

# Angela R. Laird, Ph.D.

## Curriculum Vitae

### Contact Information

#### Address

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### Education

- Ph.D. University of Wisconsin, Madison, WI, Physics, December 2002  
Functional Magnetic Resonance Imaging (fMRI) Methods
- M.S. University of Wisconsin, Madison, WI, Physics, May 2001
- B.S. Florida State University, Tallahassee, FL, Physics, May 1998

### Employment

- 2005-present Assistant Professor Research (Radiology), Research Imaging Center, University of Texas Health Science Center, San Antonio, TX
- 2004-2005 Instructor (Radiology), Research Imaging Center, University of Texas Health Science Center, San Antonio, TX
- 2003-2004 Postdoctoral Fellow, Neuroinformatics and Neuroimaging, Advisor: Dr. Peter Fox, Research Imaging Center, University of Texas Health Science Center, San Antonio, TX

### Honors and Awards

- 2006 Paper of the Year, Organization for Human Brain Mapping
- 2002 Hirschfelder Award, University of Wisconsin, Madison, WI
- 2002 IEEE EMBS-BMES Special Travel Award for Presenting Authors
- 2001 UW-Madison Graduate Student Council Vilas Travel Award

- 2000 Committee on Institutional Cooperation (CIC) Women in Science and Engineering (WISE) Travel Grant  
1998 Chen Distinguished Graduate Fellowship  
1998 Van Vleck Fellowship for Graduate Students in Physics

### **Consulting**

2009-present Institute for Neurocognitive Science and Technology, Mississippi State University, Starkville, MS

### **Professional Associations**

Member, Organization of Human Brain Mapping (OHBM)  
Member, International Society of Magnetic Resonance in Medicine (ISMRM)  
Member, American Physical Society (APS)

### **Journal Reviewing and Editing**

#### Guest Editor

Lancaster JL, Laird AR, Fox PT, Special Issue on Meta-Analysis. Human Brain Mapping, Volume 25, Issue 1, 2005.

#### Reviewer *Ad hoc*

Human Brain Mapping; NeuroImage; Medical Physics; Neuroinformatics; Neuroreport; Cognitive, Affective, and Behavioral Neuroscience; Biological Psychiatry; Cerebral Cortex; American Journal of Psychiatry

### **Service**

- 2007-present Member, Committee on Graduate Studies, Radiology, University of Texas Health Science Center, San Antonio, TX
- 2008 March Panelist on Women's Forum, "Flourishing in a Competitive World", Texas Lutheran University, Seguin, TX
- 2006 Feb Educational outreach to students in the gifted/talented program at Carlos Coon Elementary School
- 2005 Nov Collaborator on the Inside Story: Physics in Medicine, Einstein Year Outreach Program, Institute of Physics and Medical Research Council, London, UK
- 2005-2007 Meals on Wheels, weekly meal delivery to homebound citizens in the local community, San Antonio, TX

## Teaching

“Introduction to Human Neuroscience” (HON 3253), University of Texas San Antonio, Co-Instructor: 2008, 2009

“Mind & Brain: Meta-Analysis in Cognitive Neuroimaging” (INTD 5046), University of Texas Health Science Center San Antonio, Instructor: 2006, 2007

“Mind & Brain: Meta-Analysis in Cognitive Neuroimaging” (BIO 5046/PSY 6093), University of Texas San Antonio, Co-Instructor: 2004, 2005

## Media and Software Development

2003-present Supervision of the development, maintenance, and support of the software packages and databasing tools distributed through the BrainMap project on neuroinformatics in neuroimaging (<http://brainmap.org>)

## Staff Supervised

2009-present Kimberly Ray, Research Assistant I  
2008-present Sabina Gonzales, Research Assistant I  
2004-present Karl Li, Research Assistant I  
2004-present Angela Uecker, Programmer Analyst III  
2004-present Mick Fox, Programmer Analyst III  
2007-2009 Sarah Thelen, Research Assistant I  
2007-2008 Jacob Robbins, Research Assistant I  
2006-2007 Justin Clemens, Research Assistant I

## Research Support

### Current

1 R01 MH084812-01 (PI: Laird)  
“Developing a Cognitive Paradigm Ontology: BrainMap and BIRN Integration”  
07/01/09 – 06/30/12      \$225,197      2.4 calendar months

