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Education and training

1985-1989: B.A. (Psychology), Baylor University, Waco, TX
1989-1995: Ph.D. (Psychology), University of Illinois, Urbana/Champaign, IL
1995-1999: Postdoctoral Fellow (Psychology), Stanford University, Stanford, CA

Employment and professional affiliations

2020-present: Associate Director (Stanford Data Science), Stanford University
2017-2020: Professor (by courtesy) (Computer Science), Stanford University
2016-present: Albert Ray Lang Professor (Psychology), Stanford University
2014-present: Professor (Psychology), Stanford University
2013-2014: C. B. Smith, Sr., Nash Phillips, Clyde Copus Centennial Chair (Psychology/Neurobiology), University of Texas
2009-2014: Director (Imaging Research Center), University of Texas
2009-2014: Professor (Psychology/Neurobiology), University of Texas
2008-2009: Professor (Psychology/Psychiatry and Biobehavioral Sciences), UCLA
2006-2008: Associate Professor (Psychology/Psychiatry and Biobehavioral Sciences), UCLA
2002-2006: Assistant Professor (Psychology), UCLA
2001-2002: Member of the Faculty, Harvard Graduate School of Education
1999-2002: Assistant Psychologist (MGH-NMR Center), Massachusetts General Hospital
1999-2002: Assistant Professor (Radiology), Harvard Medical School

Honors and Awards

2018: Fellow, Society of Experimental Psychologists
2018: Visiting Scholar, IMT Lucca
2017: Fellow, Psychonomic Society
2016: Distinguished Scholar, Chinese University of Hong Kong
2012: Innovation Award for Yarkoni et al., 2011 Nature Methods paper, Social and Affective Neuroscience Society
2012: Hilgard Scholar, Stanford University
2010: PROSE Awards for Economics and Excellence in the Social Sciences for Neuroeconomics: Decision Making and the Brain, Association of American Publishers
2010: Visiting Professor, Beijing Normal University
2009: Fellow, Association for Psychological Science
2005: Wiley Young Investigator Award, Organization for Human Brain Mapping
2005: Distinguished Scientific Award for Early Career Contributions to Psychology, American Psychological Association

Editorial Duties and Reviewing

Founding Co-Editor-in-Chief: Frontiers in Brain Imaging Methods (2012-2018)
Associate Editor: Frontiers in Human Neuroscience
Contributing Editor: Psychological Bulletin (2012-2014)
Advisory Council Member: Advances in Methods and Practices in Psychological Science
Handling Editor (ad hoc): Proceedings of the National Academy of Sciences, eLife

Editorial board: Nature Scientific Data (Senior Editorial Board), Annual Review of Psychology, Trends in Cognitive Sciences, Cerebral Cortex, Human Brain Mapping, GigaScience, NBDT (Neurons, Behavior, Data Analysis, and Theory)

Professional societies

Association for Psychological Science, Memory Disorders Research Society, Organization for Human Brain Mapping, Society for Neuroscience

Service

Director, DSI Center for Open and Reproducible Science, 2020-present
Associate Director, Stanford Data Science Institute, 2020-present
Advisory Board Member, XSEDE, 2020-2022
Member (elected), Brain Imaging Data Structure (BIDS) Steering Group, 2019-present
Scientific Committee Member, ICON (International Conference on Cognitive Neuroscience), 2017-2017
Member, IMH Workgroup on Revisions to the RDoC Matrix⁴, 2017-present
Executive Committee Member, NIH Core Neuropsychological Measures for Obesity and Diabetes Project., 2017-2018
Education Chair (elected), Organization for Human Brain Mapping, 2017-2018
Advisory Panel Member, Databrary, 2016-present
Executive Committee Member, Cognitive Computational Neuroscience Conference, 2016-present
Member, Editorial Search Committee for *Advances in Methodologies and Practices in Psychological Science.* , 2016-2016
Co-chair, INCF Congress on Neuroinformatics, 2016-2017
Organizer, Beijing Advanced fMRI Analysis Course, 2015-2015
Member, Behavioral And Social Sciences Workgroup, National Advisory Mental Health Council, 2015-2016
External Advisory Board Member, Center for Reproducible Neuroimaging Computation, University of Massachusetts , 2015-present
Member, Advisory Panel to the Scientific Agenda, Kavli Human Project, 2015-present
External Advisory Board Member, Adolescent Brain Cognitive Development (ABCD) Study, 2015-present
Member, OHBM Committee on Best Practice in Data Analysis, 2014-2016
Program Committee Member, Psychonomic Society, 2014-2015
Data Intensive Science Advisory Group Member, Texas Advanced Computing Center, 2014-present
Program Committee Member, INCF Congress on Neuroinformatics, 2013-2014
Standing member, NIH SPC Study Section , 2012-2018
Steering Committee Member, National Academies Keck Futures Initiative on the Informed Brain in a Digital World, 2012-2013
Chair of External Advisory Panel, Human Connectome Project, 2011-2015
Co-Organizer, INCF Neuroimaging Datasharing and Data Access Workshop, 2011-2011
Selection Committee Member, APA Early Career Award in Behavioral/Cognitive Neuroscience, 2010-2010
Chair (elected), Organization for Human Brain Mapping, 2009-2010
Member, Society for Neuroscience Neuroinformatics Committee, 2008-2010
Co-organizer, UCLA Advanced Neuroimaging Summer School, 2007-2009
Chief Information Officer, Society for Neuroeconomics, 2007-2013
Organizer, OHBM Cognitive Neuroscience Course, 2006-2007
Program Committee Member, Organization for Human Brain Mapping, 2004-2005
Co-organizer, IPAM Summer School on Mathematics in Brain Imaging, 2004-2004
Standing member, National Science Foundation Cognitive Neuroscience Panel, 2003-2005
Executive Committee Member, Cognitive Neuroscience of Category Learning Conference, 2002-2004

Research funding

Active:

Principal Investigator, NSF ([1760950](#)), *Breaking Down Barriers For Reproducible Neuroimaging Data Analyses*, 2018-2021
Principal Investigator, NIDA ([UH3DA041713](#)), *Applying Novel Technologies And Methods To Inform The Ontology Of Self-Regulation*, 2018-2020

Principal Investigator, NIMH ([R24MH117179](#)), *Openneuro: An Open Archive For Analysis And Sharing Of Brain Initiative Data*, 2018-2023

