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Education

1985-1989: BA in psychology, Baylor University, Waco, TX
1989-1991: MA in cognitive psychology, University of Illinois, Urbana, IL
1991-1995: PhD in cognitive psychology, University of Illinois, Urbana, IL

Employment and professional affiliations

2017-: Professor (by courtesy), Department of Computer Science, Stanford University
2016-: Albert Ray Lang Professor, Department of Psychology, Stanford University
2014-2016: Professor, Department of Psychology, Stanford University
2014-: Affiliate, Stanford Neuroscience Institute
2014-: Affiliate, Stanford Biomedical Informatics Training Program
2013-2014: C. B. Smith, Sr., Nash Phillips, Clyde Copus Centennial Chair, University of Texas at Austin
2009-2014: Professor of Psychology and Neurobiology, University of Texas at Austin
2009-2014: Director, Imaging Research Center, University of Texas at Austin
2008-2009: Professor of Psychology and Psychiatry & Biobehavioral Sciences, UCLA
2006-2009: Wendell Jeffrey and Bernice Wenzel Term Chair in Behavioral Neuroscience
2006-2008: Associate Professor of Psychology and Psychiatry & Biobehavioral Sciences, UCLA
2003-2009: Member, UCLA Interdepartmental Neuroscience Program
2003-2009: Fellow, UC Irvine Center for the Neurobiology of Learning and Memory
2002-2009: Member, UCLA Brain Research Institute
2002-2006: Assistant Professor of Psychology, UCLA
1999-2002: Assistant Professor of Radiology, Harvard Medical School
1999-2002: Assistant Psychologist, MGH-NMR Center, Massachusetts General Hospital
2001-2002: Member, Faculty of the Harvard Graduate School of Education
1996: Lecturer, Stanford University
1995-1999: Postdoctoral Fellow, Department of Psychology, Stanford University

Honors and Awards

2016: Distinguished Scholar, Chinese University of Hong Kong
2012: Hilgard Scholar, Stanford University
2012: Social and Affective Neuroscience Society Innovation Award for Yarkoni et al., 2011 *Nature Methods* paper
2010: Visiting Professor, Beijing Normal University, China
2010: Association of American Publishers PROSE Awards for Economics and Excellence in the Social Sciences for *Neuroeconomics: Decision Making and the Brain*
2009: Fellow, Association for Psychological Science
2005: APA Distinguished Scientific Award for Early Career Contributions to Psychology
2005: Wiley Young Investigator Award, Organization for Human Brain Mapping
2004: Brian P. Copenhaver Award for Innovation in Teaching with Technology, UCLA

Editorial Duties and Reviewing

Founding Editor-in-Chief: Frontiers in Brain Imaging Methods

Associate Editor: Frontiers in Human Neuroscience

Contributing Editor: Psychological Bulletin (2012-2014)

Handling Editor (ad hoc): Proceedings of the National Academy of Sciences, eLife

Editorial boards: Nature Scientific Data, Trends in Cognitive Sciences, Cerebral Cortex, Human Brain Mapping, GigaScience, SCAN (Social, Cognitive, and Affective Neuroscience) (2006-2016), Cognitive Science (2008-2014), Neuroimage (2005-2008)

Ad hoc reviewer: Nature, Science, Brain, Proceedings of the National Academy of Sciences (USA), Nature Neuroscience, Neuron, Neuroimage, Journal of Neuroscience, Journal of Cognitive Neuroscience, Cerebral Cortex, Human Brain Mapping, Cognitive, Affective, & Behavioral Neuroscience, Journal of Experimental Psychology: Learning, Memory, & Cognition, Journal of Memory and Language, Learning & Memory, Cognitive Brain Research, Experimental Brain Research, Cognitive Science, Perception, Neurobiology of Aging, Neuroscience Letters, Journal of Neuroscience Methods, Memory & Cognition, Trends in Cognitive Science, Behavioral and Brain Sciences

Abstract Reviewer: NIPS, PRNI, RLDM, Human Brain Mapping

Grant review panelist: NIH SPC Study Section member (2012-present), National Science Foundation Cognitive Neuroscience Panel (2003-2005).

Chair: NIH Special Emphasis Panel ZNS1 SRB-R, 2006

Ad hoc grant reviewer: NIMH, NSF, Wellcome Foundation (UK), Macarthur Foundation, Social Sciences and Humanities Research Council of Canada, Israeli-US Science Foundation, UCLA Stein-Oppenheimer Grant Program, Hospital for Sick Children Foundation (Canada) Grant Program, Cure Autism Now Foundation Grant Program, Chinese University of Hong Kong, Danish National Research Foundation

Professional Societies

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

Executive/organizational duties

Co-chair, INCF Congress on Neuroinformatics, 2016-2017

Scientific Committee Member, ICON (International Conference on Cognitive Neuroscience), 2017

Steering Committee Member, Cognitive Computational Neuroscience Conference, 2016-2017

Education Chair-Elect, Organization for Human Brain Mapping, 2016-present

Member, Editorial Search Committee for *Advances in Methodologies and Practices in Psychological Science*.

