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EDUCATION

1997	Ph.D. Psychology (Perception)	University of California, Irvine, CA
1992	M.A. Social Sciences (Math. Behavioral Sciences)	University of California, Irvine, CA
1990	B.A. Psychology, & Mathematics (with Distinction)	Swarthmore College, PA

AREAS OF RESEARCH INTEREST

- Neuroimaging of psychological function
- Statistical methods for multimodal integration
- Integrating neuroimaging and genetics
- Knowledge representation of cognitive experimental data and results

EMPLOYMENT HISTORY

2010-present	Research Scientist, MIND Research Network, Albuquerque, NM
2009-2010	Assistant Professor in Residence, Department of Psychiatry and Human Behavior, University of California, Irvine
2006-2009	Project Scientist, Department of Psychiatry and Human Behavior, University of California, Irvine
2003-2010	Project Manager, Functional Imaging Biomedical Informatics Research Network (FBIRN)
2003-2006	Research Specialist, Department of Psychiatry and Human Behavior, School of Medicine, University of California, Irvine
1999-2003	Head, fMRI for Research. Long Beach VA Healthcare System, Long Beach, California Research Healthcare Specialist. Long Beach VA Healthcare System, Long Beach, California
1997-1999	Post-doctoral Research Fellow. Rutgers, The State University, Newark, New Jersey
1990-1997	Graduate Student Researcher. School of Social Sciences, University of California, Irvine

REFEREED PUBLICATIONS (CHRONOLOGICAL ORDER)

*Items denoted with a ** are those in which the first two authors shared primary responsibility for the manuscript.*

1. **Turner, J.**, & Braunstein, M. L. (1995). Size constancy in structure from motion. *Perception*, 24(10), 1155-1164.
2. **Turner, J.**, Braunstein, M. L., & Andersen, G. J. (1995). Detection of surfaces in structure from motion. *Journal of Experimental Psychology: Human Perception & Performance*, 21(4), 809-821.
3. **Turner, J.**, Braunstein, M. L., & Andersen, G. J. (1997). The relationship between binocular disparity and motion parallax in surface detection. *Perception and Psychophysics*, 59(3), 370-380.
4. Domini, F., Caudek, C., **Turner, J.**, & Favretto, A. (1998). Discriminating constant from variable angular

velocities in structure from motion. *Perception and Psychophysics*, 60(5), 747-760.

5. **Turner**, J. A., Lee, J. S., Martinez, O., Medlin, A. L., Schandler, S. L., & Cohen, M. J. (2001). Somatotopy of the motor cortex after long-term spinal cord injury or amputation. *IEEE Trans Neural Syst Rehabil Eng*, 9(2), 154-160.
6. **Turner**, J. A., Lee, J. S., Schandler, S. L., & Cohen, M. J. (2003). An fMRI investigation of hand representation in paraplegic humans. *Neurorehabil Neural Repair*, 17(1), 37-47.
7. **Turner**, J. A., Anderson, K. C., & Siegel, R. M. (2003). Cell responsiveness in macaque superior temporal polysensory area, measured by temporal discriminants. *Neural Computation*, 15, 2067-2090.
8. Siegel, R. M., Raffi, M., Phinney, R. E., **Turner**, J. A., & Jando, G. (2003). Functional architecture of eye position gain fields in visual association cortex of behaving monkey. *Journal of Neurophysiology*, 90(2), 1279-1294.
9. Lee, H., & **Turner**, J. (2004). Parallel reconstruction algorithms for MRIs. *Proceedings of the 3rd International Conference on Computer and Information Science (ICIS '04)*, 1, 55-62.
10. Fallon, J. H., Keator, D. B., Mbogori, J., **Turner**, J., & Potkin, S. G. (2004). Hostility differentiates the brain metabolic effects of nicotine. *Brain Res Cogn Brain Res*, 18(2), 142-148.
11. Lee, H., **Turner**, J. A., & Potkin, S. G. (2004). Scalable parallel reconstruction algorithm for magnetic resonance images. *Proceedings of the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications*, 1, 73-79.
12. Lee, H., **Turner**, J., & BIRN, F. (2004). Task distribution methods for the reconstruction of mr images. *Proceedings of the 5th International Conference on Parallel and Distributed Computing, Applications and Technologies*, 257-266.
13. Lacourse, M. G., **Turner**, J. A., Randolph-Orr, E. R., Schandler, S. P., & Cohen, M. J. (2004). Cerebral and cerebellar sensorimotor plasticity following motor imagery-based mental practice of a sequential movement. *Journal of Rehabilitation Research & Development*, 41(4), 505-524.
14. Cahill, L., Uncapher, M., Kilpatrick, L., Alkire, M., & **Turner**, J. (2004). Sex-related hemispheric lateralization of amygdala function in emotionally-influenced memory: An fMRI investigation. *Learning and Memory*, 11(3), 261-266.
15. Kim, S., Smyth, P., Stern, H., **Turner**, J., & BIRN, F. (2005). Parametric response surface models for analysis of multi-site fMRI data. *Proceedings of the 8th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 3749, 352-359.
16. Lee, H., **Turner**, J., Potkin, S., & BIRN, F. (2005). Calibration method of functional magnetic resonance images. *Proceedings of the 2005 International Conference Imaging Science, Systems, and Technology: Computer Graphics (CISST'05)*, 13-19.
17. **Turner**, J. A., Smyth, P., Macciardi, F., Fallon, J. H., Kennedy, J. L., & Potkin, S. G. (2006). Imaging phenotypes and genotypes in schizophrenia. *Neuroinformatics*, 4(1), 21-49.
18. **Turner**, J. A., Potkin, S. G., Brown, G. G., Keator, D. B., McCarthy, G., & Glover, G. H. (2007). Neuroimaging for the diagnosis and study of mental disorders. *IEEE Signal Processing Magazine*, 24(4), 112-117.
19. Friedman, L., Stern, H., Brown, G. G., Mathalon, D., **Turner**, J. A., Glover, G. H., Gollub, R. L.,

