

Russell A. Poldrack

Stanford University
Department of Psychology
Jordan Hall, Building 420
450 Serra Mall
Stanford, CA 94305-2130

Phone: 650-497-8488
Fax: 650-725-5699
Email: poldrack@stanford.edu
url: <http://www.poldracklab.org>
github:<https://github.com/poldrack/>
Twitter: @russpoldrack

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
2017-: Affiliate, Stanford Bio-X
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

2017: Fellow, Psychonomic Society
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)

Advisory Council Member: Advances in Methods and Practices in Psychological Science (AMPPS)

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, NBDT (Neurons, Behavior, Data Analysis, and Theory), 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

Member, Executive Committee, NIH Core Neuropsychological Measures for Obesity and Diabetes Project, 2017-2018

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

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

Member, NIMH Workgroup on Revisions to the RDoC Matrix, 2017-present

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

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, NIMH, “Characterizing cognitive control networks using a precision neuroscience approach.” 2018-2023.
Principal Investigator, NIMH, “BIDS-Derivatives: A data standard for derived data and models in the BRAIN Initiative.” 2017-2019.
Principal Investigator, NSF, “Computational Infrastructure for Brain Research: EAGER: A Computationally Enabled Knowledge Infrastructure for Cognitive Neuroscience.” 2017-2019.
Co-investigator (R. Adolphs, PI)/subcontract PI, NINDS, “Causal mapping of emotion networks with concurrent electrical stimulation and fMRI”, 2017-2020
Co-investigator (L Williams PI), NIMH, “Mapping connectomes for depression,” 2017-2021.
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 (T. Yarkoni, PI)/subcontract PI, NIMH, “NeuroScout: A cloud-based platform for rapid re-analysis of naturalistic fMRI datasets”, 2016-2021.
Collaborator (G. Leng, PI), EC FP7 Consortium, “The Neurobiology of Decision-Making in Eating - Innovative Tools (NUDGE-IT)”, 2014-2018.

Completed:

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.

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, NCRG 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 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: 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, Functional Neuroimaging, Neuroeconomics, Human Learning and Memory, Computer Methods for Experimental Psychology

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 = 95)

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>

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

In press

Poldrack RA (2018). *The New Mind Readers: What Neuroimaging Can and Cannot Reveal about our Thoughts*. Princeton University Press.

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

2018

Andersen MR, Winther, O, Hansen LK, Poldrack RA, Koyejo O (2018). Bayesian Structure Learning for Dynamic Brain Connectivity. In *Proceedings of the 21st International Conference on Artificial Intelligence and Statistics (AISTATS)*.

Davies G, et al. (2018). Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. *Nature Communications*.

Naselaris T, Bassett DS, Fletcher A, Kording K, Kriegeskorte N, Nienborg H, Poldrack RA, Shohamy D, Kay D. (2018). Cognitive Computational Neuroscience: A New Conference for an Emerging Discipline. *Trends in Cognitive Sciences*.

Shine JM, Auburn MJ, Breakspear M, Poldrack RA (2018). The modulation of neural gain facilitates a transition between functional segregation and integration in the brain. *eLife*.

Shine JM, van den Brink RL, Hernaus D, Nieuwenhuis S, Poldrack RA (2018). Catecholaminergic Manipulation Alters Dynamic Network Topology Across Cognitive States. *Network Neuroscience*.

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*.

Bakkour A, Lewis-Peacock JA, Poldrack RA, Schonberg T (2017). Neural mechanisms of cue-approach training. *Neuroimage*, 51:92-104.

Eckert MA, Vaden KI Jr, Maxwell AB, Cute SL, Gebregziabher M, Berninger VW; Dyslexia Data Consortium. (2017). Common Brain Structure Findings Across Children with Varied Reading Disability Profiles. *Scientific Reports*. 7(1):6009. doi: 10.1038/s41598-017-05691-5. (Member of Dyslexia Data Consortium).

Eisenberg IW, Bissett PG, Canning JR, Dallery J, Enkavi AZ, Whitfield-Gabrieli S, Gonzalez O, Green AI, Greene MA, Kiernan M, Kim SJ, Li J, Lowe MR, Mazza GL, Metcalf SA, Onken L, Parikh SS, Peters E, Prochaska JJ, Scherer EA, Stoeckel LE, Valente MJ, Wu J, Xie H, Mackinnon DP, Marsch LA, Poldrack RA (2017). Applying novel technologies and methods to inform the ontology of self-regulation. *Behaviour Research and Therapy*

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. *PLOS One*

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*.