Principal Investigator, NIMH ([R01MH117772](#)), *Characterizing Cognitive Control Networks Using A Precision Neuroscience Approach*, 2018-2023

Subcontract PI (T. Yarkoni, PI), NIMH ([R01MH096906](#)), *Large-Scale Image-Based Meta-Analysis Of Functional Mri Data*, 2012-2023

Subcontract PI (T. Yarkoni, PI), NIMH ([R01MH109682](#)), *Neuroscout: A Cloud-Based Platform For Flexible Re-Analysis Of Naturalistic Fmri Datasets*, 2016-2021

Subcontract PI (S. Makeig, PI), NIMH ([R24MH120037](#)), *Brain Initiative Resource: Development Of A Human Neuroelectromagnetic Data Archive And Tools Resource (Nemar)*, 2019-2024

Subcontract PI (R. Adolphs, PI), NINDS ([U01NS103780](#)), *Causal Mapping Of Emotion Networks With Concurrent Electrical Stimulation And Fmri*, 2017-2020

Co-I (L. Williams, PI), NIMH ([U01MH109985](#)), *Mapping Connectomes For Disordered Emotional States*, 2017-2021

Subcontract PI (S. Ghosh, PI), NIBIB ([R01EB020740](#)), *Nipype: Dataflows For Reproducible Biomedical Research*, 2016-2020

Completed:

Principal Investigator, NIMH ([R24MH114705](#)), *Bids-Derivatives: A Data Standard For Derived Data And Models In The Brain Initiative*, 2017-2020

Principal Investigator, NSF ([1649658](#)), *Computational Infrastructure For Brain Research: Eager: A Computationally Enabled Knowledge Infrastructure For Cognitive Neuroscience*, 2017-2020

Subcontract PI (L. Marsch, PI), NIDA ([UH2DA041713](#)), *Applying Novel Technologies And Methods To Inform The Ontology Of Self-Regulation*, 2015-2018

Subcontract PI (D. Glahn, PI), NIMH ([R01MH106324](#)), *Gene Networks Influencing Psychotic Dysconnectivity In African Americans*, 2014-2019

Co-I (J. Davis, PI), NIDDKD ([R21DK098719](#)), *Sugar Sweetened Beverages: Impact On Reward, Satiety, And Metabolism In Children*, 2014-2017

Principal Investigator, NIDA ([R21DA034316](#)), *The Development Of Neural Responses To Punishment In Adolescence*, 2013-2017

Principal Investigator, NIA ([R01AG041653](#)), *Overcoming The Persistence Of First-Learned Habits To Maintain Behavioral Change*, 2011-2017

Principal Investigator, NSF ([1131441](#)), *An Open Data Repository For Cognitive Neuroscience: The Openfmri Project*, 2011-2014

Principal Investigator, NCATS ([G20RR030871](#)), *Enhancing An Imaging Core At The University Of Texas At Austin*, 2010-2013

Co-I (S. Hanson, PI), James S. McDonnell Foundation ([2009003](#)), *Assessing Brain Interactivity Ii*, 2008-2011

Principal Investigator, NIMH ([R01MH082795](#)), *The Cognitive Atlas: Developing An Interdisciplinary Knowledge Base Through Socia*, 2008-2014

Principal Investigator, NSF ([223843](#)), *The Cognitive Neuroscience Of Category Learning*, 2003-2007

Principal Investigator, James S. McDonnell Foundation ([2005013](#)), *Habit, Automaticity, And Cognitive Control*, 2004-2009

Co-PI, NSF ([433693](#)), *The Neural Basis Of Risky Decision Making*, 2004-2008

Principal Investigator, NINDS ([R21NS043333](#)), *Cholinergic Enhancement Of Human Cortical Plasticity*, 2002-2004

Principal Investigator, NSF ([121950](#)), *Enhancing Human Cortical Plasticity: Visual Psychophysics And Fmri*, 2001-2002

Fellow, NIMH ([F31MH010433](#)), *Relational Representation In Memory And Amnesia*, 1994-1994

Principal Investigator, Laura and John Arnold Foundation, *Stanford Center For Reproducible Neuroscience*, 2015-2018

Collaborator (G. Leng, PI), European Community FP7, *The Neurobiology Of Decision-Making In Eating-Innovative Tools (Nudge-It)*, 2014-2018

Co-PI, Stanford Cyber Initiative, *Behavioral Metrics For Cyber Authentication*, 2015-2017
PI, Office of Naval Research, *Acquisition Of An Mri-Compatible Eeg System*, 2013-2014
PI, Office of Naval Research, *Predicting Individual Differences Using Resting-State Fmri And Network Analysis*, 2010-2014
Co-I, NIH Roadmap ([PL1MH083271](#)), *Consortium For Neuropsychiatric Phenomics*, 2007-2012
Co-I, NIMH ([P50MH077248](#)), *Cidar: Translational Research To Enhance Cognitive Control (Trecc)*, 2006-2011
PI, Janssen Pharmaceuticals, *Cholinergic Enhancement Of Perceptual Learning*, 2002-2003
PI, Alafi Family Foundation, *Multimodal Imaging Of Reading Development And Dyslexia*, 2000-2002
Fellow, McDonnell-Pew Program for Cognitive Neuroscience, *The Neural Basis Of Skill Learning Using Fmri*, 1996-1999

Teaching

Undergraduate: Introduction to Statistics, Judgment and Decision Making, Reading the Brain (Intro Seminar), Introduction to Cognitive Science, Cognitive Neuroscience of Memory, Functional MRI Laboratory

Graduate: Cognitive Neuroscience, Brain Networks, Advanced Statistical Modeling, Functional Neuroimaging, Neuroeconomics, Human Learning and Memory, Computer Methods for Experimental Psychology

Patents

Klingberg T, Hedehus M, Gabrieli JDE, Moseley ME, Poldrack RA (October 8, 2002) *Analysis of cerebral white matter for prognosis and diagnosis of neurological disorders* US Patent # [6,463,315](#)

Publications (Google Scholar H-index = 119)

2021

Bissett PG, Hagen MP, Jones HM, Poldrack RA (2021). Design issues and solutions for stop-signal data from the Adolescent Brain Cognitive Development (ABCD) study. *Elife*, 10. [DOI](#)