1 R01 MH074457-01A1 (PI: Fox)  
“Meta-Analysis in Human Brain Mapping”  
09/15/06 – 08/31/10      \$419,243      4.8 calendar months

5 R01 DC001150-16A1 (PI: Ramig)  
“Efficacy of Voice Treatment for Parkinson’s Disease”  
09/20/07 – 08/31/12      \$536,458 (94,907)      0.6 calendar months

1 R21 DC009467-01 (PI: Narayana)  
“Expanding a Neural Model of Speech Using Virtual Lesions and Connectivity Studies”

12/01/08 – 11/30/10      \$175,000      0.6 calendar months

Department of Defense (PI: Fox)  
“STRONGSTAR NeuroImaging Core”

09/01/08 – 08/31/13      \$440,734      1.8 calendar months

2 R01 DC006243 (PI: Larson)/(Sub-contract PI: Robin)  
“Sensory Mechanisms of Voice Control”

04/01/09 – 03/30/14      (\$190,693)      0.96 calendar months

1 R21 NS065431 (PI: Szabo)

“Multimodal Evaluation of Networks Underlying Photosensitive Epilepsy in Baboons”

06/01/09 – 05/31/11      \$408,275      0.6 calendar months

#### Pending

NSF (PI: Narayana/Kiran)

“Collaborative Research: A multi-modal imaging approach to quantifying neural systems in lexical semantic processing in bilinguals”

08/01/09 – 07/31/12      \$270,467      0.6 calendar months

#### Completed

Medical Research Fund (MeRF), University of Texas Health Science Center

“Meta-analysis in cognitive neuroimaging”

07/01/04 – 06/30/05      \$40,000

#### **Invited Lectures and Workshops**

2009 Invited Lecture, “Methodological Advances in Functional Neuroimaging: The State of the Science”, American Psychological Association, Toronto, Canada, August 9

2009 Morning Workshop, “Neurocognitive ontologies: Methods for sharing and integration of human brain data”, Organization for Human Brain Mapping, San Francisco, CA, June 20

- 2008 Invited Lecture, "Mathematics in Brain Imaging", Institute for Pure and Applied Mathematics Summer School, University of California, Los Angeles, CA, July 24
- 2008 Invited Lecture, Bio-Imaging Research Center, University of Georgia, Athens, GA, March 18
- 2007 Invited Lecture, Institute of Imaging Science, Vanderbilt University, Nashville, TN, December 14
- 2006 Invited Lecture, Biology and Physics Departments Seminar Series, Texas Lutheran University, Seguin, TX, April 28
- 2003 Invited Lecture, Physics Department, Trinity University, San Antonio, TX, October
- 2003 Invited Lecture, Radiological Sciences Laboratory, Stanford University, Palo Alto, CA, September

### **Journal Articles**

1. Robinson JL, Laird AR, Glahn DC, Lovallo WR, Fox PT. Meta-analytic connectivity modelling: Delineating the functional connectivity of the human amygdala. *Hum Brain Mapp*, In Press.
2. Smith SM, Fox PT, Miller KL, Glahn DC, Fox PM, Mackay CE, Filippini N, Watkins KE, Toro R, Laird AR, Beckmann CF. Correspondence of the brain's functional architecture during activation and rest. *Proc Natl Acad Sci USA* 106:13040-13045, 2009.
3. Laird AR, Eickhoff SB, Kurth F, Fox PM, Uecker AM, Turner JA, Robinson JL, Lancaster JL, Fox PT. ALE meta-analysis workflows via the BrainMap database: Progress towards a probabilistic functional brain atlas. *Front Neuroinformatics* 3, 23, 2009.
4. Laird AR, Lancaster JL, Fox PT. Lost in localization? The focus is meta-analysis. *Neuroimage*, 48, 18-20, 2009.
5. Eickhoff SB, Laird AR, Grefkes C, Wang LE, Zilles K, Fox PT. Coordinate-based activation likelihood estimation meta-analysis of neuroimaging data: A random-effects approach based on empirical estimates of spatial uncertainty. *Hum Brain Mapp* 30, 2907-2926, 2009.