External Advisory Board Member, Center for Reproducible Neuroimaging Computation, University of Massachusetts

Member, Databrary Advisory Panel, 2016-present

External Advisory Board Member, Adolescent Brain Cognitive Development (ABCD) Study, 2015-present

Member, Behavioral And Social Sciences Workgroup, National Advisory Mental Health Council, 2015-present

Member, Advisory Panel to the Scientific Agenda, Kavli Human Project, 2015-Present

Organizer, Beijing Advanced fMRI Analysis Course, 2015

Chair of External Advisory Panel, Human Connectome Project, 2011-2015

Member, OHBM Committee on Best Practice in Data Analysis, 2014-2016

Member, TACC Stampede Data Intensive Science Advisory Group, 2014-present

Program Committee Member, Psychonomic Society, 2014-present

Program Committee Member, INCF Congress on Neuroinformatics, 2013-2014
Steering Committee Member, National Academies Keck Futures Initiative on the Informed Brain in a Digital World, 2012-2013
Co-Organizer, INCF Neuroimaging Datasharing and Data Access Workshop, 2011
Selection Committee member, APA Early Career Award in Behavioral/Cognitive Neuroscience, 2010
Chair, Organization for Human Brain Mapping, 2009-2010
Chief Information Officer, Society for Neuroeconomics, 2007-2013
Organizer, UCLA Advanced Neuroimaging Summer School, 2007-2009
Co-Organizer, IPAM Summer School on Mathematics in Brain Imaging, 2004, 2008
Member of Society for Neuroscience Neuroinformatics Committee, 2008-2010
Organizer, OHBM Cognitive Neuroscience Course, 2006-2007
Program Committee, Organization for Human Brain Mapping 2004-2005
Session Chair, Society for Neuroscience Annual Meeting (2001, 2002, 2004)
Session Chair, Human Brain Mapping Annual Meeting (2003)
Executive Committee, Cognitive Neuroscience of Category Learning Conference, 2002-2004

Grants and contracts

Active:

Principal Investigator, NSF, “Computational Infrastructure for Brain Research: EAGER: A Computationally Enabled Knowledge Infrastructure for Cognitive Neuroscience.” 2017-2019.
Principal Investigator (MPI, Stanford component), NIH Common Fund UH2, “Applying novel technologies and methods to inform the ontology of self-regulation”, 2015-2020.
Principal Investigator, Laura and John Arnold Foundation, “Stanford Center for Reproducible Neuroscience”, 2015-2018.
Co-investigator (S. Ghosh, PI)/subcontract PI, NIBIB, “NiPype: Dataflows for Reproducible Biomedical Research”, 2016-2020.
Co-Investigator (D. Glahn, PI)/subcontract PI, NIMH, “Gene networks influencing psychotic dysconnectivity in African Americans”, 2014-2019.
Co-Investigator, Stanford Cyber Initiative, “Behavioral metrics for cyber authentication”, 2015-2017.
Principal Investigator, NIDA R21, “The development of neural responses to punishment in adolescence”, 2013-2016.
Collaborator (G. Leng, PI), EC FP7 Consortium, “The Neurobiology of Decision-Making in Eating - Innovative Tools (NUDGE-IT)”, 2014-2018.

Completed:

Principal Investigator, ONR DURIP, “Acquisition of an MRI-compatible EEG system”, 2013-2014.
Co-investigator (T. Yarkoni, PI), NIMH R01, “Large-scale automated synthesis of human functional neuroimaging data”, 2012-2016.
Principal Investigator, NIA R01, “Overcoming the persistence of first-learned habits to maintain behavioral change”, 2011-2015.
Principal Investigator, NSF, “An open data repository for cognitive neuroscience: The OpenfMRI Project”, 2011-2014.
Co-investigator (S. Hanson/C. Glymour, PIs), James S. McDonnell Foundation, Collaborative Activity Award, “Assessing Brain Interactivity: Model Specification, Causality and Dynamics“, 2006-2014.
Principal Investigator, NIMH R01, “The Cognitive Atlas”, 2008-2014.

Principal Investigator, Office of Naval Research, “Predicting Individual Differences Using Resting-State fMRI and Network Analysis”, 2010-2014.

Principal Investigator, NCRR G20, “Enhancing an Imaging Core at the University of Texas at Austin”, 2010-2012.

Co-investigator (R. Bilder, PI), NIH Roadmap/NCRR, “Consortium for Neuropsychiatric Phenomics”, 2007-2012.