Bissett PG, Jones HM, Poldrack RA, Logan GD (2021). Severe violations of independence in response inhibition tasks. *Sci Adv*, 7. [DOI](#)

Fox AS, Holley D, Klink PC et al. (2021). Sharing voxelwise neuroimaging results from rhesus monkeys and other species with Neurovault. *Neuroimage*, 225, 117518. [OA](#) [DOI](#)

Koenis MMG, Durnez J, Rodrigue AL et al. (2021). Associations of cannabis use disorder with cognition, brain structure, and brain function in African Americans. *Hum Brain Mapp*, 42, 1727-1741. [OA](#) [DOI](#)

Manapat PD, Edwards MC, MacKinnon DP, Poldrack RA, Marsch LA (2021). A Psychometric Analysis of the Brief Self-Control Scale. *Assessment*, 28, 395-412. [OA](#) [DOI](#)

Mazza GL, Smyth HL, Bissett PG et al. (2021). Correlation Database of 60 Cross-Disciplinary Surveys and Cognitive Tasks Assessing Self-Regulation. *J Pers Assess*, 103, 238-245. [OA](#) [Data](#) [DOI](#)

Zmigrod L, Eisenberg IW, Bissett PG, Robbins TW, Poldrack RA (2021). The cognitive and perceptual correlates of ideological attitudes: a data-driven approach. *Philos Trans R Soc Lond B Biol Sci*, 376, 20200424. [DOI](#)

2020

Aron AR, Ivry RB, Jeffery KJ, Poldrack RA, Schmidt R, Summerfield C, Urai AE (2020). How Can Neuroscientists Respond to the Climate Emergency? *Neuron*, 106, 17-20. [DOI](#)

Bassett DS, Cullen KE, Eickhoff SB et al. (2020). Reflections on the past two decades of neuroscience. *Nat Rev Neurosci*, 21, 524-534. [DOI](#)

- Bielczyk NZ, Ando A, Badhwar A et al. (2020). Effective Self-Management for Early Career Researchers in the Natural and Life Sciences. *Neuron*, 106, 212-217. [OA](#) [OSF](#) [DOI](#)
- Botvinik-Nezer R, Holzmeister F, Camerer CF et al. (2020). Variability in the analysis of a single neuroimaging dataset by many teams. *Nature*, 582, 84-88. [OA](#) [DOI](#)
- Colenbier N, Van de Steen F, Uddin LQ, Poldrack RA, Calhoun VD, Marinazzo D (2020). Disambiguating the role of blood flow and global signal with partial information decomposition. *Neuroimage*, 213, 116699. [DOI](#)
- Dockès J, Poldrack RA, Primet R, Gözükan H, Yarkoni T, Suchanek F, Thirion B, Varoquaux G (2020). NeuroQuery, comprehensive meta-analysis of human brain mapping. *Elife*, 9. [OA](#) [DOI](#)
- Enkavi AZ, Poldrack RA (2020). Implications of the Lacking Relationship Between Cognitive Task and Self-report Measures for Psychiatry. *Biol Psychiatry Cogn Neurosci Neuroimaging*. [DOI](#)
- Esteban O, Ciric R, Finc K et al. (2020). Analysis of task-based functional MRI data preprocessed with fMRIPrep. *Nat Protoc*, 15, 2186-2202. [OA](#) [DOI](#)
- Lurie DJ, Kessler D, Bassett DS et al. (2020). Questions and controversies in the study of time-varying functional connectivity in resting fMRI. *Netw Neurosci*, 4, 30-69. [OA](#) [OSF](#) [DOI](#)
- Mollon J, Mathias SR, Knowles EEM et al. (2020). Cognitive impairment from early to middle adulthood in patients with affective and nonaffective psychotic disorders. *Psychol Med*, 50, 48-57. [OA](#) [DOI](#)
- Poldrack RA (2020). The physics of representation *Synthese*. [DOI](#)
- Poldrack RA, Huckins G, Varoquaux G (2020). Establishment of Best Practices for Evidence for Prediction: A Review. *JAMA Psychiatry*, 77, 534-540. [OA](#) [DOI](#)
- Poldrack RA, Whitaker K, Kennedy D (2020). Introduction to the special issue on reproducibility in neuroimaging. *Neuroimage*, 218, 116357. [DOI](#)
- Rodrigue AL, Mastrovito D, Esteban O et al. (2020). Searching for Imaging Biomarkers of Psychotic Dysconnectivity. *Biol Psychiatry Cogn Neurosci Neuroimaging*. [DOI](#)
- Thompson WH, Kastrati G, Finc K, Wright J, Shine JM, Poldrack RA (2020). Time-varying nodal measures with temporal community structure: A cautionary note to avoid misinterpretation. *Hum Brain Mapp*, 41, 2347-2356. [OA](#) [DOI](#)
- Thompson WH, Nair R, Oya H, Esteban O, Shine JM, Petkov CI, Poldrack RA, Howard M, Adolphs R (2020). A data resource from concurrent intracranial stimulation and functional MRI of the human brain. *Sci Data*, 7, 258. [OA](#) [DOI](#)
- Thompson WH, Wright J, Bissett PG, Poldrack RA (2020). Dataset decay and the problem of sequential analyses on open datasets. *Elife*, 9. [OA](#) [DOI](#)
- Tozzi L, Staveland B, Holt-Gosselin B et al. (2020). The human connectome project for disordered emotional states: Protocol and rationale for a research domain criteria study of brain connectivity in young adult anxiety and depression. *Neuroimage*, 214, 116715. [DOI](#)

2019

- Aridan N, Malecek NJ, Poldrack RA, Schonberg T (2019). Neural correlates of effort-based valuation with prospective choices. *Neuroimage*, 185, 446-454. [OA](#) [Data](#) [DOI](#)
- Botvinik-Nezer R, Iwanir R, Holzmeister F, Huber J, Johannesson M, Kirchler M, Dreber A, Camerer CF, Poldrack RA, Schonberg T (2019). fMRI data of mixed gambles from the Neuroimaging Analysis Replication and Prediction Study. *Sci Data*, 6, 106. [OA](#) [Data](#) [DOI](#)
- Davies G, Lam M, Harris SE et al. (2019). Author Correction: Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. *Nat Commun*, 10, 2068. [OA](#) [DOI](#)
- Eisenberg IW, Bissett PG, Zeynep Enkavi A, Li J, MacKinnon DP, Marsch LA, Poldrack RA (2019). Uncovering the structure of self-regulation through data-driven ontology discovery. *Nat Commun*, 10, 2319. [OA](#) [Code](#) [Data](#) [OSF](#) [DOI](#)
- Enkavi AZ, Eisenberg IW, Bissett PG, Mazza GL, MacKinnon DP, Marsch LA, Poldrack RA (2019). Reply to Friedman and Banich: Right measures for the research question. *Proc Natl Acad Sci U S A*, 116, 24398-24399. [OA](#) [DOI](#)