6. Minzenberg MJ, Laird AR, Thelen SM, Carter CS, Glahn DC. Meta-analysis of 41 functional neuroimaging studies of executive function in schizophrenia. *Arch Gen Psychiatry* 66, 811-822, 2009.
7. Ragland JD, Laird AR, Ranganath CS, Blumenfeld RS, Gonzales SM, Glahn DC. Prefrontal activation deficits during episodic memory in schizophrenia. *Am J Psychiatry* 166, 863-874, 2009.
8. Brown S, Laird AR, Pfordresher PQ, Thelen SM, Turkeltaub P, Liotti M. The somatotopy of speech: Phonation and articulation in the human motor cortex. *Brain Cogn* 70, 31-41, 2009.
9. Price LR, Laird AR, Fox PT. Modeling dynamic functional neuroimaging data using structural equation modeling. *Structural Equation Modeling* 16, 147-162, 2009.
10. Bug WJ, Ascoli GA, Grethe JS, Gupta A, Fennema-Notestine C, Laird AR, Larson SD, Rubin D, Shepherd GM, Turner JA, Martone ME. The NIFSTD and BIRNLex vocabularies: Building comprehensive ontologies for neuroscience. *Neuroinformatics* 6, 175-194, 2008.
11. Glahn DC, Laird AR, Ellison-Wright I, Thelen SM, Robinson JL, Lancaster JL, Bullmore E, Fox PT. Meta-analysis of gray matter anomalies in schizophrenia: Application of anatomic likelihood estimation and network analysis. *Biol Psychiatry* 64, 774-781, 2008.
12. Cykowski M, Coulon O, Kochunov PV, Amunts K, Lancaster JL, Laird AR, Glahn DC, Fox PT. The central sulcus: An observer-independent characterization of sulcal landmarks and depth asymmetry. *Cereb Cortex* 18, 1999-2009, 2008.
13. Witt ST, Laird AR, Meyerand ME. Functional neuroimaging correlates of finger tapping task variations: An ALE meta-analysis. *Neuroimage* 42, 343-356, 2008.
14. Ellison-Wright I, Glahn DC, Laird AR, Thelen SM, Bullmore ET. The anatomy of first episode and chronic schizophrenia: An ALE meta-analysis. *Am J Psychiatry* 165, 1015-1023, 2008.
15. Laird AR, Robbins JM, Li K, Price LR, Cykowski MD, Narayana S, Laird RW, Franklin C, Fox PT. Modeling motor connectivity using TMS/PET and structural equation modeling. *Neuroimage* 41, 424-436, 2008.

16. Fitzgerald PB, Laird AR, Maller JJ, Daskalakis ZJ. A meta-analytic study of changes in brain activation in depression. *Hum Brain Mapp* 29, 683-695, 2008.
17. Menzies LAC, Chamberlain SR, Laird AR, Thelen SM, Sahakian BJ, Bullmore ET. Integrating evidence from neuroimaging and neuropsychological studies of obsessive compulsive disorder: The orbitofronto-striatal model revisited. *Neurosci Biobehav Rev* 32, 525-549, 2008.
18. Kochunov P, Thompson PM, Lancaster JL, Bartzokis G, Smith S, Coyle T, Royall DR, Laird A, Fox PT. Relationship between white matter fractional anisotropy and other indices of cerebral health in normal aging: Tract-based spatial statistics study of aging. *Neuroimage* 35, 478-87, 2007.
19. McMillan KM, Rogers BP, Koay CG, Laird AR, Price RR, Meyerand ME. An objective method for combining multi-parametric MRI datasets to characterize malignant tumors. *Med Phys*, 34, 1053-1061, 2007.
20. McMillan KM, Laird AR, Witt ST, Meyerand ME. Self-paced working memory: Validation of the n-back paradigm using meta-analysis. *Brain Research*, 1139, 133-142, 2007.
21. McMillan KM, Rogers BP, Field AS, Laird AR, Fine JP, Meyerand ME. Physiologic characterisation of glioblastoma multiforme using MRI-based hypoxia mapping, chemical shift imaging, perfusion, and diffusion maps. *J Clin Neurosci* 13, 811-817, 2006.
22. Kochunov P, Lancaster JL, Glahn DC, Purdy D, Laird AR, Gao F, Fox P. Retrospective motion correction protocol for high-resolution anatomical MRI. *Hum Brain Mapp*, 27, 957-962, 2006.
23. Fitzgerald PB, Oxley TJ, Laird AR, Kulkarni J, Egan GF, Daskalakis ZJ. An analysis of functional neuroimaging studies of dorsolateral prefrontal cortical activity in depression. *Psychiatry Research: Neuroimaging* 148, 33-45, 2006.
24. Fox PT, Laird AR, Lancaster JL. Coordinate-based voxel-wise meta-analysis: Dividends of spatial normalization. A report of a virtual workshop. *Hum Brain Mapp* 25, 1-5, 2005.
25. Laird AR, McMillan KM, Lancaster JL, Kochunov P, Turkeltaub PE, Pardo JV, Fox PT. A comparison of label-based review and activation likelihood estimation in the Stroop task. *Hum Brain Mapp* 25, 6-21, 2005.