- Lauriello, J., Lim, K. O., Cannon, T., Greve, D. N., Bockholt, H. J., Belger, A., Mueller, B., Doty, M. J., He, J., Wells, W., Smyth, P. J., Pieper, S., Kim, S., Kubicki, M., Morris, S., Vangel, M., & Potkin, S. G. (2008). Test-retest and between-site reliability in a multicenter fMRI study. *Human Brain Mapping, 29*(8), 958-972.
20. Friedman, L., **Turner**, J. A., Stern, H., Mathalon, D. H., Trondsen, L., & Potkin, S. G. (2008). Chronic smoking and the BOLD response to a visual activation task and a breath hold task in patients with schizophrenia and healthy controls. *NeuroImage, 40*, 1181-1194.
 21. **Tura, E., **Turner**, J. A., Fallon, J. H., Kennedy, J. L., & Potkin, S. G. (2008). Multivariate analyses suggest genetic impacts on neurocircuitry in schizophrenia. *Neuroreport, 19*(6), 603-607.
 22. Bug, W., Ascoli, G. A., Grethe, J., Gupta, A., Fennema-Notestine, C., Laird, A., Larson, S., Rubin, D., Shepard, G. M., **Turner**, J. A., & Martone, M. E. (2008). The NIFSTD and BIRNLex vocabularies: Building comprehensive ontologies for neuroscience. *Journal of Neuroinformatics, 6*, 175-194.
 23. Segall, J. M., **Turner**, J. A., van Erp, T. G. M., White, T., Bockholt, H. J., Gollub, R. L., Ho, B. C., Magnotta, V., Jung, R. E., McCarley, R. W., Schultz, S. C., Lauriello, J., Clark, V. P., Voyvodic, J. T., Diaz, M., & Calhoun, V. D. (2009). Voxel-based morphometric multi-center collaborative study on schizophrenia. *Schizophrenia Bulletin, 35*(1), 82-95.
 24. Kim, D., Mathalon, D., Ford, J. M., Mannell, M., **Turner**, J. A., Brown, G., Belger, A., Gollub, R., Lauriello, J., Wible, C., O'Leary, D., McCarthy, G., Lim, K. O., Potkin, S. G., & Calhoun, V. D. (2009). Auditory oddball deficits in schizophrenia: An independent component analysis of the fMRI multisite function BIRN study. *Schizophrenia Bulletin, 35*(1), 67-81.
 25. **Potkin, S. G., **Turner**, J. A., Brown, G., McCarthy, G., Greve, D. N., Glover, G., Manoach, D., Belger, A., Wible, C., Ford, J. M., Mathalon, D., Gollub, R., Lauriello, J., O'Leary, D., Toga, A., Lim, K. O., & FBIRN. (2009). Working memory and DLPFC inefficiency in schizophrenia: The fBIRN study. *Schizophrenia Bulletin, 35*(1), 19-31.
 26. Ford, J. M., Roach, B., **Turner**, J. A., Brown, G., Greve, D. N., Wible, C., McCarthy, G., Lauriello, J., Belger, A., Mueller, B., Calhoun, V. D., Preda, A., Keator, D. B., O'Leary, D., Lim, K. O., Glover, G., Potkin, S. G., & Mathalon, D. H. (2009). Tuning in to the voices: A multi-site fMRI study of auditory hallucinations. *Schizophrenia Bulletin, 35*(1), 58-66.
 27. Brown, G. G., McCarthy, G., Bischoff-Grethe, A., Ozyurt, B., Greve, D. N., Potkin, S. G., **Turner**, J. A., Notestine, R., Calhoun, V. D., Ford, J. M., Mathalon, D., Manoach, D., Gadde, S., Glover, G. H., Wible, C., Belger, A., Gollub, R., Lauriello, J., O'Leary, D., Lim, K. O., & BIRN, F. (2009). Brain-performance correlates of working memory retrieval in schizophrenia: A cognitive modeling approach. *Schizophrenia Bulletin, 35*(1), 32-46.
 28. Wible, C. G., Lee, K., Molina, I., Preus, A. P., Roach, B., Ford, J. M., Mathalon, D. H., McCarthy, G., **Turner**, J. A., Potkin, S. G., O'Leary, D., Belger, A., Diaz, M., Voyvodic, J., Brown, G., Notestine, R., Greve, D. N., Lauriello, J., & FBIRN. (2009). FMRI activity correlated with auditory hallucinations during performance of a working memory task: Data from the fBIRN consortium study. *Schizophrenia Bulletin, 35*(1), 47-57.
 29. **Potkin, S. G., **Turner**, J. A., Guffanti, G., Lakatos, A., Fallon, J. H., Mathalon, D., Ford, J., Lauriello, J., Macciardi, F., & FBIRN. (2009). A genome-wide association study of schizophrenia using brain activation as a quantitative phenotype. *Schizophrenia Bulletin, 35*(1), 96-108.
 30. **Potkin, S. G., **Turner**, J. A., Fallon, J. A., Keator, D. B., Guffanti, G., Macciardi, F., & FBIRN. (2009). Gene discovery through imaging genetics: Identification of 2 novel genes for schizophrenia. *Molecular*