- Enkavi AZ, Eisenberg IW, Bissett PG, Mazza GL, MacKinnon DP, Marsch LA, Poldrack RA (2019). Large-scale analysis of test-retest reliabilities of self-regulation measures. *Proc Natl Acad Sci U S A*, 116, 5472-5477. [OA Data](#) [OSF](#) [DOI](#)
- Esteban O, Blair RW, Nielson DM, Varada JC, Marrett S, Thomas AG, Poldrack RA, Gorgolewski KJ (2019). Crowdsourced MRI quality metrics and expert quality annotations for training of humans and machines. *Sci Data*, 6, 30. [OA](#) [DOI](#)
- Esteban O, Markiewicz CJ, Blair RW et al. (2019). fMRIPrep: a robust preprocessing pipeline for functional MRI. *Nat Methods*, 16, 111-116. [OA](#) [DOI](#)
- Kebets V, Holmes AJ, Orban C, Tang S, Li J, Sun N, Kong R, Poldrack RA, Yeo BTT (2019). Somatosensory-Motor Dysconnectivity Spans Multiple Transdiagnostic Dimensions of Psychopathology. *Biol Psychiatry*, 86, 779-791. [DOI](#)
- King M, Hernandez-Castillo CR, Poldrack RA, Ivry RB, Diedrichsen J (2019). Functional boundaries in the human cerebellum revealed by a multi-domain task battery. *Nat Neurosci*, 22, 1371-1378. [Data](#) [DOI](#)
- Lam M, Hill WD, Trampush JW et al. (2019). Pleiotropic Meta-Analysis of Cognition, Education, and Schizophrenia Differentiates Roles of Early Neurodevelopmental and Adult Synaptic Pathways. *Am J Hum Genet*, 105, 334-350. [OA](#) [DOI](#)
- Li M, Han Y, Aburn MJ, Breakspear M, Poldrack RA, Shine JM, Lizer JT (2019). Transitions in information processing dynamics at the whole-brain network level are driven by alterations in neural gain. *PLoS Comput Biol*, 15, e1006957. [OA](#) [DOI](#)
- Poldrack RA (2019). The Costs of Reproducibility. *Neuron*, 101, 11-14. [DOI](#)
- Poldrack RA, Feingold F, Frank MJ et al. (2019). The importance of standards for sharing of computational models and data. *Comput Brain Behav*, 2, 229-232. [OA](#) [DOI](#)
- Poldrack RA, Gorgolewski KJ, Varoquaux G (2019). Computational and Informatic Advances for Reproducible Data Analysis in Neuroimaging *Annual Review of Biomedical Data Science*, 2.0, 119-138. [DOI](#)
- Reid AT, Headley DB, Mill RD et al. (2019). Advancing functional connectivity research from association to causation. *Nat Neurosci*, 22, 1751-1760. [OA](#) [DOI](#)
- Shine JM, Bell PT, Matar E, Poldrack RA, Lewis SJG, Halliday GM, O'Callaghan C (2019). Dopamine depletion alters macroscopic network dynamics in Parkinson's disease. *Brain*, 142, 1024-1034. [OA](#) [DOI](#)
- Shine JM, Breakspear M, Bell PT, Ehgoetz Martens KA, Shine R, Koyejo O, Sporns O, Poldrack RA (2019). Publisher Correction: Human cognition involves the dynamic integration of neural activity and neuromodulatory systems. *Nat Neurosci*, 22, 1036. [DOI](#)
- Shine JM, Breakspear M, Bell PT, Ehgoetz Martens KA, Shine R, Koyejo O, Sporns O, Poldrack RA (2019). Human cognition involves the dynamic integration of neural activity and neuromodulatory systems. *Nat Neurosci*, 22, 289-296. [DOI](#)
- Shine JM, Hearne LJ, Breakspear M, Hwang K, Müller EJ, Sporns O, Poldrack RA, Mattingley JB, Cocchi L (2019). The Low-Dimensional Neural Architecture of Cognitive Complexity Is Related to Activity in Medial Thalamic Nuclei. *Neuron*, 104, 849-855.e3. [DOI](#)
- Smeets PAM, Dagher A, Hare TA, Kullmann S, van der Laan LN, Poldrack RA, Preissl H, Small D, Stice E, Veldhuizen MG (2019). Good practice in food-related neuroimaging. *Am J Clin Nutr*, 109, 491-503. [OA](#) [DOI](#)
- Varoquaux G, Poldrack RA (2019). Predictive models avoid excessive reductionism in cognitive neuroimaging. *Curr Opin Neurobiol*, 55, 1-6. [DOI](#)
- Verbruggen F, Aron AR, Band GP et al. (2019). A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task. *Elife*, 8. [OA](#) [DOI](#)
- Yarkoni T, Markiewicz CJ, de la Vega A et al. (2019). PyBIDS: Python tools for BIDS datasets. *J Open Source Softw*, 4. [OA](#) [DOI](#)
- Zuo XN, Biswal BB, Poldrack RA (2019). Editorial: Reliability and Reproducibility in Functional Connectomics. *Front Neurosci*, 13, 117. [OA](#) [DOI](#)
- Zuo XN, Biswal BB, Poldrack RA (2019). Corrigendum: Editorial: Reliability and Reproducibility in Functional Connectomics. *Front Neurosci*, 13, 374. [OA](#) [DOI](#)

2018

- Bakkour A, Botvinik-Nezer R, Cohen N, Hover AM, Poldrack RA, Schonberg T (2018). Spacing of cue-approach training leads to better maintenance of behavioral change. *PLoS One*, 13, e0201580. [OA](#) [OSF](#) [DOI](#)