Gorgolewski KJ, Durnez J, Poldrack RA. (2017). Preprocessed Consortium for Neuropsychiatric Phenomics dataset. *F1000Research*, 6:1262. doi: 10.12688/f1000research.11964.2.

Khanna R, Ghosh J, Poldrack RA, and Koyejo O (2017). A Deflation Method for Structured Probabilistic PCA. *Proceedings of the 2017 SLAM 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

Lam M, et al. (2017). Large-Scale cognitive GWAS Meta-analysis Reveals Tissue-Specific Neural Expression and Potential Nootropic Drug Targets. *Cell Reports*

Mathias SR, Knowles EEM, Barrett J, Leach O, Buccheri S, Beetham T, Blangero J, Poldrack RA, Glahn DC (2017). The Processing-Speed Impairment in Psychosis Is More Than Just Accelerated Aging. *Schizophrenia Bulletin*.

Mathias SR, Knowles EEM, Barrett J, Beetham T, Leach O, Buccheri S, Aberizk K, Blangero J, Poldrack RA, Glahn DC (2017). Deficits in visual working-memory capacity and general cognition in African Americans with psychosis. *Schizophrenia Research*.

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*, 20, 299-303.

Poldrack RA (2017). Precision Neuroscience: Dense Sampling of Individual Brains. *Neuron*, 95, 727–729 (invited commentary).

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

Poldrack, RA (2017). Developing a reproducible workflow for large-scale phenotyping. in J Kitzes, D Turek, F Deniz (Eds), *The Practice of Reproducible Research: Case Studies and Lessons from the Data-Intensive Sciences*. Oakland, CA: University of California Press.

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*.

Poldrack RA, Monahan J, Imrey P, Reyna V, Raichle M, Faigman D, Buckholz J (2017). Predicting violent behavior: What can neuroscience add? *Trends in Cognitive Sciences*

Rubin TN, Koyejo O, Gorgolewski KJ, Jones MN, Poldrack RA, Yarkoni T (2017). Decoding brain activity using a large-scale probabilistic functional-anatomical atlas of human cognition. *PLOS Computational Biology*

Shine JM, Kucyi A, Foster B, Bickel S, Wang D, Lu H, Poldrack RA, Hsieh LT, Parvizi J (2017). Distinct patterns of temporal and directional connectivity among intrinsic networks in the human brain. *Journal of Neuroscience*.

Shine JM, Poldrack RA (2017). Principles of Dynamic Network Reconfiguration across Diverse Brain States. *Neuroimage*.

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

Trampush JW, et al. (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, Hunnicke-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.
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Presentations and Abstracts

- 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). *Reproducibility in neuroimaging: Challenges and solutions* Kavli Workshop Lecture, Society for Neuroeconomics, Toronto, October.
- Poldrack RA (2017). *Reproducibility in neuroimaging: What's the problem?* Talk presented at NeuroHackWeek 2017, Seattle, September.
- Poldrack RA (2017). *Computational infrastructure for cognitive neuroscience: The Poldracklab experience*. Talk presented remotely to NeuroComp17, Madison, WI, August