Principal Investigator, James S. McDonnell Foundation, 21st Century Science Award, “Habit, automaticity, and cognitive control”, 2005-2010.

Project PI/Core co-PI (J. McCracken, Center PI), NIMH, “CIDAR: Translational Research to Enhance Cognitive Control (TRECC)”, 2006-2011.

Principal Investigator, Office of Naval Research, “Predictive analyses of training-related plasticity using fMRI and pattern classification techniques”, 2006-2009.

Co-investigator (E. London, PI), NIDA, “Neural Systems, Inhibitory Control, and Methamphetamine Dependence”, 2005-2009.

Co-investigator (E. London, PI), NIDA, “Methamphetamine Abuse, Inhibitory Control: Implications for Treatment”, 2006-2009.

Co-Principal Investigator (with Craig Fox), National Science Foundation, Collaborative Research Grant, “The neural basis of risky decision making”, 2004-2007.

Principal Investigator, High-Q Foundation, Research Contract, “Longitudinal assessment of frontostriatal activation in patients with presymptomatic Huntington’s disease”, 2006-2008.

Co-investigator (R. Bilder, PI), NIH Roadmap/NCRR, “Cognitive phenotyping for neuropsychiatric therapeutics”, 2004-2007.

Co-investigator (R. Asarnow, PI), NIHM R24, “Cortico-striatal dysfunction and vulnerability to schizophrenia”, 2005-2008.

Principal Investigator, Whitehall Foundation, Research Grant, “Interactive memory systems in the human brain”, 2003-2006.

Co-Principal Investigator (with Mark Gluck), National Science Foundation, Collaborative Research Grant, “The cognitive neuroscience of category learning”, 2003-2006.

Principal Investigator, National Institute of Neurological Disease and Stroke, Exploratory/Development Grant (R21 NS43333), “Cholinergic Enhancement of of Human Cortical Plasticity”, 2002-2004.

Principal Investigator, Janssen Research Foundation, Research Grant, “Cholinergic enhancement of perceptual learning”, 2002-2003.

Co-investigator, J.S. McDonnell Foundation, Collaborative Activity Award (M. Gluck, PI), “Interdisciplinary Consortium on the Cognitive Neuroscience of Category Learning”, 2002-2005.

Supervisor, Canadian Institute for Health Research, Postdoctoral Fellowship (Laurie Cestnick, Fellow), “Reading and fMRI”, 2001-2002.

Principal Investigator, National Science Foundation, Cognitive Neuroscience Pilot Grant, “Enhancing human cortical plasticity: Visual psychophysics and fMRI”, 2001-2002.

Principal Investigator, Alafi Family Foundation Grant, “Multimodal imaging of reading development and dyslexia”, 2000-2002.

Principal Investigator, International Dyslexia Association, “Magnetic resonance imaging of cross-modal processing in dyslexia”, 2000-2001.

Supervisor, McDonnell-Pew Program for Cognitive Neuroscience, Individual Grant (Rajeev Raizada, Fellow), “Cross-modal processing and its relations to dyslexia: Psychophysics, fMRI, and neurophysiology”, 2000-2003.

Fellow, McDonnell-Pew Program for Cognitive Neuroscience, Individual Grant, “The Neural Basis of Skill Learning using fMRI”, 1996-1999.

Fellow, National Institute of Mental Health, National Research Service Award (MH10433), “Relational Representation in Amnesia”, 1993 - 1995.

Teaching

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

Shared data sets

- OpenfMRI ds000001 Balloon Analog Risk-taking Task.
- OpenfMRI ds000002. Classification learning.
- OpenfMRI ds000003. Rhyme judgment.
- OpenfMRI ds000005. Mixed-gambles task .
- OpenfMRI ds000006. Living-nonliving decision with plain or mirror-reversed text.
- OpenfMRI ds000007. Stop-signal task with spoken and manual responses.
- OpenfMRI ds000008. Stop-signal task with unconditional and conditional stopping.
- OpenfMRI ds000009. The generality of self-control.
- OpenfMRI ds000017. Classification learning and stop-signal (1 year test-retest).
- OpenfMRI ds000030. UCLA Consortium for Neuropsychiatric Phenomics LA5c Study.
- OpenfMRI ds000031. Myconnectome.
- OpenfMRI ds000051. Cross-language repetition priming.
- OpenfMRI ds000052. Classification learning and reversal.
- OpenfMRI ds000053. Training of loss aversion modulates neural sensitivity toward potential gains.

Patents

Klingberg, T., Hedehus, M., Gabrieli, J. D. E., Moseley, M.E., & Poldrack, R. A. (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 = 93)

Preprints

Asteris M, Kyriallidis A, Koyejo O, Poldrack RA (2016). A simple and provable algorithm for sparse diagonal CCA. *arXiv:1605.08961* [stat.ML].