26. Owen AM, McMillan KM, Laird AR, Bullmore E. N-back working memory paradigm: A meta-analysis of normative functional neuroimaging studies. *Hum Brain Mapp* 25, 46-59, 2005.
27. Glahn DC, Ragland JD, Abramoff A, Barrett J, Laird AR, Bearden CE, Velligan DI. Beyond hypofrontality: A quantitative meta-analysis of functional neuroimaging studies of working memory in schizophrenia. *Hum Brain Mapp* 25, 60-69, 2005.
28. Price CJ, Devlin JT, Moore CJ, Morton C, Laird AR. Meta-analyses of object naming: Effect of baseline. *Hum Brain Mapp* 25, 70-82, 2005.
29. Tan L-H, Laird AR, Li K, Fox PT. Neuroanatomical correlates of phonological processing of Chinese characters and alphabetic words: A meta-analysis. *Hum Brain Mapp* 25, 83-91, 2005.
30. Brown S, Laird AR, Ingham RJ, Ingham JC, Fox PT. Stuttered and fluent speech production: An ALE meta-analysis of functional neuroimaging studies. *Hum Brain Mapp* 25, 105-117, 2005.
31. Petacchi A, Laird AR, Fox PT, Bower JM. Cerebellum and auditory function: An ALE meta-analysis of functional neuroimaging studies. *Hum Brain Mapp* 25, 118-128, 2005.
32. Farrell MJ, Laird AR, Egan GF. Brain activity associated with painfully hot stimuli applied to the upper limb: A meta-analysis. *Hum Brain Mapp* 25, 129-139, 2005.
33. Grosbras M-H, Laird AR, Paus T. Cortical regions involved in eye movements, shifts of attention, and gaze perception. *Hum Brain Mapp* 25, 140-154, 2005.
34. Laird AR, Fox M, Price CJ, Glahn DC, Uecker AM, Lancaster JL, Turkeltaub PE, Kochunov P, Fox PT. ALE meta-analysis: Controlling the false discovery rate and performing statistical contrasts. *Hum Brain Mapp* 25, 155-164, 2005.
35. Lancaster JL, Laird AR, Fox M, Glahn DE, Fox PT. Automated analysis of meta-analysis networks. *Hum Brain Mapp* 25, 174-184, 2005.
36. Fox PT, Laird AR, Fox SP, Fox M, Uecker AM, Crank M, Koenig SF, Lancaster JL. BrainMap taxonomy of experimental design: Description and evaluation. *Hum Brain Mapp* 25, 185-198, 2005.
37. Laird AR, Lancaster JL, Fox PT. BrainMap: The social evolution of a functional neuroimaging database. *Neuroinformatics* 3, 65-78, 2005.

38. Kochunov P, Lancaster JL, Hardies J, Thompson P, Woods R, Cody J, Hale D, Laird AR, Fox PT. Mapping structural differences of the corpus callosum in individuals with 18q deletions using targetless regional spatial normalization. *Hum Brain Mapp* 24, 325-331, 2005.
39. Laird AR, Rogers BP, Meyerand ME. Comparison of Fourier and wavelet resampling methods. *Magn Reson Med* 51: 418-422, 2004.
40. Laird AR, Rogers BP, Carew JD, Arfanakis K, Moritz CM, Meyerand ME. Characterizing instantaneous phase relationships in whole-brain fMRI activation data, *Hum Brain Mapp* 16:71-80, 2002.