- Davies G, Lam M, Harris SE et al. (2018). Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. *Nat Commun*, 9, 2098. [OA DOI](#)
- Eisenberg IW, Bissett PG, Canning JR et al. (2018). Applying novel technologies and methods to inform the ontology of self-regulation. *Behav Res Ther*, 101, 46-57. [OA OSF DOI](#)
- Esteban O, Poldrack RA, Gorgolewski KJ (2018). Improving Out-of-Sample Prediction of Quality of MRIQC. In *Intravascular Imaging and Computer Assisted Stenting and Large-Scale Annotation of Biomedical Data and Expert Label Synthesis*. (p. 190-199). Springer International Publishing.
- Gorgolewski KJ, Nichols T, Kennedy DN, Poline JB, Poldrack RA (2018). Making replication prestigious. *Behav Brain Sci*, 41, e131. [DOI](#)
- Lam M, Trampush JW, Yu J et al. (2018). Multi-Trait Analysis of GWAS and Biological Insights Into Cognition: A Response to Hill (2018). *Twin Res Hum Genet*, 21, 394-397. [OSF DOI](#)
- Mathias SR, Knowles EEM, Barrett J, Beetham T, Leach O, Buccheri S, Aberizk K, Blangero J, Poldrack RA, Glahn DC (2018). Deficits in visual working-memory capacity and general cognition in African Americans with psychosis. *Schizophr Res*, 193, 100-106. [OA DOI](#)
- Naselaris T, Bassett DS, Fletcher AK, Kording K, Kriegeskorte N, Nienborg H, Poldrack RA, Shohamy D, Kay K (2018). Cognitive Computational Neuroscience: A New Conference for an Emerging Discipline. *Trends Cogn Sci*, 22, 365-367. [OA DOI](#)
- Poldrack RA (2018). *The New Mind Readers: What Neuroimaging Can and Cannot Reveal about our Thoughts*. Princeton University Press.
- Poldrack RA (2018). *Statistical Thinking for the 21st Century*. <http://statsthinking21.org>.
- Poldrack RA, Monahan J, Imrey PB, Reyna V, Raichle ME, Faigman D, Buckholtz JW (2018). Predicting Violent Behavior: What Can Neuroscience Add? *Trends Cogn Sci*, 22, 111-123. [OA OSF DOI](#)
- Savage JE, Jansen PR, Stringer S et al. (2018). Genome-wide association meta-analysis in 269,867 individuals identifies new genetic and functional links to intelligence. *Nat Genet*, 50, 912-919. [OA DOI](#)
- Shine JM, Aburn MJ, Breakspear M, Poldrack RA (2018). The modulation of neural gain facilitates a transition between functional segregation and integration in the brain. *Elife*, 7. [OA DOI](#)
- Shine JM, Poldrack RA (2018). Principles of dynamic network reconfiguration across diverse brain states. *Neuroimage*, 180, 396-405. [DOI](#)
- Shine JM, van den Brink RL, Hernaus D, Nieuwenhuis S, Poldrack RA (2018). Catecholaminergic manipulation alters dynamic network topology across cognitive states. *Netw Neurosci*, 2, 381-396. [OA DOI](#)
- Tansey W, Koyejo O, Poldrack RA, Scott JG (2018). False Discovery Rate Smoothing *Journal of the American Statistical Association*, 113, 1156-1171. [DOI](#)
- Varoquaux G, Schwartz Y, Poldrack RA, Gauthier B, Bzdok D, Poline JB, Thirion B (2018). Atlases of cognition with large-scale human brain mapping. *PLoS Comput Biol*, 14, e1006565. [OA DOI](#)
- White C, Poldrack RA (2018). Methods for fMRI analysis. In *The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Fourth Edition (Volume 5)*. Wiley.
- Wimmer GE, Li JK, Gorgolewski KJ, Poldrack RA (2018). Reward Learning over Weeks Versus Minutes Increases the Neural Representation of Value in the Human Brain. *J Neurosci*, 38, 7649-7666. [OA OSF DOI](#)
- 2017**
- Acikalin MY, Gorgolewski KJ, Poldrack RA (2017). A Coordinate-Based Meta-Analysis of Overlaps in Regional Specialization and Functional Connectivity across Subjective Value and Default Mode Networks. *Front Neurosci*, 11, 1. [OA DOI](#)
- Bakkour A, Lewis-Peacock JA, Poldrack RA, Schonberg T (2017). Neural mechanisms of cue-approach training. *Neuroimage*, 151, 92-104. [OA DOI](#)
- Eckert MA, Vaden KI, Maxwell AB, Cute SL, Gebregziabher M, Berninger VW (2017). Common Brain Structure Findings Across Children with Varied Reading Disability Profiles. *Sci Rep*, 7, 6009. [OA DOI](#)

- Esteban O, Birman D, Schaer M, Koyejo OO, Poldrack RA, Gorgolewski KJ (2017). MRIQC: Advancing the automatic prediction of image quality in MRI from unseen sites. *PLoS One*, 12, e0184661. [OA](#) [OSF](#) [DOI](#)
- Gilron R, Rosenblatt J, Koyejo O, Poldrack RA, Mukamel R (2017). What's in a pattern? Examining the type of signal multivariate analysis uncovers at the group level. *Neuroimage*, 146, 113-120. [DOI](#)
- Gorgolewski KJ, Alfaro-Almagro F, Auer T et al. (2017). BIDS apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods. *PLoS Comput Biol*, 13, e1005209. [OA](#) [DOI](#)
- Gorgolewski KJ, Durnez J, Poldrack RA (2017). Preprocessed Consortium for Neuropsychiatric Phenomics dataset. *F1000Res*, 6, 1262. [OA](#) [DOI](#)
- Hodgson K, Poldrack RA, Curran JE et al. (2017). Shared Genetic Factors Influence Head Motion During MRI and Body Mass Index. *Cereb Cortex*, 27, 5539-5546. [OA](#) [DOI](#)
- Khanna R, Ghosh J, Poldrack RA, Koyejo O (2017). A Deflation Method for Structured Probabilistic PCA. *Proceedings of the 2017 SIAM International Conference on Data Mining*, . [DOI](#)
- Kiar G, Gorgolewski KJ, Kleissas D et al. (2017). Science in the cloud (SIC): A use case in MRI connectomics. *Gigascience*, 6, 1-10. [OA](#) [DOI](#)
- Lam M, Trampush JW, Yu J et al. (2017). Large-Scale Cognitive GWAS Meta-Analysis Reveals Tissue-Specific Neural Expression and Potential Nootropic Drug Targets. *Cell Rep*, 21, 2597-2613. [OA](#) [DOI](#)
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Conference Presentations