Durnez J, Blair R, Poldrack RA (2017). Neurodesign: Optimal experimental designs for task fMRI. *bioRxiv* 119594; doi: <https://doi.org/10.1101/119594>

Durnez J, Degryse J, Moerkerke B, Seurinck R, Sochat V, Poldrack RA, Nichols TE (2017). Power and sample size calculations for fMRI studies based on the prevalence of active peaks. *bioRxiv* 049429; doi: <https://doi.org/10.1101/049429>

Esteban O, Birman D, Schaer M, Koyejo O, Poldrack, RA Gorgolewski KJ (2017). MRIQC: Predicting Quality in Manual MRI Assessment Protocols Using No-Reference Image Quality Measures. *bioRxiv* 111294; doi: <https://doi.org/10.1101/111294>

Khanna R, Ghosh J, Poldrack RA, Koyejo O (2016). Information Projection and Approximate Inference for Structured Sparse Variables. *arXiv:1607.03204* [stat.ML]

Rubin TN, Koyejo O, Gorgolewski KJ, Jones MN, Poldrack RA, Yarkoni T (2016). Decoding brain activity using a large-scale probabilistic functional-anatomical atlas of human cognition. *bioRxiv* 059618; doi: <http://dx.doi.org/10.1101/059618>

In press

White C, Poldrack RA (in press). fMRI. To appear in *The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Fourth Edition*.

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. *Frontiers in Decision Neuroscience*.

Gorgolewski KJ, Alfaro-Almagro F, Auer T, Bellec P, Capota M, Chakravarty MM, Churchill NW, Cohen AL, Craddock RC, Devenyi GA, Eklund A, Esteban O, Flandin G, Ghosh SS, Guntupalli JS, Jenkinson M, Keshavan A, Kiar G, Liem F, Raamana PR, Raffelt D, Steele CJ, Quirion PO, Smith RE, Strother SC, Varoquaux G, Yarkoni T, Wang Y, Poldrack RA (2017). BIDS Apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods. *PLOS Computational Biology*.

Khanna R, Ghosh J, Poldrack RA, and Koyejo O (2017). A Deflation Method for Structured Probabilistic PCA. *Proceedings of the 2017 SIAM International Conference on Data Mining*.

Kiar G, Gorgolewski KJ, Kleissas D, Roncal WG, Litt B, Wandell B, Poldrack RA, Wiener M, Vogelstein RJ, Burns R, Vogelstein JT. (2017). Science In the Cloud (SIC): A use case in MRI Connectomics. *Gigascience*. doi: 10.1093/gigascience/gix013

Mathias SR, Knowles EEM, Barrett J, Leach O, Buccheri S, Beetham T, Blangero J, Poldrack RA, Glahn DC (2016). The Processing-Speed Impairment in Psychosis Is More Than Just Accelerated Aging. *Schizophrenia Bulletin*.

Nichols T, Das S, Eickhoff SB, Evans AC, Glatard T, Hanke M, Kriegeskorte N, Milham MP, Poldrack RA, Poline J-B, Proal E, Thirion B, Van Essen DC, White T, Yeo BTT (2017). Best Practices in Data Analysis and Sharing in Neuroimaging using MRI. *Nature Neuroscience*.

Poldrack RA (2017). Neuroscience: The risks of reading the brain. *Nature*. (invited book review).

Poldrack RA, Baker CI, Durnez J, Gorgolewski KJ, Matthews PM, Munafò M, Nichols TE, Poline JB, Vul E, Yarkoni T (2017). Scanning the Horizon: Towards transparent and reproducible neuroimaging research *Nature Reviews Neuroscience*.

Tansey W, Koyejo O, Poldrack RA, Scott JG (2017). False discovery rate smoothing. *Journal of the American Statistical Association*.

Trampush JW, Yang ML, Yu J, Knowles E, Davies G, Liewald DC, Starr JM, Djurovic S, Melle I, Sundet K, Christoforou A, Reinvang I, DeRosse P, Lundervold AJ, Steen VM, Espeseth T, Räikkönen K, Widen E, Palotie A, Eriksson JG, Giegling I, Konte B, Roussos P, Giakoumaki S, Burdick KE, Payton A, Ollier W, Horan M, Chiba-Falek O, Attix DK, Need AC, Cirulli ET, Voineskos AN, Stefanis NC, Avramopoulos D, Hatzimanolis A, Arking DE, Smyrnis N, Bilder RM, Freimer NA, Cannon TD, London E, Poldrack RA, Sabb FW, Congdon E, Conley ED, Scult MA, Dickinson D, Straub RE, Donohoe G, Morris D, Corvin A, Gill M, Hariri AR, Weinberger DR, Pendleton N, Bitsios P, Rujescu D, Lahti J, Le Hellard S, Keller MC, Andreassen OA, Deary IJ, Glahn DC, Malhotra AK, Lencz T. (2017). GWAS meta-analysis reveals novel loci and genetic correlates for general cognitive function: a report from the COGENT consortium. *Molecular Psychiatry*.

