




Russell Poldrack

Albert Ray Lang Professor of Psychology and Professor, by courtesy, of Computer Science

 Curriculum Vitae available Online

Bio

BIO

I grew up in a small town in Texas and attended Baylor University. After completing my PhD in experimental psychology at the University of Illinois in Urbana-Champaign, I spent four years as a postdoc at Stanford. I have held faculty positions at Massachusetts General Hospital/Harvard Medical School, UCLA, and the University of Texas. I joined the Stanford faculty in 2014.

ACADEMIC APPOINTMENTS

- Professor, Psychology
- Professor (By courtesy), Computer Science
- Member, Bio-X
- Member, Stanford Neurosciences Institute

HONORS AND AWARDS

- Fellow, Association for Psychological Science (2009)
- Distinguished Scientific Award for Early Career Contributions to Psychology, American Psychological Association (2005)
- Wiley Young Investigator Award, Organization for Human Brain Mapping (2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Co-chair, Neuroinformatics 2017 (2017 - present)
- Education Chair-elect, Organization for Human Brain Mapping (2016 - present)
- Chair, External Advisory Board, Human Connectome Project (2011 - 2015)
- Chair, Organization for Human Brain Mapping (2009 - 2010)

LINKS

- Poldracklab web site: <https://poldracklab.stanford.edu>
- The Cognitive Atlas: <http://www.cognitiveatlas.org>
- OpenfMRI: <https://openfmri.org>
- NeuroSynth: <http://neurosynth.org>
- NeuroVault: <http://neurovault.org>
- MyConnectome: <http://myconnectome.org>
- Wikipedia: https://en.wikipedia.org/wiki/Russell_Poldrack

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab uses the tools of cognitive neuroscience to understand how decision making, executive control, and learning and memory are implemented in the human brain. We also develop neuroinformatics tools and resources to help researchers make better sense of data.

Teaching

COURSES

2017-18

- Cognitive Neuroscience: PSYCH 202 (Aut)
- Introduction to Statistical Methods: Precalculus: PSYCH 10, STATS 160, STATS 60 (Win)
- Neurosciences Cognitive Core: NEPR 207 (Spr)

2016-17

- Advanced fMRI modeling and analysis: PSYCH 248 (Win)
- Cognitive Neuroscience: PSYCH 202 (Aut)
- Neurosciences Cognitive Core: NEPR 207 (Spr)
- Reading the Brain: the Scientific, Ethical, and Legal Implications of Brain Imaging: PSYCH 9N (Win)
- fMRI Analysis Bootcamp: PSYCH 248A (Aut)

2015-16

- Cognitive Neuroscience: PSYCH 202 (Aut)
- Judgment and Decision-Making: PSYCH 154 (Spr)
- Neurosciences Cognitive Core: NEPR 207 (Spr)
- Reading the Brain: the Scientific, Ethical, and Legal Implications of Brain Imaging: PSYCH 9N (Win)

2014-15

- Reading the Brain: the Scientific, Ethical, and Legal Implications of Brain Imaging: PSYCH 9N (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Steven Hansen, Anna Khazenzon, Josiah Leong, Yuan Chang Leong, Stephanie Sorenson

Postdoctoral Faculty Sponsor

Patrick Bissett, Teon Brooks, Joke Christine M Durnez, Oscar Esteban Sanz Dranguet, Jessey Wright

Doctoral Dissertation Advisor (AC)

Ian Eisenberg, Ayse Enkavi

Postdoctoral Research Mentor

Teon Brooks, Jessey Wright

Doctoral (Program)

Ian Eisenberg, Ayse Enkavi

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **The Dynamics of Functional Brain Networks: Integrated Network States during Cognitive Task Performance.** *Neuron*
Shine, J. M., Bissett, P. G., Bell, P. T., Koyejo, O., Balsters, J. H., Gorgolewski, K. J., Moodie, C. A., Poldrack, R. A.
2016; 92 (2): 544-554
- **Long-term neural and physiological phenotyping of a single human** *NATURE COMMUNICATIONS*
Poldrack, R. A., Laumann, T. O., Koyejo, O., Gregory, B., Hover, A., Chen, M., Gorgolewski, K. J., Luci, J., Joo, S. J., Boyd, R. L., Hunicke-Smith, S., Simpson, Z. B., Caven, et al
2015; 6
- **Progress and challenges in probing the human brain** *NATURE*
Poldrack, R. A., Farah, M. J.
2015; 526 (7573): 371-379
- **Functional System and Areal Organization of a Highly Sampled Individual Human Brain** *NEURON*
Laumann, T. O., Gordon, E. M., Adeyemo, B., Snyder, A. Z., Joo, S. J., Chen, M., Gilmore, A. W., McDermott, K. B., Nelson, S. M., Dosenbach, N. U., Schlaggar, B. L., Mumford, J. A., Poldrack, et al
2015; 87 (3): 657-670
- **Making big data open: data sharing in neuroimaging** *NATURE NEUROSCIENCE*
Poldrack, R. A., Gorgolewski, K. J.
2014; 17 (11): 1510-1517
- **Changing value through cued approach: an automatic mechanism of behavior change** *NATURE NEUROSCIENCE*
Schonberg, T., Bakkour, A., Hover, A. M., Mumford, J. A., Nagar, L., Perez, J., Poldrack, R. A.
2014; 17 (4): 625-U195
- **Predicting risky choices from brain activity patterns** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Helfinstein, S. M., Schonberg, T., Congdon, E., Karlsgodt, K. H., Mumford, J. A., Sabb, F. W., Cannon, T. D., London, E. D., Bilder, R. M., Poldrack, R. A.
2014; 111 (7): 2470-2475
- **Inferring Mental States from Neuroimaging Data: From Reverse Inference to Large-Scale Decoding** *NEURON*
Poldrack, R. A.
2011; 72 (5): 692-697
- **Greater Neural Pattern Similarity Across Repetitions Is Associated with Better Memory** *SCIENCE*
Xue, G., Dong, Q., Chen, C., Lu, Z., Mumford, J. A., Poldrack, R. A.
2010; 330 (6000): 97-101
- **A unique adolescent response to reward prediction errors** *NATURE NEUROSCIENCE*
Cohen, J. R., Asarnow, R. F., Sabb, F. W., Bilder, R. M., Bookheimer, S. Y., Knowlton, B. J., Poldrack, R. A.
2010; 13 (6): 669-671
- **Decoding the Large-Scale Structure of Brain Function by Classifying Mental States Across Individuals** *PSYCHOLOGICAL SCIENCE*
Anonymous
2009; 20 (11): 1364-1372
- **Transformed Neural Pattern Reinstatement during Episodic Memory Retrieval** *JOURNAL OF NEUROSCIENCE*
Xiao, X., Dong, Q., Gao, J., Men, W., Poldrack, R. A., Xue, G.
2017; 37 (11): 2986-2998

