Functional Mapping in Obsessive-Compulsive Disorder Using Dense Sampling Scanning**
  Vaghi, M., Shim, S., Rios, J., Bissett, P., Mukunda, P., Rodriguez, C., Poldrack, R.
  SPRINGERNATURE.2022: 303-304
- **Precision Functional Mapping in Obsessive-Compulsive Disorder Using Dense Sampling Scanning**
  Vaghi, M., Shim, S., Rios, J., Bissett, P., Mukunda, P., Rodriguez, C., Poldrack, R.
  SPRINGERNATURE.2022: 303-304
- **Estimating the Time to Do Nothing: Toward Next-Generation Models of Response Inhibition** *CURRENT DIRECTIONS IN PSYCHOLOGICAL SCIENCE*
  Bissett, P. G., Poldrack, R. A.
  2022
- **Predicting brain activation maps for arbitrary tasks with cognitive encoding models.** *NeuroImage*
  Walters, J., King, M., Bissett, P. G., Ivry, R. B., Diedrichsen, J., Poldrack, R. A.
  2022: 119610

- **Relating psychiatric symptoms and self-regulation during the COVID-19 crisis.** *Translational psychiatry*
  Vaghi, M. M., Hagen, M. P., Jones, H. M., Mumford, J. A., Bissett, P. G., Poldrack, R. A.
  2022; 12 (1): 271

- **Momentary Influences on Self-Regulation in Two Populations With Health Risk Behaviors: Adults Who Smoke and Adults Who Are Overweight and Have Binge-Eating Disorder.** *Frontiers in digital health*
  Scherer, E. A., Metcalf, S. A., Whicker, C. L., Bartels, S. M., Grabinski, M., Kim, S. J., Sweeney, M. A., Lemley, S. M., Lavoie, H., Xie, H., Bissett, P. G., Dallery, J., Kiernan, et al
  2022; 4: 798895

- **The cognitive and perceptual correlates of ideological attitudes: a data-driven approach.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
  Zmigrod, L., Eisenberg, I. W., Bissett, P. G., Robbins, T. W., Poldrack, R. A.
  2021; 376 (1822): 20200424

- **Severe violations of independence in response inhibition tasks.** *Science advances*
  Bissett, P. G., Jones, H. M., Poldrack, R. A., Logan, G. D.
  2021; 7 (12)

- **Design issues and solutions for stop-signal data from the Adolescent Brain Cognitive Development [ABCD] study.** *eLife*
  Bissett, P. G., Hagen, M. P., Jones, H. M., Poldrack, R. A.
  2021; 10

- **Dataset decay and the problem of sequential analyses on open datasets.** *eLife*
  Thompson, W. H., Wright, J., Bissett, P. G., Poldrack, R. A.
  2020; 9

- **Correlation Database of 60 Cross-Disciplinary Surveys and Cognitive Tasks Assessing Self-Regulation.** *Journal of personality assessment*
  Mazza, G. L., Smyth, H. L., Bissett, P. G., Canning, J. R., Eisenberg, I. W., Enkavi, A. Z., Gonzalez, O., Kim, S. J., Metcalf, S. A., Muniz, F., Pelham, W. E., Scherer, E. A., Valente, et al
  2020: 1–8

- **Point of View: Open Exploration.** *eLife*
  Thompson, W. H., Wright, J., Bissett, P. G.
  2020; 9

- **Reply to Friedman and Banich: Right measures for the research question.** *Proceedings of the National Academy of Sciences of the United States of America*
  Enkavi, A. Z., Eisenberg, I. W., Bissett, P. G., Mazza, G. L., MacKinnon, D. P., Marsch, L. A., Poldrack, R. A.
  2019

- **Uncovering the structure of self-regulation through data-driven ontology discovery.** *Nature communications*
  Eisenberg, I. W., Bissett, P. G., Zeynep Enkavi, A., Li, J., MacKinnon, D. P., Marsch, L. A., Poldrack, R. A.
  2019; 10 (1): 2319

- **A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task** *ELIFE*
  Verbruggen, F., Aron, A. R., Band, G. P. H., Beste, C., Bissett, P. G., Brockett, A. T., Brown, J. W., Chamberlain, S. R., Chambers, C. D., Colonius, H., Colzato, L. S., Corneil, B. D., Coxon, et al
  2019; 8

- **Large-scale analysis of test-retest reliabilities of self-regulation measures.** *Proceedings of the National Academy of Sciences of the United States of America*
  Enkavi, A. Z., Eisenberg, I. W., Bissett, P. G., Mazza, G. L., MacKinnon, D. P., Marsch, L. A., Poldrack, R. A.
  2019

- **A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task.** *eLife*
  Verbruggen, F. n., Aron, A. R., Band, G. P., Beste, C. n., Bissett, P. G., Brockett, A. T., Brown, J. W., Chamberlain, S. R., Chambers, C. D., Colonius, H. n., Colzato, L. S., Corneil, B. D., Coxon, et al
  2019; 8

- **Applying novel technologies and methods to inform the ontology of self-regulation.** *Behaviour research and therapy*