### **Submitted or In Preparation**

1. Laird AR, Eickhoff SB, Li K, Robin DA, Glahn DC, Fox PT. Investigating the functional heterogeneity of the default mode network using coordinate-based meta-analytic modeling. Submitted to *J Neurosci*.
2. Laird AR, Robinson JL, McMillan KM, Tordesillas-Gutierrez D, Thelen SM, Ray KL, Fox PT, Lancaster JL. Comparison of the disparity between Talairach and MNI coordinates in functional neuroimaging data: Validation of the Lancaster transform. Submitted to *Neuroimage*.
3. Glahn DC, Winkler AM, Kochunov P, Almasy L, Duggirala R, Carless M, Olvera R, Laird AR, Smith SM, Beckmann CF, Fox PT, Blangero J. Genetic control over the resting brain. Submitted to *Proc Natl Acad Sci USA*.
4. Eickhoff SB, Jbabdi S, Caspers S, Laird Ar, Fox PT, Zilles K. Anatomical and functional connectivity of cytoarchitectonic areas within the human secondary somatosensory cortex. Submitted to *J Neurosci*.
5. Laird AR, Li K, Narayana S, Laird RW, Price LR, Franklin C, Xiong J, Fox PT. Motor learning changes in effective connectivity observed with TMS/PET and structural equation modeling. In Preparation.
6. Ramage AE, Laird AR, Acheson A, Fox PT. Neuroimaging network analysis of post-traumatic stress disorder. In Preparation.
7. Li K, Price LR, Fox PT, Laird AR. A novel method of analyzing functional magnetic resonance imaging data using structural equation modeling. In Preparation.

8. Flagmeier SG, Laird AR, Ballard KT, Fox PT, Robin DA. Neural control of speech versus volitional non-speech oral movements as uncovered by functional brain imaging: A meta-analytic approach. In Preparation.
9. Nickl-Jockschat T, Habel U, Michel TM, Zilles K, Laird AR, Fox PT, Schneider F, Amunts K, Eickhoff SB. Brain structure anomalies in autism spectrum disorder (ASD) and their relation to age: A meta-analysis of VBM studies using anatomic likelihood estimation (ALE). In Preparation.

### **Book Chapters**

1. Laird AR, Lancaster JL, Fox PT. Functional brain mapping and activation likelihood estimation meta-analysis. In: Dhawan AP, Huang HK, Kim DS, editors. Principles and Recent Advances in Medical Imaging and Image Analysis. Hackensack, New Jersey: World Scientific, May 2008.

### **Conference Abstracts**

1. Laird AR, Li K, Narayana S, Laird RW, Price L, Xiong J, Fox PT. Modeling motor learning connectivity using coordinate-based meta-analysis and TMS/PET. 43rd Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, USA, 2009.
2. Ragland JD, Laird AR, Ranganath CS, Blumenfeld RS, Gonzales SM, Glahn DC. Quantitative meta-analysis of episodic memory in schizophrenia reveals prominent prefrontal dysfunction. 64th Annual Conference, Society for Biological Psychiatry, Vancouver, Canada, 2009.
3. Smith SM, Laird AR, Glahn D, Fox PM, Mackay CE, Filippini N, Toro R, Fox PT, Beckmann CF. FMRI resting state networks match BrainMap activation networks. 15th Human Brain Mapping (HBM), San Francisco, California, 2009.
4. Price L, Laird AR, Fox PT. Deriving optimal neuroimaging models using Bayesian model averaging. 15th International Meeting of The Psychometric Society, Durham, New Hampshire, 2008.
5. Glahn DC, Laird AR, Ellison-Wright I, Thelen SM, Robinson JL, Lancaster JL, Bullmore E, Fox PT. Meta-analysis of gray matter anomalies in schizophrenia: Application of anatomic likelihood estimation and network analysis. 63rd Annual Conference, Society for Biological Psychiatry, Washington, D.C., 2008.
6. Minzenberg MJ, Laird AR, Thelen SM, Glahn DC, Carter CS. Meta-analysis of 41 functional neuroimaging studies of executive cognition reveals dysfunction in a general-purpose, frontal cortex-dependent cognitive control network in

schizophrenia. 63rd Annual Conference, Society for Biological Psychiatry, Washington D.C., 2008.