Psychiatry, 14(4), 416-428.

31. Potkin, S. G., **Turner**, J. A., Guffanti, G., Lakatos, A., Keator, D. B., & Macciardi, F. (2009). Genome-wide strategies for discovering genetic influences on cognition and cognitive disorders: Methodological considerations. *Cognitive Neuropsychiatry*, 14(4-5), 391-418.
32. Kim, D., Manoach, D. S., Mathalon, D., **Turner**, J. A., Mannell, M., Brown, G., Ford, J. M., Gollub, R., White, T., Wible, C., Belger, A., Bockholt, H. J., Clark, V. P., Lauriello, J., O'Leary, D., Mueller, B., Lim, K. O., Andreasen, N., Potkin, S. G., & Calhoun, V. D. (2009). Dysregulation of working memory and default-mode networks in schizophrenia during a Sternberg item recognition paradigm. *Human Brain Mapping*, 30(11), 3795-3811.
33. Laird, A. R., Eickhoff, S. B., Kurth, F., Fox, P. M., Uecker, A. M., **Turner**, J. A., Robinson, J. L., Lancaster, J. L., & Fox, P. T. (2009). ALE meta-analysis workflows via the Brainmap database: Progress towards a probabilistic functional brain atlas. *Frontiers in Neuroinformatics*, 3(23).
34. Potkin SG, Guffanti G, Lakatos A, **Turner** JA, Kruggel F, Fallon JH, et al (2009): Hippocampal atrophy as a quantitative trait in a genome-wide association study identifying novel susceptibility genes for Alzheimer's Disease. *PLoS ONE*, 4(8), e6501.
35. Kruggel, F., **Turner**, J. A., & Muftuler, L. T. (In Press). Impact of Scanner Hardware and Imaging Protocol on Image Quality and Compartment Volume Precision in the ADNI Cohort. *NeuroImage*.
36. Kim, M., Tura, E., Fallon, J. H., Potkin, S. G., Manoach, D.S., Calhoun, V.D., FBIRN, & **Turner**⁺, J. A. (2010). Working memory circuitry in schizophrenia shows widespread cortical inefficiency and compensation. *Schizophrenia Research*, 117(1), 42-51. ⁺**corresponding author**
37. Brinkman, R. R., Courtot, M., Derom, D., Fostel, J. M., He, Y., Lord, P., Malone, J., Parkinson, H., Peters, B., Rocca-Serra, P., Ruttenberg, A., Sansone, S., Soldatova, L. N., Stoerckert, C. J., **Turner**, J. A., Zheng, J., & Consortium, O. (In Press). Modeling biomedical experimental processes with the Ontology for Biomedical Investigation (OBI). *Journal of Biomedical Semantics*.
38. **Turner**, J.A., Mejino, O., Martone, M., Lee, H.J., Detwiler, T., Rubin, D. (Manuscript under review). Application of neuroanatomical ontologies for neuroimaging data annotation.