- **GWAS meta-analysis reveals novel loci and genetic correlates for general cognitive function: a report from the COGENT consortium** *MOLECULAR PSYCHIATRY*
Trampush, J. W., Yang, M. L., Yu, J., Knowles, E., Davies, G., Liewald, D. C., Starr, J. M., Djurovic, S., Melle, I., Sundet, K., Christoforou, A., Reinvang, I., DeRosse, et al
2017; 22 (3): 336-345
- **BIDS apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods** *PLOS COMPUTATIONAL BIOLOGY*
Gorgolewski, K. J., Alfaro-Almagro, F., Auer, T., Bellec, P., Capota, M., Chakravarty, M. M., Churchill, N. W., Cohen, A. L., Craddock, R. C., Devenyi, G. A., Eklund, A., Esteban, O., Flandin, et al
2017; 13 (3)
- **Best practices in data analysis and sharing in neuroimaging using MRI.** *Nature neuroscience*
Nichols, T. E., Das, S., Eickhoff, S. B., Evans, A. C., Glatard, T., Hanke, M., Kriegeskorte, N., Milham, M. P., Poldrack, R. A., Poline, J., Proal, E., Thirion, B., Van Essen, et al
2017; 20 (3): 299-303
- **What's in a pattern? Examining the type of signal multivariate analysis uncovers at the group level.** *NeuroImage*
Gilron, R., Rosenblatt, J., Koyejo, O., Poldrack, R. A., Mukamel, R.
2017; 146: 113-120
- **The Processing-Speed Impairment in Psychosis Is More Than Just Accelerated Aging.** *Schizophrenia bulletin*
Mathias, S. R., Knowles, E. E., Barrett, J., Leach, O., Buccheri, S., Beetham, T., Blangero, J., Poldrack, R. A., Glahn, D. C.
2017
- **OpenfMRI: Open sharing of task fMRI data** *NEUROIMAGE*
Poldrack, R. A., Gorgolewski, K. J.
2017; 144: 259-261
- **Putting the brakes on the brakes: negative emotion disrupts cognitive control network functioning and alters subsequent stopping ability.** *Experimental brain research*
Patterson, T. K., Lenartowicz, A., Berkman, E. T., Ji, D., Poldrack, R. A., Knowlton, B. J.
2016; 234 (11): 3107-3118
- **Shared Genetic Factors Influence Head Motion During MRI and Body Mass Index.** *Cerebral cortex*
Hodgson, K., Poldrack, R. A., Curran, J. E., Knowles, E. E., Mathias, S., Göring, H. H., Yao, N., Olvera, R. L., Fox, P. T., Almasy, L., Duggirala, R., Barch, D. M., Blangero, et al
2016: -?
- **Neural mechanisms of cue-approach training.** *NeuroImage*
Bakkour, A., Lewis-Peacock, J. A., Poldrack, R. A., Schonberg, T.
2016
- **Temporal metastates are associated with differential patterns of time-resolved connectivity, network topology, and attention** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Shine, J. M., Koyejo, O., Poldrack, R. A.
2016; 113 (35): 9888-9891
- **A Practical Guide for Improving Transparency and Reproducibility in Neuroimaging Research.** *PLoS biology*
Gorgolewski, K. J., Poldrack, R. A.
2016; 14 (7)
- **The Experiment Factory: Standardizing Behavioral Experiments** *FRONTIERS IN PSYCHOLOGY*
Sochat, V. V., Eisenberg, I. W., Enkavi, A. Z., Li, J., Bissett, P. G., Poldrack, R. A.
2016; 7
- **Neural correlates of state-based decision-making in younger and older adults** *NEUROIMAGE*
Worthy, D. A., Davis, T., Gorlick, M. A., Cooper, J. A., Bakkour, A., Mumford, J. A., Poldrack, R. A., Maddox, W. T.
2016; 130: 13-23
- **Mechanisms of Choice Behavior Shift Using Cue-approach Training** *FRONTIERS IN PSYCHOLOGY*
Bakkour, A., Leuker, C., Hover, A. M., Giles, N., Poldrack, R. A., Schonberg, T.