Xiao X, Dong Q, Gao J-H, Men W, Poldrack RA, Xue G (2017). Transformed neural pattern reinstatement during episodic memory retrieval. *Journal of Neuroscience*.

2016

Bakkour A, Leuker C, Hover AM, Giles NR, Poldrack RA, Schonberg T (2016). Mechanisms of Choice Behavior Shift Using Cue-approach Training. *Frontiers in Psychology*.

Bakkour A, Lewis-Peacock J, Poldrack RA, Schonberg T (2016). Neural mechanisms of cue-approach training. *Neuroimage*.

Eisenberg I, Poldrack RA (2016). Task-set Selection in Probabilistic Environments: a Model of Task-set Inference. *Proceedings of the Cognitive Science Society*.

Gilron R, Rosenblatt J, Koyejo O, Poldrack RA, Mukamel R (2016). What's in a pattern? Examining the Type of Signal Multivariate Analysis Uncovers at the Group Level. *Neuroimage*.

Gorgolewski KJ, Auer T, Calhoun VD, Craddock RC, Das S, Duff EP, Flandin G, Ghosh SS, Glatard T, Halchenko YO, Handwerker DA, Hanke M, Keator D, Li X, Michael Z, Maumet C, Nichols BN, Nichols TE, Poline J-B, Rokem A, Schaefer G, Sochat V, Turner

JA, Varoquaux G, Poldrack RA (2016). The Brain Imaging Data Structure: a standard for organizing and describing outputs of neuroimaging experiments. *Scientific Data*, 3, 160044.

Gorgolewski KJ, Poldrack RA (2016). A practical guide for improving transparency and reproducibility in neuroimaging research. *PLOS Biology*

Hodgson K, Poldrack RA, Curran JE, Knowles EE, Mathias S, Göring HH, Yao N, Olvera RL, Fox PT, Almasy L, Duggirala R, Barch DM, Blangero J, Glahn DC (2016). Shared Genetic Factors Influence Head Motion During MRI and Body Mass Index. *Cerebral Cortex*.

Patterson TK, Lenartowicz A., Berkman ET, Ji D, Poldrack RA, Knowlton BJ (2016). Putting the brakes on the brakes: Negative emotion disrupts cognitive control network functioning and alters subsequent stopping activity. *Experimental Brain Research*

Poldrack RA, Congdon E, Triplett W, Gorgolewski KJ, Karlsgodt K, Mumford JA, Sabb F, Freimer N, London D, Cannon T, Bilder RM (2016). A phenome-wide examination of neural and cognitive function. *Scientific Data*, 3:160110.

Poldrack RA, Yarkoni T (2016). From brain maps to cognitive ontologies: informatics and the search for mental structure. *Annual Review of Psychology*, 67, 587-612

Shine JM, Bissett PG, Bell PT, Koyejo O, Balsters JH, Gorgolewski KJ, Moodie CA, Poldrack RA (2016). The Dynamics of Functional Brain Networks: Integrated Network States during Cognitive Task Performance. *Neuron*

Shine JM, Eisenberg I, Poldrack RA (2016) Computational specificity in the human brain. *Behavioral and Brain Sciences*. 39:e131.

Shine JM, Koyejo O, Poldrack RA (2016). Temporal meta-states are associated with differential patterns of dynamic connectivity, network topology and attention. *Proceedings of the National Academy of Sciences*

Sochat VV, Eisenberg IW, Enkavi AZ, Li J, Bissett PG, Poldrack RA (2016). The Experiment Factory: standardizing behavioral experiments. *Frontiers in Psychology*.

Wager TD, Atlas LY, Botvinick M, Chang L, Coghill RC, Davis KD, Ianetti GD, Poldrack RA, Shackman AJ, Yarkoni T (2016). Pain in the ACC? Commentary on Lieberman and Eisenberger. *Proceedings of the National Academy of Sciences*.

Wiener M, Sommer FT, Ives ZG, Poldrack RA, Litt B (2016). Enabling an Open Data Ecosystem for the Neurosciences. *Neuron*, 92, 617-621.

Worthy D, Davis T, Gorlick MA, Cooper JA, Bakkour A, Mumford JA, Poldrack RA, Maddox WT (2016). Neural Correlates of State-Based Decision-Making in Younger and Older Adults. *Neuroimage*, 130, 13-23.

2015

Chen MY, Jimura K, White CN, Maddox WT, Poldrack RA (2015). Multiple brain networks contribute to the acquisition of bias in perceptual decision-making. *Frontiers in Neuroscience*, 9, 63.