BOOK CHAPTERS

1. MacKenzie, R., Zak, P., and **Turner**, J. The Neuroeconomics of Rational Decision-Making. In *Predictably Rational?: In Search of Defenses for Rational Behavior in Economics*, Springer, 2009, 175-202.

SELECTED CONFERENCE PRESENTATIONS

1. **Turner**, J. A. and M. L. Braunstein (1994). Ability to detect a gap in a transparent motion display. *Association for Research in Vision and Ophthalmology*, Sarasota, FL.
2. Cho, Y., F. Domini, J. **Turner**, S. Richman and M. **Turner** (1996). The Muller-Lyer illusion in a reaching task. *Association for Research in Vision and Ophthalmology*, Sarasota, FL.
3. **Turner**, J. A. and M. L. Braunstein (1996). Bimodality and gap detection in transparent motion displays. *Association for Research in Vision and Ophthalmology*, Sarasota, FL.
4. Braunstein, M. L., C. Sauer, J. A. **Turner** and G. J. Andersen (1997). Perceived depth of structure-from-motion objects in a motion parallax scene. *Psychonomic Society Meeting*, Philadelphia, PA.
5. Quraishi, S. A., R. E. Phinney, J. A. **Turner**, J. F. McCollum and R. M. Siegel (1998). Changes in tuning to optic flow during a match-to-sample task in macaque parietal area 7A. *Annual Meeting of the Society*

for Neuroscience, Los Angeles, CA.

6. Siegel, R. M., J. A. **Turner** and R. E. Phinney (1998). Propagating waves and spatio-temporal chaos in a model of layer II/III of visual cortex. *Annual Meeting of the Society for Neuroscience*, Los Angeles, CA.
7. **Turner**, J. A., K. C. Anderson, R. E. Phinney and R. M. Siegel (1998). Optic flow selectivity in macaque 7a and STPa: Using temporal discriminants. *Annual Meeting of the Society for Neuroscience*, Los Angeles, CA.
8. **Turner**, J. A., R. E. Phinney and R. M. Siegel (1999). Differential activation of cortex by visual or auditory imagery. *Investigative & Ophthalmologic Vision Sciences*.
9. Lacourse, M. G., J. A. **Turner**, J. S. Lee and M. J. Cohen (2000). fMRI evidence for altered cortical sensorimotor processes following motor imagery practice. *Society for Neuroscience Meeting*, New Orleans, LA.
10. Lee, J. S., J. A. **Turner**, S. L. Schandler and M. J. Cohen (2000). The long-term effects of spinal-cord injury on sensorimotor cortex. *Society for Neuroscience Annual Meeting*, New Orleans, LA.
11. Lee, J. S., **Turner**, J.A., Cohen, M.J. (2000). Reorganization of sensory cortex after spinal cord injury. *Annual Meeting of the Organization for Human Brain Mapping*, San Antonio, TX.
12. Schandler, S. L., M. J. Cohen, J. A. **Turner**, J. S. Lee and W. L. Leach (2000). Altered sensory cortical processing results in reduced higher-level information operations in persons with alcoholism risk. *Society for Psychophysiological Research*, San Diego, CA.
13. **Turner**, J. A., J. S. Lee and M. J. Cohen (2000). Hand representations in motor cortex after spinal cord injury. *Annual Meeting of the Organization for Human Brain Mapping*, San Antonio, TX.
14. **Turner**, J. A., J. S. Lee, S. L. Schandler and M. J. Cohen (2000). Motor maps after quadriplegic spinal cord injury. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
15. Lacourse, M. G., J. A. **Turner**, J. S. Lee and M. J. Cohen (2001). FMRI evidence for cerebellar plasticity following motor imagery practice. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
16. **Turner**, J. A., J. S. Lee, S. L. Schandler and M. J. Cohen (2001). Thalamic activity in limb movements. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
17. **Turner**, J. A., S. L. Schandler and M. J. Cohen (2002). Cortical atrophy in spinal cord injury. *Annual Meeting of the Society for Neuroscience*, Orlando, FL.
18. Potkin, S. G., Andreasen N, Belger A, Brown G, Ford J, Glover G, Golub R, Heckers S, Lauriello J, Lieberman J, Lim KO, McCarley R, McCarthy G, Rosen B, Toga A, **Turner** J, Wible C (2003). Multi-Site Brain FMRI Imaging Studies in Schizophrenia Using the BIRN Methodology: Cognitive Tasks and Clinical Correlates. *International Congress on Schizophrenia Research (Workshop)*, Denver CO.
19. Potkin, S. G., J. A. **Turner**, G. G. Brown, G. H. Glover, S. Heckers, D. B. Keator, J. S. Grethe and F. BIRN (2003). Biomedical Informatics Research Network: Functional Imaging Research in Schizophrenia Testbed. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
20. Potkin, S. G., **Turner** JA, Brown GG, Glover GH, Heckers S, Keator DB, Grethe JS, FIRST BIRN (2003). Biomedical Informatics Research Network: Functional Imaging Research in Schizophrenia Test Bed. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
21. **Turner**, J. A., Potkin SG, Brown GG, Glover GH, Greve D, Keator DB, McCarthy G, Grethe JS, Wible