2016; 7

- **NeuroVault.org: A repository for sharing unthresholded statistical maps, parcellations, and atlases of the human brain.** *NeuroImage*
Gorgolewski, K. J., Varoquaux, G., Rivera, G., Schwartz, Y., Sochat, V. V., Ghosh, S. S., Maumet, C., Nichols, T. E., Poline, J., Yarkoni, T., Margulies, D. S., Poldrack, R. A.
2016; 124: 1242-1244
- **From Brain Maps to Cognitive Ontologies: Informatics and the Search for Mental Structure** *ANNUAL REVIEW OF PSYCHOLOGY, VOL 67*
Poldrack, R. A., Yarkoni, T.
2016; 67: 587-612
- **The brain imaging data structure, a format for organizing and describing outputs of neuroimaging experiments.** *Scientific data*
Gorgolewski, K. J., Auer, T., Calhoun, V. D., Craddock, R. C., Das, S., Duff, E. P., Flandin, G., Ghosh, S. S., Glatard, T., Halchenko, Y. O., Handwerker, D. A., Hanke, M., Keator, et al
2016; 3: 160044-?
- **Mechanisms of Choice Behavior Shift Using Cue-approach Training.** *Frontiers in psychology*
Bakkour, A., Leuker, C., Hover, A. M., Giles, N., Poldrack, R. A., Schonberg, T.
2016; 7: 421-?
- **Estimation of dynamic functional connectivity using Multiplication of Temporal Derivatives.** *NeuroImage*
Shine, J. M., Koyejo, O., Bell, P. T., Gorgolewski, K. J., Gilat, M., Poldrack, R. A.
2015; 122: 399-407
- **Effects of thresholding on correlation-based image similarity metrics** *FRONTIERS IN NEUROSCIENCE*
Sochat, V. V., Gorgolewski, K. J., Koyejo, O., Durnez, J., Poldrack, R. A.
2015; 9
- **OpenfMRI: Open sharing of task fMRI data.** *NeuroImage*
Poldrack, R. A., Gorgolewski, K. J.
2015
- **Orthogonalization of Regressors in fMRI Models** *PLOS ONE*
Mumford, J. A., Poline, J., Poldrack, R. A.
2015; 10 (4)
- **Multiple brain networks contribute to the acquisition of bias in perceptual decision-making** *FRONTIERS IN NEUROSCIENCE*
Chen, M., Jimura, K., White, C. N., Maddox, W. T., Poldrack, R. A.
2015; 9
- **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*
Helfinstein, S. M., Mumford, J. A., Poldrack, R. A.
2015; 144 (1): 12-17
- **Is "efficiency" a useful concept in cognitive neuroscience?** *DEVELOPMENTAL COGNITIVE NEUROSCIENCE*
Poldrack, R. A.
2015; 11: 12-17
- **The publication and reproducibility challenges of shared data.** *Trends in cognitive sciences*
Poldrack, R. A., Poline, J.
2015; 19 (2): 59-61
- **NeuroVault.org: a web-based repository for collecting and sharing unthresholded statistical maps of the human brain.** *Frontiers in neuroinformatics*
Gorgolewski, K. J., Varoquaux, G., Rivera, G., Schwarz, Y., Ghosh, S. S., Maumet, C., Sochat, V. V., Nichols, T. E., Poldrack, R. A., Poline, J., Yarkoni, T., Margulies, D. S.
2015; 9: 8-?
- **The impact of study design on pattern estimation for single-trial multivariate pattern analysis** *NEUROIMAGE*
Mumford, J. A., Davis, T., Poldrack, R. A.
2014; 103: 130-138

- **Evidence for Corticostriatal Dysfunction During Cognitive Skill Learning in Adolescent Siblings of Patients With Childhood-Onset Schizophrenia** *SCHIZOPHRENIA BULLETIN*
Wagshal, D., Knowlton, B. J., Suthana, N. A., Cohen, J. R., Poldrack, R. A., Bookheimer, S. Y., Bilder, R. M., Asarnow, R. F.
2014; 40 (5): 1030-1039
- **What do differences between multi-voxel and univariate analysis mean? How subject-, voxel-, and trial-level variance impact fMRI analysis** *NEUROIMAGE*
Davis, T., LaRocque, K. F., Mumford, J. A., Norman, K. A., Wagner, A. D., Poldrack, R. A.
2014; 97: 271-283
- **Decomposing Decision Components in the Stop-signal Task: A Model-based Approach to Individual Differences in Inhibitory Control** *JOURNAL OF COGNITIVE NEUROSCIENCE*
White, C. N., Congdon, E., Mumford, J. A., Karlsgodt, K. H., Sabb, F. W., Freimer, N. B., London, E. D., Cannon, T. D., Bilder, R. M., Poldrack, R. A.
2014; 26 (8): 1601-1614
- **Quantifying the Internal Structure of Categories Using a Neural Typicality Measure** *CEREBRAL CORTEX*
Davis, T., Poldrack, R. A.
2014; 24 (7): 1720-1737
- **Interdisciplinary perspectives on the development, integration, and application of cognitive ontologies** *FRONTIERS IN NEUROINFORMATICS*
Hastings, J., Frishkoff, G. A., Smith, B., Jensen, M., Poldrack, R. A., Lomax, J., Bandrowski, A., Imam, F., Turner, J. A., Martone, M. E.
2014; 8
- **Global Neural Pattern Similarity as a Common Basis for Categorization and Recognition Memory** *JOURNAL OF NEUROSCIENCE*
Davis, T., Xue, G., Love, B. C., Preston, A. R., Poldrack, R. A.
2014; 34 (22): 7472-7484
- **The neural basis of task switching changes with skill acquisition** *FRONTIERS IN HUMAN NEUROSCIENCE*
Jimura, K., Cazalis, F., Stover, E. R., Poldrack, R. A.
2014; 8
- **Women are more sensitive than men to prior trial events on the Stop-signal task** *BRITISH JOURNAL OF PSYCHOLOGY*
Thakkar, K. N., Congdon, E., Poldrack, R. A., Sabb, F. W., London, E. D., Cannon, T. D., Bilder, R. M.
2014; 105 (2): 254-272
- **Neural activation during response inhibition in adult attention-deficit/hyperactivity disorder: Preliminary findings on the effects of medication and symptom severity** *PSYCHIATRY RESEARCH-NEUROIMAGING*
Congdon, E., Altshuler, L. L., Mumford, J. A., Karlsgodt, K. H., Sabb, F. W., Ventura, J., McGough, J. J., London, E. D., Cannon, T. D., Bilder, R. M., Poldrack, R. A.
2014; 222 (1-2): 17-28
- **Inhibition and the right inferior frontal cortex: one decade on** *TRENDS IN COGNITIVE SCIENCES*
Aron, A. R., Robbins, T. W., Poldrack, R. A.
2014; 18 (4): 177-185
- **Decomposing Bias in Different Types of Simple Decisions** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-LEARNING MEMORY AND COGNITION*
White, C. N., Poldrack, R. A.
2014; 40 (2): 385-398
- **Impaired automatization of a cognitive skill in first-degree relatives of patients with schizophrenia** *PSYCHIATRY RESEARCH*
Wagshal, D., Knowlton, B. J., Cohen, J. R., Poldrack, R. A., Bookheimer, S. Y., Bilder, R. M., Asarnow, R. F.
2014; 215 (2): 294-299
- **Influencing Food Choices by Training: Evidence for Modulation of Frontoparietal Control Signals** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Schonberg, T., Bakkour, A., Hover, A. M., Mumford, J. A., Poldrack, R. A.
2014; 26 (2): 247-268
- **The ethics of secondary data analysis: Considering the application of Belmont principles to the sharing of neuroimaging data** *NEUROIMAGE*
Brakewood, B., Poldrack, R. A.
2013; 82: 671-676