- Poldrack RA (2020). *The OpenNeuro data repository*. Talk presented to the FABBS Webinar on Data Depositories (virtual). November.
- Poldrack RA (2020). *Best practices for reproducible neuroimaging*. Talk presented at the FLUX Conference (virtual). September.
- Poldrack RA (2020). *What's wrong with neuroimaging research, and how can we make it right?*. Talk presented at the Neurohackademy, Seattle, WA (virtual). July.
- Poldrack RA (2020). *The measurement crisis in cognitive neuroscience*. Talk presented at the Reading Emotions Conference, Reading, UK (virtual). June.
- Poldrack RA (2020). *Reproducibility in neuroimaging: What's the problem?*. Talk presented to the OHBM Australia Chapter (virtual). May.

Poldrack RA (2020). *Towards an open science ecosystem for neuroimaging*. Keynote talk presented to the Neuromatch.io conference (virtual). March.

Poldrack RA (2020). *Toward an ecosystem for open and reproducible science*. Talk presented to the Max Planck Cognition Academy (virtual). January.

Poldrack RA (2020). *Cognitive ontologies: From Top to Bottom*. Talk presented at The Problem of Cognitive Ontology: Implications for Scientific Knowledge, Pittsburgh (virtual). September.

Poldrack RA (2019). *OpenNeuro: Data sharing for the BRAIN Initiative*. Talk presented at the OHBM Open Science SIG, Rome, June.

Poldrack RA (2019). *OpenNeuro: An open archive for BRAIN Initiative neuroimaging data*. Talk presented at the BRAIN Initiative Investigators Meeting, Washington, DC, April.

Poldrack RA (2019). *The importance of standards for data sharing in neuroimaging*. Keynote presented at the Human Connectome Project Investigators Meeting, Bethesda, MD, May.

Poldrack RA (2019). *Grand views and potholes on the road to precision neuroimaging*. Talk presented at the Neuroimaging and Modulation in Obesity and Diabetes Research 10th Anniversary Meeting, Bethesda, MD, April.

Poldrack RA (2019). *What's wrong with neuroimaging research, and how can we make it right*. Talk presented at the Neurohackademy, Seattle, WA, June.

Poldrack RA (2019). *Building around standards: The role of BIDS in neuroimaging data sharing*. Talk presented at the ACNN Annual Meeting, Ann Arbor, MI, September.

Poldrack RA (2019). *Towards an open science ecosystem for neuroimaging*. Talk presented to the Montreal Neurological Institute Open Science Symposium (virtual). March.

Poldrack RA (2018). *Toward a Computational Ontology of Mental Function*. Keynote presented at the Deliberations on Cognitive Ontology Conference, St. Louis, MO, October.

Poldrack RA (2018). *How Data Sharing Succeeded in Neuroimaging*. Keynote presented at the SRCD DEVSEC2018 Meeting, Phoenix, AZ, October.

Poldrack RA (2018). *Towards a robust data organization scheme for neuroimaging: the Brain Imaging Data Structure*. Keynote presented at Neuroinformatics 2018, Montreal, August.

Poldrack RA (2018). *Reproducibility in neuroimaging: What is the problem*. Talk presented at Neurohackademy 2018, Seattle, July.

Poldrack RA (2018). *What is the structure of self-regulation*. Talk presented at the Association for Psychological Science Annual Meeting, San Francisco, May.

Poldrack RA (2018). *From Big Data to Big Knowledge. Analytic and conceptual challenges for developmental neuroimaging*. Talk presented at the FLUX Satellite meeting, Chapel Hill, NC, May.

Poldrack RA (2018). *Creating a reproducible research pipeline*. Talk presented at the BBSRC STARS Course on Advanced Methods for Reproducible Science, Windsor, UK, April.

Poldrack RA (2017). *Improving reproducibility of fMRI studies*. Talk presented at the Society for the Study of Ingestive Behavior, Montreal, July.

Poldrack RA (2017). *Mechanisms of behavioral change*. Talk presented at the Geneva-Princeton Learning Meeting, January.

Poldrack RA (2017). *Improving the reproducibility of computational research: Cyberinfrastructure for cognitive neuroscience*. Distinguished Lecture, National Science Foundation, Directorate for Computer and Information Science and Engineering., March.

Poldrack RA (2017). *Building reproducible analysis workflows*. Talk presented at the BBSRC Workshop on Advanced Methods for Reproducible Science. Windsor, UK, March.

Poldrack RA (2017). *The dynamics of human brain function*. Talk presented at the Neuroscience Workshop Saclay, Paris, June.

Poldrack RA (2017). *Making neuroimaging more reproducible and transparent*. Talk presented at the Annual Meeting of the American Academy of Adolescent and Child Psychiatry, Washington, DC, October.

Poldrack RA (2017). *Making neuroimaging more reproducible and transparent*. Talk presented at the International Conference on Cognitive Neuroscience (ICON), Amsterdam, August.