- CG, Lim K, Toga AW, Andreasen NC, O'Leary D, FIRST BIRN. (2003). Biomedical Informatics Research Network: Integrating multi-site human functional imaging acquisition and analysis. *Biomedical Information Science and Technology Initiative (BISTI) Symposium*, Bethesda, MD.
22. **Turner**, J. A., S. L. Schandler, M. G. Lacourse and M. J. Cohen (2003). Phantom limb movement activates similar networks as actual movement. *Annual Meeting of the Organization for Human Brain Mapping*, New York, NY.
 23. Potkin, S. G., Brown GG, Glover GH, McCarthy G, Lim KO, Gollub R, Rosen B, Toga A, Kikinis R, Dale A, Lauriello J, O'Leary O, Lieberman J, Belger A, Greve D, Friedman L, Cannon T, Keator DB, Grethe JS, **Turner** JA, Function BIRN. (2004). Functional Biomedical Informatics Research Network: Multi-Center fMRI Methods. *American College of Neuropsychopharmacology Meeting*, San Juan, Puerto Rico.
 24. **Turner**, J. A., Lee HJ, Wible C, McCarthy G, Potkin SG, FIRST BIRN (2004). The stability of auditory activation in functional magnetic resonance imaging data across sessions and sites. *Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
 25. Kemp, A. S., **Turner** JA, Lee HJ, Trondsen LC, Gooch KN, Mirski D, Potkin SG, FIRST BIRN (2005). The Neurocognitive Correlates of BOLD Activation in the Dorsolateral Prefrontal Cortex of Patients with Schizophrenia: An fMRI Investigation. *International Congress of Schizophrenia Research*, Savannah GA.
 26. Kilpatrick, L., **Turner**, J.A., Cahill, J.F. (2005). Male and female arousal-related changes in amygdala effective connectivity in relation to memory. *Annual Meeting of the Organization for Human Brain Mapping*, Toronto, Canada.
 27. **Turner**, J., Potkin SG, Brown GG, Glover GH, Fallon JH, McCarthy G, Lim KO, Gollub RL, Rosen BR, Toga AW, Kikinis R, Pieper S, Dale AM, Lauriello J, O'Leary DS, Lieberman JA, Belger A, Greve DN, Friedman L, Cannon TD, Keator DB, Grethe JS, Function BIRN. (2005). Multi-Center fMRI Methods And Design: Function BIRN. *International Congress of Schizophrenia Research*, Savannah GA.
 28. Gupta, A., C. Bean, W. Bug, C. Fennema-Notestine, M. E. Martone, J. A. **Turner** and J. S. Grethe (2006). Creating a community-based knowledge management framework for integrating neuroscience data via ontologies. *Annual Meeting of the Society for Neuroscience*, Atlanta, GA.
 29. Keator, D. B., Grethe, J., Ozyurt, B., Gadde, S., Wei, D., **Turner**, J.A., Potkin, S.G., Brown, G.G., McCarthy, G., Glover, G.H., Stern, H., Lauriello, J., Friedman, L., Belger, A., Lim, K.O., Pieper, S., Greve, D., FBIRN. (2006). Function Biomedical Informatics Research Network (FBIRN) Open Source fMRI Informatics, Calibration, and Data Tools Repository. *Annual Meeting of the Organization for Human Brain Mapping*, Florence, Italy.
 30. Kilpatrick, L. A., Fallon, J., **Turner**, J.A., Kennedy, J., Macciardi, F., Potkin, SG. (2006). Genetic Impact on Dorsolateral Prefrontal Functional Connectivity in Schizophrenics During a Working Memory Task. *Annual Meeting of the Organization for Human Brain Mapping*, Florence, Italy.
 31. Potkin, S. G., F. Macciardi, L. Friedman, J. A. **Turner**, J. F. Fallon, W. E. Bunney and D. B. Keator (2006). Imaging genetics as a model for the study of neuropsychiatric disease. *World Congress of Psychiatric Genetics*, Sardinia, Italy.
 32. **Turner**, J. A., C. Fennema-Notestine, M. E. Martone, A. R. Laird, J. S. Grethe, W. Bug, A. Gupta and C. Bean (2006). You say potato, I say potahto: Ontological engineering applied within the Biomedical Informatics Research Network. *Annual Meeting of the Society for Neuroscience*, Atlanta, GA.
 33. **Turner**, J. A., Stern, H., Friedman, L., Brown, G., Greve, D., Glover, G.H., Wible, C., Potkin, S.G., FBIRN. (2006). Variance reduction in multi-site functional imaging. *Annual Meeting of the Organization*