- **Function in the human connectome: Task-fMRI and individual differences in behavior** *NEUROIMAGE*
Barch, D. M., Burgess, G. C., Harms, M. P., Petersen, S. E., Schlaggar, B. L., Corbetta, M., Glasser, M. F., Curtiss, S., Dixit, S., Feldt, C., Nolan, D., Bryant, E., Hartley, et al
2013; 80: 169-189
- **Greater risk sensitivity of dorsolateral prefrontal cortex in young smokers than in nonsmokers** *PSYCHOPHARMACOLOGY*
Galvan, A., Schonberg, T., Mumford, J., Kohno, M., Poldrack, R. A., London, E. D.
2013; 229 (2): 345-355
- **Complementary Role of Frontoparietal Activity and Cortical Pattern Similarity in Successful Episodic Memory Encoding** *CEREBRAL CORTEX*
Xue, G., Dong, Q., Chen, C., Lu, Z., Mumford, J. A., Poldrack, R. A.
2013; 23 (7): 1562-1571
- **Toward open sharing of task-based fMRI data: the OpenfMRI project.** *Frontiers in neuroinformatics*
Poldrack, R. A., Barch, D. M., Mitchell, J. P., Wager, T. D., Wagner, A. D., Devlin, J. T., Cumba, C., Koyejo, O., Milham, M. P.
2013; 7: 12-?
- **Using fMRI to Constrain Theories of Cognition** *PERSPECTIVES ON PSYCHOLOGICAL SCIENCE*
White, C. N., Poldrack, R. A.
2013; 8 (1): 79-83
- **Differences in neural activation as a function of risk-taking task parameters.** *Frontiers in neuroscience*
Congdon, E., Bato, A. A., Schonberg, T., Mumford, J. A., Karlsgodt, K. H., Sabb, F. W., London, E. D., Cannon, T. D., Bilder, R. M., Poldrack, R. A.
2013; 7: 173-?
- **Learning Predictive Cognitive Structure from fMRI using Supervised Topic Models** *3rd International Workshop on Pattern Recognition in NeuroImaging (PRNI)*
Koyejo, O., Patel, P., Ghosh, J., Poldrack, R. A.
IEEE.2013: 9–12
- **Differences in neural activation as a function of risk-taking task parameters** *FRONTIERS IN NEUROSCIENCE*
Congdon, E., Bato, A. A., Schonberg, T., Mumford, J. A., Karlsgodt, K. H., Sabb, F. W., London, E. D., Cannon, T. D., Bilder, R. M., Poldrack, R. A.
2013; 7
- **Toward open sharing of task-based fMRI data: the OpenfMRI project** *FRONTIERS IN NEUROINFORMATICS*
Poldrack, R. A., Barch, D. M., Mitchell, J. P., Wager, T. D., Wagner, A. D., Devlin, J. T., Cumba, C., Koyejo, O., Milham, M. P.
2013; 7
- **Measuring neural representations with fMRI: practices and pitfalls** *YEAR IN COGNITIVE NEUROSCIENCE*
Davis, T., Poldrack, R. A.
2013; 1296: 108-134
- **Deficits in probabilistic classification learning and liability for schizophrenia** *PSYCHIATRY RESEARCH*
Wagshal, D., Knowlton, B. J., Cohen, J. R., Poldrack, R. A., Bookheimer, S. Y., Bilder, R. M., Fernandez, V. G., Asarnow, R. F.
2012; 200 (2-3): 167-172
- **Perceptual Criteria in the Human Brain** *JOURNAL OF NEUROSCIENCE*
White, C. N., Mumford, J. A., Poldrack, R. A.
2012; 32 (47): 16716-16724
- **Discovering Relations Between Mind, Brain, and Mental Disorders Using Topic Mapping** *PLOS COMPUTATIONAL BIOLOGY*
Poldrack, R. A., Mumford, J. A., Schonberg, T., Kalar, D., Barman, B., Yarkoni, T.
2012; 8 (10)
- **Spatiotemporal activity estimation for multivoxel pattern analysis with rapid event-related designs** *NEUROIMAGE*
Turner, B. O., Mumford, J. A., Poldrack, R. A., Ashby, F. G.
2012; 62 (3): 1429-1438
- **The future of fMRI in cognitive neuroscience** *NEUROIMAGE*
Poldrack, R. A.