7. Laird AR, Fox PT. Meta-analysis of the default mode network: Connectivity patterns for activations and deactivations. 14th Human Brain Mapping (HBM), Melbourne, Australia, Poster 582 TH-PM, 2008.
8. Robinson JL, Laird AR, Glahn DC, Fox PT. Modeling functional connectivity of the amygdala: A meta-analytic approach. 14th Human Brain Mapping (HBM), Melbourne, Australia, Poster 546 TH-PM, 2008.
9. Robinson JL, Laird AR, McMillan KM, Tordesillas-Gutiérrez D, Thelen SM, Ray KL, Glahn DC, Fox PT, Lancaster JL. Comparison of Talairach and MNI coordinates in functional neuroimaging data: Validation of the icbm2tal transform. 14th Human Brain Mapping (HBM), Melbourne, Australia, Poster 508 T-PM, 2008.
10. Laird AR, Glahn DC, Thelen SM, Fox PM, Uecker AM, Lancaster JL, Fox PT. Meta-analysis of functional and structural neuroimaging data using the BrainMap database. 41st Annual Winter Conference on Brain Research, Snowbird, Utah, 2008.
11. Minzenberg MJ, Laird AR, Thelen SM, Glahn DC, Carter CS. Meta-analysis of 41 functional neuroimaging studies of executive cognition reveals dysfunction in a general-purpose frontal cortex-dependent cognitive control network in schizophrenia. 46th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Boca Raton, FL, 2007.
12. Laird AR, Witt ST, Meyerand ME, Fox PT. Finger tapping meta-analysis reveals segregations based on stimulus modality and complexity of tapping: Results from activation likelihood estimation (ALE) and fractional similarity network analysis (FSNA). 13th Human Brain Mapping (HBM), Chicago, USA, Poster 142 M-PM, 2007.
13. McMillan KM, Laird AR, Li K, Robbins JM, Laird RW, Fox PT. ALE meta-analysis and behavioral domain profile analysis reveal functional dissociations in letter fluency and verb generation tasks. 13th Human Brain Mapping (HBM), Chicago, USA, Poster 149 T-AM, 2007.
14. Laird AR, Robbins JM, Li K, Narayana S, Laird RW, Franklin C, Price L, Fox PT. Structural equation modeling of the efference copy network using TMS/PET. 13th Human Brain Mapping (HBM), Chicago, USA, Poster 274 M-PM, 2007.

15. Tordesillas-Gutierrez D, Laird AR, Robinson J, Glahn DC. Brain imaging studies of declarative memory: A meta-analysis of the pair-associated task. 13th Human Brain Mapping (HBM), Chicago, USA, 2007.
16. Quinones MP, Mayberg H, Laird AR. Coordinate-based meta-analyses of the neuro-circuitry of sadness and happiness using activation likelihood estimation (ALE). 13th Human Brain Mapping (HBM), Chicago, USA, 2007.
17. Turner JA, Fennema-Notestine C, Martone ME, Laird AR, Grethe JS, Bug W, Gupta A, Bean C. You say potato, I say potato: Ontological engineering applied within the Biomedical Informatics Research Network. Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, 2006.
18. Fox PT, Laird AR, Fox PM, Lancaster JL. Consensus imaging: Emerging methods for coordinate-based, voxel-wise meta-analysis in human functional brain mapping. 39th Annual Winter Conference on Brain Research, Steamboat Springs, Colorado, 2006.
19. Laird AR, Fox M, Price CJ, Glahn DC, Uecker AM, Lancaster JL, Turkeltaub PE, Kochunov P, Fox PT. Controlling the false discovery rate in activation likelihood estimation (ALE) meta-analyses. 11th Human Brain Mapping (HBM), Toronto, Canada, Poster 729, 2005.
20. McMillan KM, Laird AR, Meyerand ME. N-back: Self-paced design and ALE meta-analysis comparisons. 11th Human Brain Mapping (HBM), Toronto, Canada, Poster 370, 2005.
21. Laird AR, McMillan KM, Lancaster JL, Kochunov P, Turkeltaub PE, Pardo JV, Fox PT. Somatotopic mapping within the cingulate motor area: Evidence from an ALE meta-analysis of the Stroop task. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Miami, FL, 13:775, 2005.
22. McMillan KM, Laird AR, Marquez EC, Meyerand ME. Working memory using n-back: Self-paced paradigm and meta-analysis comparisons. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Miami, FL, 13:1445, 2005.
23. McMillan KM, Rogers BP, Field AS, Laird AR, Hayes LL, Mehta MP, Meyerand ME. Prediction of recurrence for glioblastoma multiforme using MRI-based hypoxia mapping, perfusion and diffusion maps. Workshop on Advances in Experimental and Clinical MR in Cancer Research, 134-135, 2004.
24. McMillan KM, Field AS, Rowley HA, Rogers BP, Laird AR, Meyerand ME. Utility of physiologic parameters in the diagnosis of GBM recurrence.