Gorgolewski KJ, Varoquaux G, Rivera G, Schwartz Y, Sochat V, Ghosh SS, Maumet C, Nichols TE, Poline J-B, Yarkoni T, Margulies DS, Poldrack RA (2015). NeuroVault.org: A repository for sharing unthresholded statistical maps, parcellations, and atlases of the human brain. *Neuroimage*.

Gorgolewski KJ, Varoquaux G, Rivera G, Schwartz Y, Ghosh SS, Maumet C, Nichols TE, Poldrack RA, Poline J-B, Yarkoni T, Margulies DS (2015). NeuroVault.org: A web-based repository for collecting and sharing unthresholded statistical maps of the human brain. *Frontiers in Neuroinformatics*, 9:8

Helfinstein S, Mumford J, Poldrack RA (2015). If All Your Friends Jumped Off a Bridge: The Effect of Others' Actions on Engagement in and Recommendation of Risky Behaviors. *Journal of Experimental Psychology: General*, 144, 12-17.

Khanna R, Ghosh J, Poldrack RA, Koyejo O (2015). Sparse submodular probabilistic PCA. In Proceedings of the 18th International conference on Artificial Intelligence and Statistics (AISTATS),

Laumann T, Gordon E, Adeyemo B, Snyder AZ, Joo SJ, Chen MY, Gilmore AW, McDermott KB, Nelson SM, Dosenbach NUF, Schlaggar BL, Mumford JA, Poldrack RA, Petersen SE (2015). Functional network and areal organization of a densely-sampled individual human brain. *Neuron*, 87 657-70.

Mumford JA, Poline J-B, Poldrack RA (2015). Orthogonalization of regressors in fMRI models. *PLOS One*, 10, e0126255.

Poldrack RA (2015). Is "efficiency" a useful concept in cognitive neuroscience? *Developmental Cognitive Neuroscience*, 11, 12-17.

- Poldrack RA, Farah MJ (2015). Probing the human brain: Progress and challenges. *Nature*, 526, 371-379.
- Poldrack RA, Gorgolewski KJ (2015). OpenfMRI: Open sharing of task fMRI data. *Neuroimage*, S1053-8119(15)00463-2
- Poldrack RA, Laumann TO, Koyejo O, Gregory B, Hover A, Chen MY, Luci J, Joo SJ, Handwerker D, Liang J, Boyd R, Hunicke-Smith S, Simpson ZB, Caven T, Sochat V, Shine JM, Gordon E, Snyder AZ, Adeyemo B, Petersen SE, Glahn D, McKay DR, Curran JE, Göring HHH, Carless MA, Blangero J, Frick L, Marcotte E, Mumford JA (2015). Long-term neural and physiological phenotyping of a single human. *Nature Communications*, 6:8885
- Poldrack RA, Poline JB (2015). The publication and reproducibility challenges of shared data. *Trends in Cognitive Sciences*, 19, 59-61.
- Shine JM, Oluwasanmi K, Bell PT, Gorgolewski KJ, Moran G, Poldrack RA (2015). Estimation of dynamic functional connectivity using Multiplication of Temporal Derivatives. *Neuroimage*, 122, 399-407.
- Sochat VV, Gorgolewski KJ, Koyejo O, Durnez J, Poldrack RA (2015). Effects of thresholding on correlation-based image similarity metrics. *Frontiers in Brain Imaging Methods*, 9:418.