for *Human Brain Mapping*, Florence, Italy.

34. **Turner**, J. P., S. G.; Brown, G. G.; Stern, H. S; Glover, G. H.; McCarthy, G.; Greve, D. N.; Friedman, L.; Keator, D. B.; Grethe, J. S. Fallon, J. H.; Lim, K. O.; Gollub, R. L.; Rosen, B. R.; Toga, A. W.; Kikinis, R.; Pieper, S.; Lauriello, J.; O'Leary, D. S.; Belger, A.; Function BIRN (2006). Multi-center fMRI methods and design: Function BIRN. *Annual Meeting of the Society for Neuroscience*, Atlanta, GA.
35. Bockholt, H. J., J. **Turner**, H. Johnson, V. D. Calhoun, D. N. Greve, S. Williams, T. van Erp, D. O'Leary, J. Lauriello, C. Wible, K. Lim, B. A. Mueller, G. G. Brown, J. Voyvodic, G. McCarthy, J. Ford, S. G. Potkin and FBIRN (2007). Morphometric analysis of a multi-site study of schizophrenia using Freesurfer. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
36. Potkin, S. G., F. Macciardi, J. A. **Turner**, J. H. Fallon, G. Guffanti, W. E. Bunney and D. B. Keator (2007). Gene Discovery through Imaging Genetics: Identification of two novel genes for schizophrenia. *World Congress on Psychiatric Genetics XV*, New York, New York.
37. **Turner**, J., E. Tura, L. Trondsen, H. Lee, S. Potkin and FBIRN (2007). Functional circuitries in healthy subjects and schizophrenic patients during a working memory task. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
38. van Erp, T., J. Segall, H. J. Bockholt, J. **Turner**, H. Johnson, D. N. Greve, B. A. Mueller, D. B. Keator, K. Lim, C. Wible, J. Lauriello, D. O'Leary, G. G. Brown, J. Voyvodic, G. McCarthy, J. Ford, A. Belger, S. G. Potkin, V. D. Calhoun and FBIRN (2007). Voxel-based morphometric analysis of a multi-site study on schizophrenia. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
39. Bug, W., V. Astahkov, J. Boline, C. Fennema-Notestine, J. Grethe, A. Gupta, D. Kennedy, D. Rubin, B. Sanders, J. **Turner** and M. Martone (2008). Data Federation in the Biomedical Informatics Research Network: Tools for Semantic Annotation and Query of Distributed Multiscale Brain Data. *AMIA 2008 Annual Symposium*, Washington DC.
40. Potkin, S. G., J. A. **Turner**, G. Glover, G. Brown, D. B. Keator, B. Mueller, D. N. Greve, J. Voyvodic, C. Wible, T. T. Liu, G. McCarthy, J. Ford, A. Belger, K. O. Lim, J. Lauriello, A. Toga, R. Kikinis, B. Rosen, D. O'Leary and FBIRN (2008). Multi-site neuroimaging studies: Imaging calibration and datasharing. *Annual Meeting of the Society for Neuroscience*, Washington, DC.
41. Tura, E., J. A. **Turner**, M. D. Turner and L. T. Muftuler (2008). Coherent spatio-temporal patterns during meditation *Annual Meeting of the Society for Neuroscience*, Washington, DC.
42. Tura, E., J. A. **Turner**, M. D. Turner and L. T. Muftuler (2008). Variations among meditative and concentrative states: A case study. *Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
43. **Turner**, J. A., H. J. Bockholt, H. J. Johnson, V. D. Calhoun, J. Segall, T. van Erp, V. Magnotta, D. N. Greve, B. Mueller, R. Kikinis, G. McCarthy, J. Ford and FBIRN (2008). A comparison of volumetric methods in a multi-site study of schizophrenia. *Annual Meeting of the Society for Neuroscience*, Washington, DC.
44. Turner, M. D. and J. A. **Turner** (2008). Simulations for Methodological Comparisons among Multivariate Neuroimaging Techniques. *SIAM Conference on Imaging Science*, San Diego, CA.
45. van Erp, T. G. M., M.-C. Chiang, D. Sun, M. E. Hardt, J. H. Bockholt, J. A. **Turner**, V. D. Calhoun, H. J. Johnson, D. N. Greve, S. Williams, D. O'Leary, J. Lauriello, C. G. Wible, K. O. Lim, B. A. Mueller, G. G. Brown, Voyvodic, J., G. McCarthy, D. Mathalon, J. M. Ford, S. G. Potkin, T. D. Cannon, P. M. Thompson, A. W. Toga and FBIRN. (2008). 3D Pattern of Brain Abnormalities in Chronic Schizophrenia