2012; 62 (2): 1216-1220

- **The Relationship Between Measures of Impulsivity and Alcohol Misuse: An Integrative Structural Equation Modeling Approach** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*
Courtney, K. E., Arellano, R., Barkley-Levenson, E., Galvan, A., Poldrack, R. A., MacKillop, J., Jentsch, J. D., Ray, L. A.
2012; 36 (6): 923-931
- **Striatal Dopamine D-2/ D-3 Receptors Mediate Response Inhibition and Related Activity in Frontostriatal Neural Circuitry in Humans** *JOURNAL OF NEUROSCIENCE*
Ghahremani, D. G., Lee, B., Robertson, C. L., Tabibnia, G., Morgan, A. T., De Shetler, N., Brown, A. K., Monterosso, J. R., Aron, A. R., Mandelkern, M. A., Poldrack, R. A., London, E. D.
2012; 32 (21): 7316-7324
- **Analyses of regional-average activation and multivoxel pattern information tell complementary stories** *NEUROPSYCHOLOGIA*
Jimura, K., Poldrack, R. A.
2012; 50 (4): 544-552
- **Human Anterior and Posterior Hippocampus Respond Distinctly to State and Trait Anxiety** *EMOTION*
Satpute, A. B., Mumford, J. A., Naliboff, B. D., Poldrack, R. A.
2012; 12 (1): 58-68
- **Deconvolving BOLD activation in event-related designs for multivoxel pattern classification analyses** *NEUROIMAGE*
Mumford, J. A., Turner, B. O., Ashby, F. G., Poldrack, R. A.
2012; 59 (3): 2636-2643
- **Decreasing ventromedial prefrontal cortex activity during sequential risk-taking: an fMRI investigation of the balloon analog risk task** *FRONTIERS IN NEUROSCIENCE*
Schonberg, T., Fox, C. R., Mumford, J. A., Congdon, E., Trepel, C., Poldrack, R. A.
2012; 6
- **Frontiers in brain imaging methods grand challenge.** *Frontiers in neuroscience*
Poline, J., Poldrack, R. A.
2012; 6: 96-?
- **Data sharing in neuroimaging research.** *Frontiers in neuroinformatics*
Poline, J., Breeze, J. L., Ghosh, S., Gorgolewski, K., Halchenko, Y. O., Hanke, M., Haselgrove, C., Helmer, K. G., Keator, D. B., Marcus, D. S., Poldrack, R. A., Schwartz, Y., Ashburner, et al
2012; 6: 9-?
- **Measurement and reliability of response inhibition.** *Frontiers in psychology*
Congdon, E., Mumford, J. A., Cohen, J. R., Galvan, A., Canli, T., Poldrack, R. A.
2012; 3: 37-?
- **Decreasing ventromedial prefrontal cortex activity during sequential risk-taking: an FMRI investigation of the balloon analog risk task.** *Frontiers in neuroscience*
Schonberg, T., Fox, C. R., Mumford, J. A., Congdon, E., Trepel, C., Poldrack, R. A.
2012; 6: 80-?
- **Measurement and reliability of response inhibition** *FRONTIERS IN PSYCHOLOGY*
Congdon, E., Mumford, J. A., Cohen, J. R., Galvan, A., Canli, T., Poldrack, R. A.
2012; 3
- **Data sharing in neuroimaging research** *FRONTIERS IN NEUROINFORMATICS*
Poline, J., Breeze, J. L., Ghosh, S., Gorgolewski, K., Halchenko, Y. O., Hanke, M., Haselgrove, C., Helmer, K. G., Keator, D. B., Marcus, D. S., Poldrack, R. A., Schwartz, Y., Ashburner, et al
2012; 6
- **Inhibition-related Activation in the Right Inferior Frontal Gyrus in the Absence of Inhibitory Cues** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Lenartowicz, A., Verbruggen, F., Logan, G. D., Poldrack, R. A.
2011; 23 (11): 3388-3399

- **Large-scale automated synthesis of human functional neuroimaging data** *NATURE METHODS*
Yarkoni, T., Poldrack, R. A., Nichols, T. E., Van Essen, D. C., Wager, T. D.
2011; 8 (8): 665-U95
- **Spaced Learning Enhances Subsequent Recognition Memory by Reducing Neural Repetition Suppression** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Xue, G., Mei, L., Chen, C., Lu, Z., Poldrack, R., Dong, Q.
2011; 23 (7): 1624-1633
- **Evaluating imaging biomarkers for neurodegeneration in pre-symptomatic Huntington's disease using machine learning techniques** *NEUROIMAGE*
Rizk-Jackson, A., Stoffers, D., Sheldon, S., Kuperman, J., Dale, A., Goldstein, J., Corey-Bloom, J., Poldrack, R. A., Aron, A. R.
2011; 56 (2): 788-796
- **Effect of Modafinil on Learning and Task-Related Brain Activity in Methamphetamine-Dependent and Healthy Individuals** *NEUROPSYCHOPHARMACOLOGY*
Ghahremani, D. G., Tabibnia, G., Monterosso, J., Helleman, G., Poldrack, R. A., London, E. D.
2011; 36 (5): 950-959
- **Neural Correlates of Response Inhibition and Cigarette Smoking in Late Adolescence** *NEUROPSYCHOPHARMACOLOGY*
Galvan, A., Poldrack, R. A., Baker, C. M., McGlennen, K. M., London, E. D.
2011; 36 (5): 970-978
- **Different Forms of Self-Control Share a Neurocognitive Substrate** *JOURNAL OF NEUROSCIENCE*
Tabibnia, G., Monterosso, J. R., Baicy, K., Aron, A. R., Poldrack, R. A., Chakrapani, S., Lee, B., London, E. D.
2011; 31 (13): 4805-4810
- **The cognitive atlas: toward a knowledge foundation for cognitive neuroscience.** *Frontiers in neuroinformatics*
Poldrack, R. A., Kittur, A., Kalar, D., Miller, E., Seppa, C., Gil, Y., Parker, D. S., Sabb, F. W., Bilder, R. M.
2011; 5: 17-?
- **Decoding continuous variables from neuroimaging data: basic and clinical applications.** *Frontiers in neuroscience*
Cohen, J. R., Asarnow, R. F., Sabb, F. W., Bilder, R. M., Bookheimer, S. Y., Knowlton, B. J., Poldrack, R. A.
2011; 5: 75-?
- **Mind the gap: bridging economic and naturalistic risk-taking with cognitive neuroscience** *TRENDS IN COGNITIVE SCIENCES*
Schonberg, T., Fox, C. R., Poldrack, R. A.
2011; 15 (1): 11-19
- **Decoding continuous variables from neuroimaging data: basic and clinical applications** *FRONTIERS IN NEUROSCIENCE*
Cohen, J. R., Asarnow, R. F., Sabb, F. W., Bilder, R. M., Bookheimer, S. Y., Knowlton, B. J., Poldrack, R. A.
2011; 5
- **Altered Functional Connectivity in Frontal Lobe Circuits Is Associated with Variation in the Autism Risk Gene CNTNAP2** *SCIENCE TRANSLATIONAL MEDICINE*
Scott-Van Zeeland, A. A., Abrahams, B. S., Alvarez-Retuerto, A. I., Sonnenblick, L. I., Rudie, J. D., Ghahremani, D., Mumford, J. A., Poldrack, R. A., Dapretto, M., Geschwind, D. H., Bookheimer, S. Y.
2010; 2 (56)
- **Cognitive neuroscience 2.0: building a cumulative science of human brain function** *TRENDS IN COGNITIVE SCIENCES*
Yarkoni, T., Poldrack, R. A., Van Essen, D. C., Wager, T. D.
2010; 14 (11): 489-496
- **Engagement of large-scale networks is related to individual differences in inhibitory control** *NEUROIMAGE*
Congdon, E., Mumford, J. A., Cohen, J. R., Galvan, A., Aron, A. R., Xue, G., Miller, E., Poldrack, R. A.
2010; 53 (2): 653-663
- **Mapping Mental Function to Brain Structure: How Can Cognitive Neuroimaging Succeed?** *PERSPECTIVES ON PSYCHOLOGICAL SCIENCE*
Poldrack, R. A.
2010; 5 (6): 753-761
- **Neurocognitive Phenotypes and Genetic Dissection of Disorders of Brain and Behavior** *NEURON*