Eisenberg, I. W., Bissett, P. G., Canning, J. R., Dallery, J., Enkavi, A. Z., Whitfield-Gabrieli, S., Gonzalez, O., Green, A. I., Greene, M. A., Kiernan, M., Kim, S. J., Li, J., Lowe, et al
2018; 101: 46-57

- **Dopaminergic medication shifts the balance between going and stopping in Parkinson's disease** *NEUROPSYCHOLOGIA*
  Wylie, S. A., van Wouwe, N. C., Godfrey, S. G., Bissett, P. G., Logan, G. D., Kanoff, K. E., Claassen, D. O., Neimat, J. S., van den Wildenberg, W. P. M.
  2018; 109: 262–69
- **Resisting distraction and response inhibition trigger similar enhancements of future performance.** *Acta psychologica*
  Bissett, P. G., Grant, L. D., Weissman, D. H.
  2017; 180: 40-51
- **Identifying Stimuli That Cue Multiple Responses Triggers the Congruency Sequence Effect Independent of Response Conflict** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-HUMAN PERCEPTION AND PERFORMANCE*
  Weissman, D. H., Colter, K. M., Grant, L. D., Bissett, P. G.
  2017; 43 (4): 677-689
- **Applying novel technologies and methods to inform the ontology of self-regulation** *Behaviour Research and Therapy*
  Eisenberg, I. W., Bissett, P. G., Enkavi, A. Z., Poldrack, R. A.
  2017: 46–57
- **Investigating motor initiation and inhibition deficits in patients with Parkinson's disease and freezing of gait using a virtual reality paradigm.** *Neuroscience*
  Georgiades, M. J., Gilat, M., Ehgoetz Martens, K. A., Walton, C. C., Bissett, P. G., Shine, J. M., Lewis, S. J.
  2016; 337: 153-162
- **The Dynamics of Functional Brain Networks: Integrated Network States during Cognitive Task Performance.** *Neuron*
  Shine, J. M., Bissett, P. G., Bell, P. T., Koyejo, O., Balsters, J. H., Gorgolewski, K. J., Moodie, C. A., Poldrack, R. A.
  2016; 92 (2): 544-554
- **The Experiment Factory: Standardizing Behavioral Experiments** *FRONTIERS IN PSYCHOLOGY*
  Sochat, V. V., Eisenberg, I. W., Enkavi, A. Z., Li, J., Bissett, P. G., Poldrack, R. A.
  2016; 7
- **Generalized motor inhibitory deficit in Parkinson's disease patients who freeze** *JOURNAL OF NEURAL TRANSMISSION*
  Bissett, P. G., Logan, G. D., van Wouwe, N. C., Tolleson, C. M., Phibbs, F. T., Claassen, D. O., Wylie, S. A.
  2015; 122 (12): 1693-1701
- **Generalized motor inhibitory deficit in Parkinson's disease patients who freeze.** *Journal of neural transmission (Vienna, Austria : 1996)*
  Bissett, P. G., Logan, G. D., van Wouwe, N. C., Tolleson, C. M., Phibbs, F. T., Claassen, D. O., Wylie, S. A.
  2015; 122 (12): 1693-701
- **Selective Stopping? Maybe Not** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL*
  Bissett, P. G., Logan, G. D.
  2014; 143 (1): 455–72
- **Stop Before You Leap: Changing Eye and Hand Movements Requires Stopping** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-HUMAN PERCEPTION AND PERFORMANCE*
  Bissett, P. G., Logan, G. D.
  2013; 39 (4): 941–46
- **The Countermanding Task Revisited: Mimicry of Race Models** *JOURNAL OF NEUROSCIENCE*
  Bissett, P. G.
  2013; 33 (30): 12150-+
- **Post-Stop-Signal Adjustments: Inhibition Improves Subsequent Inhibition** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-LEARNING MEMORY AND COGNITION*
  Bissett, P. G., Logan, G. D.
  2012; 38 (4): 955–66

- **Post-Stop-Signal Slowing: Strategies Dominate Reflexes and Implicit Learning** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-HUMAN PERCEPTION AND PERFORMANCE*
  Bissett, P. G., Logan, G. D.
  2012; 38 (3): 746–57
- **Stopping While Going! Response Inhibition Does Not Suffer Dual-Task Interference** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-HUMAN PERCEPTION AND PERFORMANCE*
  Yamaguchi, M., Logan, G. D., Bissett, P. G.
  2012; 38 (1): 123–34
- **Balancing Cognitive Demands: Control Adjustments in the Stop-Signal Paradigm** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-LEARNING MEMORY AND COGNITION*
  Bissett, P. G., Logan, G. D.
  2011; 37 (2): 392–404
- **Dissociating Interference-Control Processes Between Memory and Response**
  Bissett, P. G., Nee, D., Jonides, J.
  AMER PSYCHOLOGICAL ASSOC.2009: 1306–16
- **Nocodazole does not synchronize cells: implications for cell-cycle control and whole-culture synchronization** *CELL AND TISSUE RESEARCH*
  Cooper, S., Iyer, G., Tarquini, M., Bissett, P.
  2006; 324 (2): 237–42