2014

- Aron AR, Robbins TW, Poldrack RA (2014). Inhibition and the right inferior frontal cortex: One decade on. *Trends in Cognitive Science*, 18, 177-185.
- Aron AR, Robbins TW, Poldrack RA (2014). Right inferior frontal cortex: addressing the rebuttals. *Frontiers in Human Neuroscience*.
- Congdon E, Altshuler LL, Mumford JA, Karlsgodt KH, Sabb FW, Ventura J, McGough JJ, London ED, Cannon TD, Bilder RM, Poldrack RA (2014). Neural activation during response inhibition in adult attention-deficit/hyperactivity disorder: Preliminary findings on the effects of medication and symptom severity. *Psychiatry Res*.
- Davis T, LaRocque K, Mumford J, Norman K, Wagner A, Poldrack RA (2014). What Do Differences Between Multi-voxel and Univariate Analysis Mean? How Subject-, Voxel-, and Trial-level Variance Impact fMRI Analysis. *Neuroimage*, 97, 271-83.
- Davis T, Poldrack RA (2014). Quantifying the Internal Structure of Categories Using a Neural Typicality Measure. *Cerebral Cortex*, 24, 1720-37.
- Davis T, Xue G, Love B, Preston A, Poldrack RA (2014). Global Neural Pattern Similarity As A Common Basis For Categorization and Recognition Memory. *Journal of Neuroscience*, 34, 7472-84
- Hastings J, Frishkoff GA, Smith B, Jensen M, Poldrack RA, Lomax J, Bandrowski A, Imam F, Turner JA, Martone ME (2014). Interdisciplinary perspectives on the development, integration, and application of cognitive ontologies. *Frontiers in Neuroinformatics*, 8:62.
- Helfinstein S, Schonberg T, Congdon E, Karlsgodt KH, Sabb FW, Cannon TD, London ED, Bilder RM, Poldrack RA (2014). Predicting risky choices from brain activity patterns. *Proceedings of the National Academy of Sciences*, 111, 2470-5.
- Jimura K, Cazalis F, Stover ER, Poldrack RA (2014). The neural basis of task switching changes with skill acquisition. *Frontiers in Human Neuroscience*, 8:339
- Koyejo O, Khanna R, Ghosh J, Poldrack RA (2014). On Prior Distributions and Approximate Inference for Structured Variables, *Advances in Neural Information Processing Systems*, 27
- Mumford JA, Davis T, Poldrack RA (2014). The impact of study design on pattern estimation for single-trial multivariate pattern analysis. *Neuroimage*, 103, 130-8.
- Poldrack RA, Gorgolewski K (2014). Making big data open: Data sharing in Neuroimaging. *Nature Neuroscience*, 17, 1510-7.
- Schonberg T, Bakkour A, Hover AM, Mumford JA, Nagar L, Perez J., Poldrack RA (2014). Changing value through approach: An automatic mechanism of behavior change. *Nature Neuroscience*, 17, 625-630.
- Schonberg T, Bakkour A, Mumford JA, Poldrack RA (2014). Influencing food choices by training: Evidence for modulation of frontoparietal control signals. *Journal of Cognitive Neuroscience*, 26, 247-68.
- Thakkar K, Congdon E, Poldrack RA, Sabb FW, London ED, Cannon TD, Bilder RM (2014). Women are More Sensitive than Men to Prior Trial Events on the Stop Signal Task. *British Journal of Psychology*, 105, 254-72.

Wagshal, D, Knowlton, BJ, Cohen, JR, Poldrack, RA, Bookheimer, SY, Bilder, RM, Asarnow, RF (2014). Impaired automatization of a cognitive skill in first-degree relatives of patients with schizophrenia *Psychiatry Research*, 215, 294-9.

White CN, Congdon E, Mumford JA, Karlsgodt KH, Sabb FW, Freimer N, London ED, Cannon TD, Bilder RM, Poldrack RA (2014). Decomposing decision components in the Stop-signal task: A model-based approach to individual differences in inhibitory control. *Journal of Cognitive Neuroscience*, 26, 1601-1614.

White CN, Poldrack RA (2014). Decomposing bias in different types of simple decisions. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 40, 385-98.

2013

Barch DM, Burgess GC, Harms MP, Petersen SE, Schlaggar BL, Corbetta M, Curtiss S, Dixit S, Feldt C, Nolan D, Bryant E, Hartley T, Footer O, Bjork JM, Poldrack RA, Smith S, Snyder AZ, Van Essen DC (2013). Function in the Human Connectome: Task fMRI and Individual Differences in Behavior. *Neuroimage*.

Brakewood B, Poldrack RA (2013). The Ethics of Secondary Data Analysis: Considering the Application of Belmont Principles to the Sharing of Neuroimaging Data. *Neuroimage*.

Congdon E, Bato AA, Schonberg T, Mumford JA, Karlsgodt KH, Sabb FW, London ED, Cannon TD, Bilder RM, Poldrack RA (2013). Differences in Neural Activation as a Function of Risk-taking Task Parameters. *Frontiers in Decision Neuroscience*, 7, 173

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Presentations and Abstracts

- 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) *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). *Mechanisms of behavioral change*. Talk presented at the Geneva-Princeton Learning Meeting, January.
- Poldrack RA (2016). *Improving the reproducibility of neuroimaging research*. Talk presented at Neurohackweek, Seattle, September.
- Poldrack RA (2016). *The future of fMRI in cognitive neuroscience*. Talk presented at the UCLA Advanced Neuroimaging Summer School. July
- 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). *Automatic influences on value*. Talk presented at Decision Neuroscience Annual Meeting, Philadelphia, June.
- Poldrack RA (2016). *Representing Knowledge in Psychology: Challenges and Perspectives*. Talk presented at Association for Psychological Science Annual Meeting, Chicago, May.
- Poldrack RA (2016). *Changing choices and preferences through automatic mechanisms*. Talk presented at Association for Psychological Science Annual Meeting, Chicago, May.
- Poldrack RA (2016). *Using neuroscience to refine the ontology of psychology*. Talk presented at Rethinking the Taxonomy of Psychology, London, Ontario, April.
- 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.

Shine JM, Koyejo O, Gilat M, Bell P, Poldrack RA (2015). Robust estimation of dynamic functional connectivity using a novel functional coupling analysis. Poster presented at the Organization for Human Brain Mapping Annual Meeting, Honolulu, June.