- Congdon, E., Poldrack, R. A., Freimer, N. B.
2010; 68 (2): 218-230
- **Facilitating Memory for Novel Characters by Reducing Neural Repetition Suppression in the Left Fusiform Cortex** *PLOS ONE*
Xue, G., Mei, L., Chen, C., Lu, Z., Poldrack, R. A., Dong, Q.
2010; 5 (10)
 - **Detecting network modules in fMRI time series: A weighted network analysis approach** *NEUROIMAGE*
Mumford, J. A., Horvath, S., Oldham, M. C., Langfelder, P., Geschwind, D. H., Poldrack, R. A.
2010; 52 (4): 1465-1476
 - **Towards an Ontology of Cognitive Control** *TOPICS IN COGNITIVE SCIENCE*
Lenartowicz, A., Kalar, D. J., Congdon, E., Poldrack, R. A.
2010; 2 (4): 678-692
 - **Everything you never wanted to know about circular analysis, but were afraid to ask** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Kriegeskorte, N., Lindquist, M. A., Nichols, T. E., Poldrack, R. A., Vul, E.
2010; 30 (9): 1551-1557
 - **Neural Components Underlying Behavioral Flexibility in Human Reversal Learning** *CEREBRAL CORTEX*
Ghahremani, D. G., Monterosso, J., Jentsch, J. D., Bilder, R. M., Poldrack, R. A.
2010; 20 (8): 1843-1852
 - **Decoding developmental differences and individual variability in response inhibition through predictive analyses across individuals** *FRONTIERS IN HUMAN NEUROSCIENCE*
Cohen, J. R., Asarnow, R. F., Sabb, F. W., Bilder, R. M., Bookheimer, S. Y., Knowlton, B. J., Poldrack, R. A.
2010; 4
 - **Inhibitory Motor Control in Response Stopping and Response Switching** *JOURNAL OF NEUROSCIENCE*
Kenner, N. M., Mumford, J. A., Hommer, R. E., Skup, M., Leibenluft, E., Poldrack, R. A.
2010; 30 (25): 8512-8518
 - **Interpreting Developmental Changes in Neuroimaging Signals** *HUMAN BRAIN MAPPING*
Poldrack, R. A.
2010; 31 (6): 872-878
 - **Reward Processing in Autism** *AUTISM RESEARCH*
Scott-Van Zeeland, A. A., Dapretto, M., Ghahremani, D. G., Poldrack, R. A., Bookheimer, S. Y.
2010; 3 (2): 53-67
 - **Common and Dissociable Prefrontal Loci Associated with Component Mechanisms of Analogical Reasoning** *CEREBRAL CORTEX*
Cho, S., Moody, T. D., Fernandino, L., Mumford, J. A., Poldrack, R. A., Cannon, T. D., Knowlton, B. J., Holyoak, K. J.
2010; 20 (3): 524-533
 - **Six problems for causal inference from fMRI** *NEUROIMAGE*
Ramsey, J. D., Hanson, S. J., Hanson, C., Halchenko, Y. O., Poldrack, R. A., Glymour, C.
2010; 49 (2): 1545-1558
 - **Striatal Dopamine D-2/D-3 Receptor Availability Is Reduced in Methamphetamine Dependence and Is Linked to Impulsivity** *JOURNAL OF NEUROSCIENCE*
Lee, B., London, E. D., Poldrack, R. A., Farahi, J., Nacca, A., Monterosso, J. R., Mumford, J. A., Bokarius, A. V., Dahlbom, M., Mukherjee, J., Bilder, R. M., Brody, A. L., Mandelkern, et al
2009; 29 (47): 14734-14740
 - **PHENOMICS: THE SYSTEMATIC STUDY OF PHENOTYPES ON A GENOME-WIDE SCALE** *NEUROSCIENCE*
Bilder, R. M., Sabb, F. W., Cannon, T. D., London, E. D., Jentsch, J. D., Parker, D. S., Poldrack, R. A., Evans, C., Freimer, N. B.
2009; 164 (1): 30-42
 - **CHALLENGES IN PHENOTYPE DEFINITION IN THE WHOLE-GENOME ERA: MULTIVARIATE MODELS OF MEMORY AND INTELLIGENCE** *NEUROSCIENCE*
Sabb, F. W., Burggren, A. C., Higier, R. G., Fox, J., He, J., Parker, D. S., Poldrack, R. A., Chu, W., Cannon, T. D., Freimer, N. B., Bilder, R. M.