- Poldrack RA (2017). *Making neuroimaging more reproducible and transparent*. Talk presented at the International Conference on Cognitive Neuroscience (ICON), Amsterdam, August.
- Poldrack RA (2017). *Improving reproducibility of fMRI studies*. Talk presented at the Society for the Study of Ingestive Behavior, Montreal, July
- Poldrack RA (2017). *The dynamics of human brain function*. Talk presented at the Neuroscience Workshop Saclay, Paris, June
- 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.
- Laumann T, Snyder AZ, Gordon E, Adeyemo E, Poldrack RA, Petersen SE (2015). Start-of-scan effects in resting state fMRI. Poster presented at the Organization for Human Brain Mapping Annual Meeting, Honolulu, June.
- Gorgolewski KJ, Wheeler K, Halchenko Y, Poline JB, Poldrack RA (2015). The impact of shared data in neuroimaging: the case of OpenfMRI.org. Poster presented at the Organization for Human Brain Mapping Annual Meeting, Honolulu, June.
- Gorgolewski KJ, Varoquaux G, Rivera G, Wexler J, Schwartz Y, Ghosh S, Maumet C, Nichols T, Poline JB, Yarkoni T, Margulies D, Poldrack RA (2015). NeuroVault.org: new features and a proof of concept analysis. Poster presented at the Organization for Human Brain Mapping Annual Meeting, Honolulu, June.
- Nichols N, Keator D, Maumet C, Flandin G, Nichols T, Gorgolewski KJ, Halchenko Y, Hanke M, Haselgrove C, Helmer K, Marcus D, Poldrack RA, Turner J, Kennedy D, Poline JB, Pohl K (2015). Application of the Neuroimaging Data Model to Represent and Exchange Primary and Derived Data. Poster presented at the Organization for Human Brain Mapping Annual Meeting, Honolulu, June.
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- Ghosh S, Auer T, Gorgolewski KJ, Halchenko Y, Hanke M, Flandin G, Nichols N, Poldrack RA, Van Horn J, Marcus D, Keator D (2015). NIDM-Workflow - The Evolution of Provenance in Neuroimaging. Poster 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). *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). *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.
- 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, Laumann TO, Frick L, Koyejo O, Gregory B, Hover A, Chen MY, Huk A, Joo SJ, Handwerker D, Liang J, Boyd R, Simpson ZB, Hunicke-Smith S, Caven T, Marcotte E, Petersen SE, Mumford JA (2014). Extensive neurocognitive phenotyping of a single human: The MyConnectome Project. *Organization for Human Brain Mapping Abstracts*.
- Laumann TO, Gordon EM, Adeyemo B, Snyder AZ, Poldrack RA, Petersen SE (2014). Resting state correlation reliability and variability in a single subject: The MyConnectome Project. *Organization for Human Brain Mapping Abstracts*.
- 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, Mumford JA, Schonberg T, Kalar D, Barman B, Yarkoni T (2012). Discovering relations between mind, brain, and mental disorders using topic mapping. *Organization for Human Brain Mapping Abstracts*, #806.
- Yarkoni T, Poldrack R, Nichols T, Van Essen D and Wager T (2011). Extensions and improvements to the Neurosynth framework for automated meta-analysis. *Organization for Human Brain Mapping Abstracts*, #809.
- Poldrack, R.A. (2012). *The future of fMRI in the cognitive neuroscience of language*. Talk presented at the International Workshop on Brain, Cognition, and Learning, Beijing, June.
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- D. Worthy, M. A. Gorlick, J. Mumford, A. Bakkour, R. A. Poldrack, W. Maddox (2011) Neural correlates of model-based and model-free learning in a dynamic decision-making task. *Society for Neuroscience Abstracts*, 403.02
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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.
- S. Shemmassian, J. A. Brown, A. Galvan, R. Poldrack, S. S. Lee, D. Shirinyan, E. Miller, J. Cohen, R. Bilder, J. Mcgough, S. Bookheimer, J. T. Mccracken (2010). White matter differences in boys and girls with attention-deficit hyperactivity disorder. *Society for Neuroscience Abstracts*, 16.6
- A. Lenartowicz, F. Verbruggen, R. A. Poldrack (2010) Inhibition-related activation in the right inferior frontal gyrus in the absence of inhibitory cues. *Society for Neuroscience Abstracts*, 95.15
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- Poldrack, R.A. (2010). *Toward a semantic infrastructure for cognitive neuroscience: The Cognitive Atlas* Talk presented at the Cognitive Neuroscience Society Annual Meeting, Montreal, April.
- 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, 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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- E. M. Miller, A. Galvan, S. Y. Bookheimer, R. M. Bilder, J. T. Mccracken, R. A. Poldrack (2009) Structural correlates of response inhibition and symptom severity in children with ADHD. *Society for Neuroscience Abstracts*, 537.14
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- M. I. Garrido, K. H. Karlsgodt, K. H. Nuechterlein, T. D. Cannon, R. A. Poldrack (2009) Disrupted effective connectivity and working memory in schizophrenia. *Society for Neuroscience Abstracts*, 790.15
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- Kenner, N.M., Mumford, J.A., Lenartowicz, A., Hommer, R.E., Skup, M., Leibenluft, E., Poldrack, R.A. (2009). Comparing networks involved in stopping and changing motor responses. *Organization for Human Brain Mapping Abstracts*, #104.
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- Poldrack, R.A. (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.
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- Cohen, J.R., Sabb, F.W., Bilder, R.M., Bookheimer, S.Y., Knowlton, B.J., Asarnow, R.F., & Poldrack, R.A. (2008). The behavioral and neural development of reward-motivated learning. *Society for Neuroscience Abstracts*, 121.1
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- Rizk-Jackson, A.M., Aron, A.R., Mumford, J.A., & Poldrack, R.A. (2008). How powerful are fMRI biomarkers for detecting change over time? *Society for Neuroscience Abstracts*, 497.7
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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; 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