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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 (2014). *Towards a personalized cognitive neuroscience: The MyConnectome Project*. Keynote address presented at the International Conference on Cognitive Neuroscience (ICON), Brisbane, July.

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Poldrack RA (2014). *The Cognitive Atlas Project*. Talk presented at the Annual Meeting of the Association for Psychological Science, San Francisco, May.

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- Poldrack, R.A. (2011). *Learning and changing habits*. Talk presented at the International Workshop on Brain, Cognition, and Learning, Beijing, May.
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- Poldrack, R.A. (2010). *Inference and Imaging*. Talk presented at the Hastings Center Workshop on Interpreting Neuroimages II, Philadelphia, February.

- Poldrack, R.A. (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.
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- Poldrack, R.A. (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 Boqueq, Israel.

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- Poldrack, R.A. (2006). *Learning-related changes during skill learning: Evidence for memory system interactions*. Talk presented at the Marburg Conference on Neuroimaging and Theories of Memory, Marburg, Germany, July.
- Poldrack, R.A. (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.
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- Poldrack, R.A. (2005). The development of phonological awareness. Talk presented at the Amsterdam Conference on Developmental Cognitive Neuroscience, Amsterdam.

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- 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.
- R. A. Poldrack, J. C. Hsieh, & J. D. E. Gabrieli (1998). Striatal activation associated with visual skill learning and repetition priming examined using FMRI. *Society for Neuroscience Abstracts*, 24, 408.5.
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- Poldrack, R. A., Protopapas, A., Nagarajan, S., Tallal, P., Merzenich, M. M., Temple, E., & Gabrieli, J. D. E. (1998). *Auditory processing of temporally compressed speech: An fMRI study*. Poster presented at the Cognitive Neuroscience Society Meeting, 1998.
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- Prabakharan, V., Seger, C. A., Poldrack, R. A., Desmond, J. E., & Gabrieli, J. D. E. (1997, August). *Neural correlates of categorical learning examined using fMRI* Poster presented at the annual meeting of the Cognitive Science Society, Palo Alto.
- Seger, C. A., Prabakharan, V., Poldrack, R. A., Desmond, J. E., & Gabrieli, J. D. E. (1997, August). *Implicit and explicit knowledge in artificial grammar learning: An fMRI study*. Poster presented at the annual meeting of the Cognitive Science Society, Palo Alto.
- Poldrack, R. A., Vaidya, C. J., Palav, A., & Gabrieli, J. D. E. (1996). Priming of new conceptual associations. *Psychonomic Society Abstracts*, 1, 293.
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- Poldrack, R. A., & Cohen, N. J. (1995, November). *Can a single memory system support skill learning and priming?* Poster presented at the annual meeting of the Psychonomic Society, Los Angeles.
- Poldrack, R. A., & Cohen, N. J. (1995, May). *Memory retrieval in sequence learning*. Paper presented at the annual meeting of the Midwest Psychological Association, Chicago.
- Selco, S. L., Poldrack, R. A., & Cohen, N. J. (1995, May). *The nature of the representation supporting learning in a digit entering task*. Paper presented at the annual meeting of the Midwest Psychological Association, Chicago.
- Vaidya, C.J., Demb, J.B., Keane, M.M., Monti, L.A., Cohen, N.J., Poldrack, R.A., & Gabrieli, J.D.E. (1994). The core memory deficit in amnesia is neither one of conceptual processing nor one of explicit retrieval. *Society for Neuroscience Abstracts*, 20, 1289.
- Poldrack, R. A., Selco, S. L., Field, J. E., & Cohen, N. J. (1994a, November). *Repetition effects from novice to expert*. Poster presented at the annual meeting of the Psychonomic Society, St. Louis.
- Poldrack, R. A., & Logan, G. D. (1994, May). *Fluency and recognition: It's not that easy*. Paper presented at the annual meeting of the Midwest Psychological Association, Chicago.
- Poldrack, R. A., Selco, S. L., Field, J. E., & Cohen, N. J. (1994, May). *Skill learning and repetition effects in a digit entering task*. Paper presented at the annual meeting of the Midwest Psychological Association, Chicago.

Vaidya, C.J., Gabrieli, J.D.E., Keane, M.M., Monti, L.A., Cohen, N.J., & Poldrack, R.A. (1994, March). *Is amnesia a selective impairment of conceptual processes?* Poster presented at the First Annual Cognitive Neuroscience Conference, San Francisco.

Dulany, D. E., & Poldrack, R. A. (1991, November). *Learned covariation: Conscious or unconscious representation?* Paper presented at the annual meeting of the Psychonomic Society, San Francisco.

Invited addresses and colloquia

2017: Caltech; University of Pennsylvania; University of Maryland; Ghent University

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