Workshop on Advances in Experimental and Clinical MR in Cancer Research, 136-137, 2004.

25. Laird AR, Lancaster JL, Fox PT. BrainMap: An environment for meta-analysis in functional neuroimaging research. 10th Human Brain Mapping (HBM), Budapest, Hungary, Poster WE218, 2004.
26. Laird AR, McMillan KM, Castillo R, Lancaster JL, Fox PT. A comparison of tabular-based meta-analysis and activation likelihood estimation in the Stroop task. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Kyoto, Japan, 12:1157, 2004.
27. McMillan KM, Laird AR, Castillo R, Lancaster JL, Fox PT. Functional localization of working memory: Activation likelihood estimation of the n-back task. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Kyoto, Japan, 12:401, 2004.
28. McMillan KM, Rogers BP, Field AS, Laird AR, Hayes LL, Mehta MP, Jaradat HA, Tome WA, Meyerand ME. Physiologic characterization of glioblastoma multiforme using MRI-based hypoxia mapping, chemical shift imaging, perfusion, and diffusion maps. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Kyoto, Japan, 12: 2061, 2004.
29. Laird AR, Rogers BP, Meyerand ME. Computation of coupling direction between motor cortex and cerebellum in fMRI motor task. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Toronto, Canada, 2003.
30. Laird AR, Rogers BP, Bach-y-Rita P, Meyerand ME. Synchronization in active voxels during functional magnetic resonance imaging. Society For Neuroscience Annual Meeting, Orlando, FL, 2002.
31. Laird AR, Rogers BP, Meyerand ME. Investigating the nonlinearity of fMRI activation data. 2nd Joint Meeting of the IEEE EMBS and the BMES, Houston, Texas, 2002.
32. Laird AR, Rogers BP, Meyerand ME. Cluster synchronization in functional magnetic resonance imaging. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Honolulu, Hawaii, 306, 2002.
33. Laird AR, Rogers BP, Meyerand ME. Preserving autocorrelations in fMRI with resampling techniques. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Honolulu, Hawaii, 309, 2002.

34. Laird AR, Rogers BP, Meyerand ME. Testing for nonlinearity in fMRI with surrogate data. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Honolulu, Hawaii, 1389, 2002.
35. Rogers BP, Carew JD, Laird AR, Meyerand ME. Path analysis of fMRI in bilateral language processing. 8th Human Brain Mapping (HBM), Sendai, Japan, Poster 10156, 2002.
36. Laird AR, Carew JD, Meyerand ME. Analysis of the instantaneous phase signal of an fMRI time series via the Hilbert transform. Conference Record of the 35th Asilomar Conference on Signals, Systems, and Computers, Vol. 2, 1677-1681, 2001.
37. Laird AR, Rogers BP, Carew JD, Arfanakis K, Moritz CH, Meyerand ME. Characterizing phase synchronization in whole-brain fMRI activation. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Glasgow, Scotland, 1716, 2001.
38. Laird AR, Rogers BP, Carew JD, Arfanakis K, Moritz CH, Meyerand ME. Phase synchronization: A method of detecting functional connectivity. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Glasgow, Scotland, 1721, 2001.
39. Rogers BP, Carew JD, Quigley MA, Laird AR, Arfanakis K, Moritz CH, Meyerand ME. Comparison of hybrid independent component analysis and simple regression of an event-related fMRI experiment. Proc. Int. Soc. for Mag. Res. in Med. (ISMRM), Glasgow, Scotland, 1731, 2001.
40. Laird AR, Rogers BP, Carew JD, Arfanakis K, Moritz CH, Meyerand ME. Characterizing phase synchronization in whole-brain fMRI activation. UW-Madison/Promega Symposium on Biological Imaging, 2001.