Visualized Using Tensor-Based Morphometry: a Multi-Site Structural Imaging Study. *Annual Meeting of the Organization for Human Brain Mapping*, Melbourne, Australia.

46. Abe, S., J. M. Rasmussen, J. **Turner**, L. C. McMillan, J. Pfueller and FBIRN (2009). Calibration of ASL Quantification Based on ASL Hypercapnia and Sensory Motor Activation. *International Society for Magnetic Resonance in Medicine*, Hawaii.
47. Greve, D. N., B. A. Mueller, J. A. **Turner**, G. Brown, H. Stern, G. Glover, J. Voyvodic, T. Liu, S. Wallace, B. J. Roach, L. Yetter, J. M. Ford, D. H. Mathalon and FBIRN (2009). fMRI Hemodynamic Response Amplitude Repeatability Across Multiple Sites. . *Annual Meeting of the Organization for Human Brain Mapping*, San Francisco, CA.
48. Jorgensen, K. W., A. A. Bischoff-Grethe, G. G. Brown, C. Fennema-Notestine, S. Gadde, D. N. Greve, B. A. Mueller, R. Notestine, B. Ozyurt, S. G. Potkin, J. A. **Turner**, D. H. Mathalon and FBIRN. (2009). Assessing the impact of fMRI data quality on group level analyses in the FBIRN multi-site study of schizophrenia patients and healthy controls. *Annual meeting of the Organization for Human Brain Mapping*, San Francisco, CA.
49. Kim, M. A., E. Tura, H. Lee, S. G. Potkin, J. H. Fallon, D. Manoach, V. D. Calhoun and J. A. **Turner** (2009). Working memory circuitry in schizophrenia, as revealed by partial least squares analysis. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.
50. Macciardi, F., E. Osimo, S. Potkin, F. Torri, J. H. Fallon, J. A. **Turner**, G. Guffanti, M. Vawter, B. Lerer and S. Gaudi (2009). The regulation of susceptibility genes for schizophrenia. *XVII World Congress of Psychiatric Genetics*, San Diego, CA.
51. Magnotta, V. A., G. Bonnett, B. D. Bolster, B. Mueller, L. Lim, S. Mori, K. Helmer, J. **Turner**, S. Reading, M. Lowe, E. Aylward, L. Flashman and J. Paulsen (2009). Evaluation of multi-center diffusion tensor imaging data. *International Society for Magnetic Resonance in Medicine*, Hawaii.
52. Potkin, S. G., J. A. **Turner**, J. A. Fallon, A. Lakatos, D. B. Keator, G. Guffanti, F. Macciardi and FBIRN (2009). Gene Discovery Through Imaging Genetics: Identification of Two Novel Genes Associated with Schizophrenia. *International Congress on Schizophrenia Research*, San Diego, CA.
53. Rasmussen, J. M., S. Abe, L. C. McMillan, J. **Turner**, J. Pfueller and FBIRN (2009). Comparison of methods used in calibrated fMRI. *International Society for Magnetic Resonance in Medicine*, Hawaii.
54. **Turner**, J. A., J. Segall, M. D. **Turner**, G. Guffanti, V. D. Calhoun, S. G. Potkin, H. J. Bockholt, F. Macciardi and FBIRN (2009). Structural imaging genetics analyses in schizophrenia. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.
55. Wible, C. G., K. O. Lee, I. Molina, B. J. Roach, J. M. Ford, D. H. Mathalon, J. A. **Turner**, S. G. Potkin, D. O'Leary and G. Brown (2009). Relationship Between Auditory Hallucinations and Abnormal FMRI Activity During Performance of a Working Memory Task: Data from the FBIRN Consortium Study. *Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.