2009; 164 (1): 88-107

- **Functional MRI at the crossroads** *INTERNATIONAL JOURNAL OF PSYCHOPHYSIOLOGY*
Van Horn, J. D., Poldrack, R. A.
2009; 73 (1): 3-9
- **Independence in ROI analysis: where is the voodoo?** *SOCIAL COGNITIVE AND AFFECTIVE NEUROSCIENCE*
Poldrack, R. A., Mumford, J. A.
2009; 4 (2): 208-213
- **CNTRICS Final Task Selection: Executive Control** *SCHIZOPHRENIA BULLETIN*
Barch, D. M., Braver, T. S., Carter, C. S., Poldrack, R. A., Robbins, T. W.
2009; 35 (1): 115-135
- **Cognitive ontologies for neuropsychiatric phenomics research.** *Cognitive neuropsychiatry*
Bilder, R. M., Sabb, F. W., Parker, D. S., Kalar, D., Chu, W. W., Fox, J., Freimer, N. B., Poldrack, R. A.
2009; 14 (4-5): 419-450
- **Neural Substrates for Reversing Stimulus-Outcome and Stimulus-Response Associations** *JOURNAL OF NEUROSCIENCE*
Xue, G., Ghahremani, D. G., Poldrack, R. A.
2008; 28 (44): 11196-11204
- **Common neural substrates for inhibition of spoken and manual responses** *CEREBRAL CORTEX*
Xue, G., Aron, A. R., Poldrack, R. A.
2008; 18 (8): 1923-1932
- **The role of fMRI in Cognitive Neuroscience: where do we stand?** *CURRENT OPINION IN NEUROBIOLOGY*
Poldrack, R. A.
2008; 18 (2): 223-226
- **Diffusion tensor imaging of the superior longitudinal fasciculus and working memory in recent-onset schizophrenia** *BIOLOGICAL PSYCHIATRY*
Karlsgodt, K. H., van Erp, T. G., Poldrack, R. A., Bearden, C. E., Nuechterlein, K. H., Cannon, T. D.
2008; 63 (5): 512-518
- **Automaticity in motor sequence learning does not impair response inhibition** *PSYCHONOMIC BULLETIN & REVIEW*
Cohen, J. R., Poldrack, R. A.
2008; 15 (1): 108-115
- **Automatic independent component labeling for artifact removal in fMRI** *NEUROIMAGE*
Tohka, J., Foerde, K., Aron, A. R., Tom, S. M., Toga, A. W., Poldrack, R. A.
2008; 39 (3): 1227-1245
- **Construction of a 3D probabilistic atlas of human cortical structures** *NEUROIMAGE*
Shattuck, D. W., Mirza, M., Adisetiyo, V., Hojatkashani, C., Salamon, G., Narr, K. L., Poldrack, R. A., Bilder, R. M., Toga, A. W.
2008; 39 (3): 1064-1080
- **Category learning and the memory systems debate** *NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS*
Poldrack, R. A., Foerde, K.
2008; 32 (2): 197-205
- **Selective corticostriatal dysfunction in schizophrenia: Examination of motor and cognitive skill learning** *NEUROPSYCHOLOGY*
Foerde, K., Poldrack, R. A., Knowlton, B. J., Sabb, F. W., Bookheimer, S. Y., Bilder, R. M., Guthrie, D., Granholm, E., Nuechterlein, K. H., Marder, S. R., Asarnow, R. F.
2008; 22 (1): 100-109
- **The neural substrates of visual perceptual learning of words: Implications for the visual word form area hypothesis** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Xue, G., Poldrack, R. A.
2007; 19 (10): 1643-1655
- **In praise of tedious anatomy** *NEUROIMAGE*

-
- Devlin, J. T., Poldrack, R. A.
2007; 37 (4): 1033-1041
- **Modeling group fMRI data** *SOCIAL COGNITIVE AND AFFECTIVE NEUROSCIENCE*
Mumford, J. A., Poldrack, R. A.
2007; 2 (3): 251-257
 - **Secondary-task effects on classification learning** *MEMORY & COGNITION*
Foerde, K., Poldrack, R. A., Knowlton, B. J.
2007; 35 (5): 864-874
 - **Triangulating a cognitive control network using diffusion-weighted magnetic resonance imaging (MRI) and functional MRI** *JOURNAL OF NEUROSCIENCE*
Aron, A. R., Behrens, T. E., Smith, S., Frank, M. J., Poldrack, R. A.
2007; 27 (14): 3743-3752
 - **Region of interest analysis for fMRI** *SOCIAL COGNITIVE AND AFFECTIVE NEUROSCIENCE*
Poldrack, R. A.
2007; 2 (1): 67-70
 - **Elaborative verbal encoding and altered anterior parahippocampal activation in adolescents and young adults at genetic risk for schizophrenia using fMRI** *BIOLOGICAL PSYCHIATRY*
Thermenos, H. W., Seidman, L. J., Poldrack, R. A., Peace, N. K., Koch, J. K., Faraone, S. V., Tsuang, M. T.
2007; 61 (4): 564-574
 - **The neural basis of loss aversion in decision-making under risk** *SCIENCE*
Tom, S. M., Fox, C. R., Trepel, C., Poldrack, R. A.
2007; 315 (5811): 515-518
 - **Modulation of competing memory systems by distraction** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Foerde, K., Knowlton, B. J., Poldrack, R. A.
2006; 103 (31): 11778-11783
 - **Altered brain activation in dorsolateral prefrontal cortex in adolescents and young adults at genetic risk for schizophrenia: An fMRI study of working memory** *SCHIZOPHRENIA RESEARCH*
Seidman, L. J., Thermenos, H. W., Poldrack, R. A., Peace, N. K., Koch, J. K., Faraone, S. V., Tsuang, M. T.
2006; 85 (1-3): 58-72
 - **Ventral-striatal/nucleus-accumbens sensitivity to prediction errors during classification learning** *HUMAN BRAIN MAPPING*
Rodriguez, P. F., Aron, A. R., Poldrack, R. A.
2006; 27 (4): 306-313
 - **Cortical and subcortical contributions to stop signal response inhibition: Role of the subthalamic nucleus** *JOURNAL OF NEUROSCIENCE*
Aron, A. R., Poldrack, R. A.
2006; 26 (9): 2424-2433
 - **Long-term test-retest reliability of functional MRI in a classification learning task** *NEUROIMAGE*
Aron, A. R., Gluck, M. A., Poldrack, R. A.
2006; 29 (3): 1000-1006
 - **Can cognitive processes be inferred from neuroimaging data?** *TRENDS IN COGNITIVE SCIENCES*
Poldrack, R. A.
2006; 10 (2): 59-63
 - **Hormonal cycle modulates arousal circuitry in women using functional magnetic resonance imaging** *JOURNAL OF NEUROSCIENCE*
Goldstein, J. M., Jerram, M., Poldrack, R., Ahern, T., Kennedy, D. N., Seidman, L. J., Makris, N.
2005; 25 (40): 9309-9316
 - **Imaging phonology without print: Assessing the neural correlates of phonemic awareness using fMRI** *NEUROIMAGE*
Katzir, T., Misra, M., Poldrack, R. A.