- Poldrack RA (2017). *Reproducibility in neuroimaging: What's the problem*. Talk presented at NeuroHackWeek 2017, Seattle, September.
- Poldrack RA (2017). *Reproducibility in neuroimaging: Challenges and solutions*. Kavli Workshop Lecture, Society for Neuroeconomics, Toronto, October.
- Poldrack RA (2017). *Computational infrastructure for cognitive neuroscience: The Poldracklab experience*. Talk presented remotely to NeuroComp17, Madison, WI, August.
- Poldrack RA (2016). *Automatic influences on value*. Talk presented at Decision Neuroscience Annual Meeting, Philadelphia, June.
- Poldrack RA (2016). *Using neuroscience to refine the ontology of psychology*. Talk presented at Rethinking the Taxonomy of Psychology, London, Ontario, April.
- Poldrack RA (2016). *Changing choices and preferences through automatic mechanisms*. Talk presented at Association for Psychological Science Annual Meeting, Chicago, May.
- Poldrack RA (2016). *Representing Knowledge in Psychology: Challenges and Perspectives*. Talk presented at Association for Psychological Science Annual Meeting, Chicago, May.
- Poldrack RA (2016). *Inferring mental states from imaging data: OpenfMRI and the Cognitive Atlas*. Talk presented at the Organization for Human Brain Mapping Annual Meeting, Geneva, June.
- Poldrack RA (2016). *The future of fMRI in cognitive neuroscience*. Talk presented at the UCLA Advanced Neuroimaging Summer School. July.
- Poldrack RA (2016). *Improving the reproducibility of neuroimaging research*. Talk presented at Neurohackweek, Seattle, September.
- Poldrack RA (2015). *The future of fMRI in cognitive neuroscience*. Talk presented at the UCLA Advanced Neuroimaging Summer School.
- Poldrack RA (2015). *Cognitive ontologies, data sharing, and reproducibility*. . Talk presented at the Dagstuhl Perspectives Workshop on Digital Scholarship and Open Science in Psychology and the Behavioral Sciences, Dagstuhl, Germany, July.
- Poldrack RA (2015). *Peripheral gene expression and brain function*. Talk presented at the Organization for Human Brain Mapping Annual Meeting, Honolulu, June.
- Poldrack RA (2015). *Decision making and cognitive control: Towards a new synthesis*. Talk presented at the Nutritional Neuroscience Symposium, Utrecht, Netherlands, March.
- Poldrack RA (2014). *Large-scale decoding of neurocognitive organization*. Keynote address presented at the Pattern Recognition in Neuroimaging meeting, Tübingen, Germany, June.
- Poldrack RA (2014). *The Cognitive Atlas Project*. Talk presented at the Annual Meeting of the Association for Psychological Science, San Francisco, May.
- Poldrack, RA (2014). *Toward an ecosystem for task fMRI data sharing: Neurosynth, Neurovault, and OpenfMRI*. Talk presented at the American Academy of Child and Adolescent Psychiatry, San Diego, October.
- Poldrack RA (2014). *Towards a personalized cognitive neuroscience: The MyConnectome Project*. Keynote address presented at the International Conference on Cognitive Neuroscience (ICON), Brisbane, July.
- Poldrack RA (2014). *Using neuroimaging to infer mental states: A guided tour through the minefield*. Kavli Foundation Workshop, Society for Neuroeconomics Annual Meeting, Miami, September.
- Poldrack RA (2013). *Is "efficiency" a useless concept*. Talk presented at the First Flux Congress, Pittsburgh, September.
- Poldrack RA (2013). *Beyond the GLM: Advanced fMRI analysis techniques*. Talk presented at the QBIN Summer School on Basic and Advanced fMRI, August.
- Poldrack RA (2013). *The Cognitive Atlas Project*. Keynote address presented at the Cognitive Ontologies meeting, Manchester, June.
- Poldrack RA (2013). *From neuroimaging to mental structure*. Keynote address presented at the Organization for Human Brain Mapping Annual Meeting, Seattle, June.
- Poldrack RA (2012). *Cognitive Neuroinformatics*. Keynote address presented at Neuroinformatics 2012, Munich, September.

- Poldrack, RA (2012). *The future of fMRI in the cognitive neuroscience of language*. Talk presented at the International Workshop on Brain, Cognition, and Learning, Beijing, June.
- Poldrack, RA (2011). *Learning and changing habits*. Talk presented at the International Workshop on Brain, Cognition, and Learning, Beijing, May.
- Poldrack, RA (2010). *Inference and Imaging*. Talk presented at the Hastings Center Workshop on Interpreting Neuroimages II, Philadelphia, February.
- Miller E, Seppa C, Kittur A, Sabb F, Poldrack RA (2010). *The Cognitive Atlas: employing interaction design processes to facilitate collaborative ontology creation*. Talk presented to the HCLS 2010 Meeting on The Future of the Web for Collaborative Science, Raleigh, NC, April.
- Poldrack, RA (2010). *Toward a semantic infrastructure for cognitive neuroscience: The Cognitive Atlas*. Talk presented at the Cognitive Neuroscience Society Annual Meeting, Montreal, April.
- Poldrack, RA (2009). *Reading mental states from neuroimaging data: From reverse inference to pattern classification*. Talk presented at the UC Irvine Institute for Mathematical Behavioral Sciences workshop on Inference and Imaging, November.
- Poldrack, RA (2009). *Reading mental states from neuroimaging data: From reverse inference to pattern classification*. Keynote lecture presented at Conceptual Issues in fMRI Interpretation: An Interdisciplinary Workshop, Guelph, Ontario, May.
- Poldrack, RA (2009). *What can we predict from fMRI. Lessons for developmental neuroimaging*. Talk presented at the Conference on Methods and Challenges in Developmental Neuroimaging, Amsterdam, May.
- Poldrack, RA (2008). *Beyond Phrenology: Neuroimaging and cognitive ontologies*. Talk presented at the Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia.
- Poldrack, RA (2008). *Neural systems for learning and controlling skills*. Talk presented at the Georgetown CBBC Workshop on The Neurocognition of Language and Memory: Retention, Attrition, and Aging, March.
- Poldrack, RA Fox, CR (2008). *Prospect theory and the brain*. Talk presented at the NYU Neuroeconomics conference, January.
- Poldrack, RA (2007). *Distinguishing category versus response learning using a reversal paradigm*. . Talk presented at the Memory Disorders Research Society Annual Meeting, Cambridge, England, September.
- Poldrack, RA (2007). *What can (and can't) fMRI tell us about the brain*. Talk presented at the California Science and the Law Institute Conference on Neurobiology and the Courts. Riverside, CA.
- Poldrack, RA (2007). *Memory systems and category learning*. Talk presented at the European Conference on Visual Perception, Arezzo, Italy, August.
- Poldrack, RA (2006). *Skill acquisition, multiple memory systems, and cognitive control*. Talk presented at the Rodin Remediation Academy Annual Meeting, Georgetown University, October.
- Poldrack, RA (2006). *Learning-related changes during skill learning: Evidence for memory system interactions*. Talk presented at the at the Marburg Conference on Neuroimaging and Theories of Memory, Marburg, Germany, July.
- Poldrack RA (2006). *Imaging skill learning using fMRI: Insights and challenges*. Talk presented at the John Merck Fund Summer Institute on the Biology of Developmental Disabilities, Princeton, June.
- Poldrack, RA (2006). *Balancing risk and reward in decision making: An fmri study of the Balloon Analog Risk Task*. Talk presented at the Affect, Motivation, and Decision Making Conference, Ein Boqeq, Israel.
- Poldrack, RA (2005). *Methodological and conceptual challenges for developmental fMRI*. Talk presented at the Amsterdam Conference on Developmental Cognitive Neuroscience, Amsterdam.
- Poldrack, RA (2005). *The development of phonological awareness*. Talk presented at the Amsterdam Conference on Developmental Cognitive Neuroscience, Amsterdam.
- Poldrack, R A (2005). *The organization of cognitive functions in the left inferior prefrontal cortex*. Talk presented at the Cognitive Neuroscience Society Annual Meeting, New York.
- Poldrack, R A (2003). *Neural systems for rapid naming and phonological awareness*. Talk presented at the International Dyslexia Association annual meeting, San Diego.
- Poldrack, R A (2003). *Interactive memory systems in humans*. Talk presented at the SFN Pre-Symposium on Interactive Memory Systems, New Orleans.

- Poldrack, R A (2002). *The role of the basal ganglia in category learning*. Talk presented at the First Cognitive Neuroscience of Category Learning Conference, New York.
- Poldrack, R A (2002). *Functional imaging of classification learning*. Talk presented at the NIPS Workshop on Foundations and Modeling in Neuroimaging, Whistler, BC.
- Poldrack, R A (2002). *The neural basis of skill learning*. Talk presented at the Memory Disorders Research Society Annual Meeting, San Francisco.
- Poldrack, R A (2001). *Reading and the brain: New directions for diagnosis and treatment*. Talk presented at the 17th Annual Learning Differences Conference, Cambridge, MA.
- Poldrack, R A (2001). *The neural basis of reading and dyslexia: Evidence from magnetic resonance imaging*. Talk presented at the fourth Annual Japanese-American Frontiers in Science Symposium, Tokyo, Japan.
- Poldrack, R A (2001). *Imaging of perceptual and cognitive skill learning*. Talk presented at the Third Annual International Conference on Memory, Valencia, Spain.
- Poldrack, R A (2000). *fMRI studies of striatal and medial temporal lobe activation during category learning*. Talk presented at the Memory Disorders Research Society Annual Meeting, Toronto.
- Poldrack, R A (2000). *A neural basis for reading skill: Evidence from microstructural brain imaging*. Talk presented at the National Dyslexia Research Foundation Annual Conference, Elounda, Greece.
- Poldrack, R A (2000). *Brain Structure and Function: The Relation to Reading*. Talk presented at the BrainConnection.com Brain Research and Learning Conference, San Francisco.
- Poldrack, R A (1998). *Multiple functional roles of the left inferior prefrontal cortex: Evidence from neuroimaging*. Talk presented at the Academy of Aphasia Annual Meeting, November 1998, Santa Fe, NM.

Invited addresses and colloquia (* - talks given virtually)

- 2020: University of Colorado, Boulder*, University of Virginia, Biomedical Data Science Program*, Florida International University*, University Medical Center, Hamburg, Germany*, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*, UC Davis*
- 2019: UCLA, IMT Lucca (Italy), Tel Aviv University, Ecole Normale Supérieure (Paris)*, Johns Hopkins University (Biostatistics)*, NIMH Machine Learning Group*, Johns Hopkins University (ECE)*
- 2018: Penn State University, Icahn School of Medicine at Mt. Sinai, University of Wisconsin, University of Miami.
- 2017: Caltech, University of Pennsylvania, University of Maryland, Ghent University, Harvard University, National University, Singapore
- 2016: Wellcome Trust Center for Neuroscience, University College, London, MRC Cognition and Brain Unit, Cambridge, Duke University, Dartmouth University, Rutgers-Newark
- 2015: Tel Aviv University, University Medical Center, Utrecht, Netherlands, Montreal Neurological Institute, Cornell University
- 2014: Laureate Institute, Tulsa, OK, Yale University, Michigan State University
- 2013: Columbia University, UT San Antonio, Rotman Research Institute, Toronto, University of Michigan, UCLA, NIMH, NIDA, Carnegie-Mellon University, University of Oregon, Mt. Sinai School of Medicine, Washington University, St. Louis
- 2012: University of Texas at Dallas, Ohio State University, Stanford University, Tokyo Institute of Technology
- 2011: University College London, Cambridge University, Oxford University, Georgia Tech University, University of Georgia, Brown University, Humboldt University (Berlin), National Taiwan University (Taipei).
- 2010: Beijing Normal University, Duke-NUS School of Medicine, Singapore, Princeton University, UC Davis, University of Maryland, Auburn University, Texas A&M University
- 2009: University of Pennsylvania, UC San Diego, University of Texas at Austin, Baylor College of Medicine
- 2008: University of Vermont, SUNY Stony Brook, Vanderbilt University, University of Illinois at Chicago, University of Texas at Austin, University of Missouri-Columbia, Washington University-St. Louis, Cal Tech, Neurospin (Orsay, France), Oxford University, University College London

2007: Duke University, New York University, University of Texas, MIT, University College London

2006: Salk Institute, Johns Hopkins University, Ben Gurion University (Beer Sheva, Israel)

2005: University of Arizona, Medical College of Wisconsin, Washington University-St. Louis, Karolinska Institute, Lund University (Sweden), Danish Technical University

2004: Rotman Research Institute, University of Toronto, University of California, San Diego, University of Colorado, Boulder, Colorado State University, University of Illinois at Urbana-Champaign

2003: NIMH, Clinical Brain Disorders Branch, Max Planck Institute for Cognitive Neuroscience, Leipzig, Germany, University of California at Irvine, Center for Neurobiology of Learning and Memory,

2002: Learning and the Brain conference, Cambridge, MA, Los Alamos National Laboratory, Center for Nonlinear Studies

2001: Institute for Cognitive Neuroscience, London, Wellcome Department of Cognitive Neurology, London

2000: University of Connecticut, MIT, Boston University, Boston VA Medical Center

1999: Center for Psychological Studies, Berkeley, CA , Harvard University

1997: University of California at Berkeley

1996: University of California at Santa Cruz

1994: Rice University