2005; 27 (1): 106-115

- **Sex differences in prefrontal cortical brain activity during fMRI of auditory verbal working memory** *NEUROPSYCHOLOGY*
Goldstein, J. M., Jerram, M., Poldrack, R., Anagnoson, R., Breiter, H. C., Makris, N., Goodman, J. M., Tsuang, M. T., Seidman, L. J.
2005; 19 (4): 509-519
- **The cognitive neuroscience of response inhibition: Relevance for genetic research in attention-deficit/hyperactivity disorder** *Conference on Advancing the Neuroscience of Attention-Deficit/Hyperactivity Disorder (ADHD)*
Aron, A. R., Poldrack, R. A.
ELSEVIER SCIENCE INC.2005: 1285-92
- **The neural correlates of motor skill automaticity** *JOURNAL OF NEUROSCIENCE*
Poldrack, R. A., Sabb, F. W., Foerde, K., Tom, S. M., Asarnow, R. F., Bookheimer, S. Y., Knowlton, B. J.
2005; 25 (22): 5356-5364
- **The effect of working memory performance on functional MRI in schizophrenia** *SCHIZOPHRENIA RESEARCH*
Therrien, H. W., Goldstein, J. M., Buka, S. L., Poldrack, R. A., Koch, J. K., Tsuang, M. T., Seidman, L. J.
2005; 74 (2-3): 179-194
- **Prospect theory on the brain? Toward a cognitive neuroscience of decision under risk** *COGNITIVE BRAIN RESEARCH*
Trepel, C., Fox, C. R., Poldrack, R. A.
2005; 23 (1): 34-50
- **Functional neuroanatomy of working memory in adults with attention-deficit/hyperactivity disorder** *BIOLOGICAL PSYCHIATRY*
Valera, E. M., Faraone, S. V., Biederman, J., Poldrack, R. A., Seidman, L. J.
2005; 57 (5): 439-447
- **Medial temporal and prefrontal lobe activation during verbal encoding following glucose ingestion in schizophrenia: A pilot fMRI study** *NEUROBIOLOGY OF LEARNING AND MEMORY*
Stone, W. S., Therrien, H. W., Tarbox, S. I., Poldrack, R. A., Seidman, L. J.
2005; 83 (1): 54-64
- **How do memory systems interact? Evidence from human classification learning** *NEUROBIOLOGY OF LEARNING AND MEMORY*
Poldrack, R. A., Rodriguez, P.
2004; 82 (3): 324-332
- **Human midbrain sensitivity to cognitive feedback and uncertainty during classification learning** *JOURNAL OF NEUROPHYSIOLOGY*
Aron, A. R., Shohamy, D., Clark, J., Myers, C., Gluck, M. A., Poldrack, R. A.
2004; 92 (2): 1144-1152
- **Cortico-striatal contributions to feedback-based learning: converging data from neuroimaging and neuropsychology** *BRAIN*
Shohamy, D., Myers, C. E., Grossman, S., Sage, J., Gluck, M. A., Poldrack, R. A.
2004; 127: 851-859
- **Inhibition and the right inferior frontal cortex** *TRENDS IN COGNITIVE SCIENCES*
Aron, A. R., Robbins, T. W., Poldrack, R. A.
2004; 8 (4): 170-177
- **Functional magnetic resonance imaging during auditory verbal working memory in nonpsychotic relatives of persons with schizophrenia: A pilot study** *BIOLOGICAL PSYCHIATRY*
Therrien, H. W., Seidman, L. J., Breiter, H., Goldstein, J. M., Goodman, J. M., Poldrack, R., Faraone, S. V., Tsuang, M. T.
2004; 55 (5): 490-500
- **Neural systems for rapid automatized naming in skilled readers: Unraveling the RAN-reading relationship** *SCIENTIFIC STUDIES OF READING*
Misra, M., Katzir, T., Wolf, M., Poldrack, R. A.
2004; 8 (3): 241-256
- **Pediatric functional magnetic resonance imaging: progress and challenges.** *Topics in magnetic resonance imaging*
Poldrack, R. A., Paré-Blagoev, E. J., Grant, P. E.
2002; 13 (1): 61-70

- **Interactive memory systems in the human brain** *NATURE*
Poldrack, R. A., Clark, J., Pare-Blagoev, E. J., Shohamy, D., Moyano, J. C., Myers, C., Gluck, M. A.
2001; 414 (6863): 546-550
- **Recovering meaning: Left prefrontal cortex guides controlled semantic retrieval** *NEURON*
Wagner, A. D., Pare-Blagoev, E. J., Clark, J., Poldrack, R. A.
2001; 31 (2): 329-338
- **Priming of new associations in reading time: What is learned?** *PSYCHONOMIC BULLETIN & REVIEW*
Poldrack, R. A., COHEN, N. J.
1997; 4 (3): 398-402
- **Fluency and response speed in recognition judgments** *MEMORY & COGNITION*
Poldrack, R. A., Logan, G. D.
1997; 25 (1): 1-10
- **Memory for items and memory for relations in the procedural/declarative memory framework** *MEMORY*
COHEN, N. J., Poldrack, R. A., EICHENBAUM, H.
1997; 5 (1-2): 131-178
- **ON THE REPRESENTATIONAL COMPUTATIONAL PROPERTIES OF MULTIPLE MEMORY-SYSTEMS** *BEHAVIORAL AND BRAIN SCIENCES*
Poldrack, R. A., COHEN, N. J.
1994; 17 (3): 416-417