SERVICE AND TEACHING EXPERIENCE

- 2007-2009 *Workshop Leader and Presenter*, Imaging for Geneticists. In conjunction with the Third through Fifth International Imaging Genetics Conferences, University of California, Irvine.
- 2000-2003 *Member*, Long Beach VA Healthcare System Subcommittee on Human Studies (IRB).
- 2000, 2001 *Instructor*, Human Problem Solving. University of California, Irvine. Psychology Department.

- 1997 *Teaching Assistant/Lab Lecturer*, Introduction to Psychology. University of California, Irvine. Psychology Department. This included developing and presenting weekly lectures and tutorials supplemental to the regular class lectures and grading for 30 students.
- 1996 *Instructor*, Introduction to Experimental Psychology. University of California, Irvine, Summer Extension.
- 1993-1994; 1996. *Teaching Assistant/Lab lecturer*, Experimental Psychology. Led weekly 3-hr lab sessions with lecture, including upper-level writing instruction, experimental design, and statistical analysis for 30 students. University of California, Irvine. School of Social Sciences.

SYMPOSIA AND WORKSHOPS

- 2009 *Neurocognitive ontologies: Methods for sharing and integration of human brain data*, Symposium at the Annual Meeting of the Organization for Human Brain Mapping (Organizer). Presenter of *NeuroLex's ontology for fMRI data sharing*.
- 2009 *Imaging for geneticists*, Workshop presented at the Fifth International Imaging Genetics Conference, Irvine, CA.
- 2008 *Imaging for geneticists*, Workshop presented at the Fourth International Imaging Genetics Conference, Irvine, CA.
- 2006 *Calibration strategies to improve data comparability*. NIMH Workshop on Optimizing fMRI approaches to Adolescent Mental Disorders, August 17-18, 2006
- 2003 *Brain Imaging of Spinal Cord Injury*. Spinal Cord Injury Research Workshop presentation at the Long Beach VA Spinal Cord Conference and Training, Long Beach, CA.
- 2003 *Reproducing fMRI results: The BIRN Experience*. Presentation to the VISN 22 Mental Illness Research, Education, and Clinical Center MIRECC Workshop, Huntington Beach, CA.
- 2001 *Phantom pain and cortical reorganization*. Symposium presentation, *Neuroimaging and Clinical Rehabilitation*, American Psychological Association Annual Meeting, San Francisco.

INVITED TALKS

- 2009 *An initial imaging genetics analysis in schizophrenia: Combining structure and function*. Presentation at Fifth International Imaging Genetics Conference, Irvine, CA.
- 2009 *Imaging genetics*. Lecture presented to Neuroimaging Analysis course (BME 254), Department of Biomedical Engineering, University of California, Irvine.
- 2009 *Combining structure and function in schizophrenia*. Brain Imaging Colloquium, University of California, Irvine.
- 2008 *The FBIRN project: Multi-center functional neuroimaging in clinical populations*. Colloquium presented to the Department of Psychiatry, University of Iowa, IA.
- 2008 *Working memory retrieval dysfunction in schizophrenia: Evidence from imaging and genetics*. Grand Rounds presented to the Department of Psychiatry and Human Behavior, UC Irvine, CA.
- 2008 *The FBIRN project: Multi-center functional neuroimaging in clinical populations*. Colloquium for *CanAssist*, Faculty of Engineering, University of Victoria, Canada.

- 2008 *Working Memory Networks in Schizophrenia Modulate With Memory Load and Response Time.* Brain Imaging Colloquium, University of California, Irvine.
- 2005 *Multi-site fMRI calibration and combination.* Brain Imaging Colloquium, University of California, Irvine.
- 2003 *Neuroplasticity of the Central Nervous System after Spinal Cord Injury.* Panel presentation at the Long Beach VA Spinal Cord Conference and Training, Long Beach, CA.
- 2003 *Multi-site fMRI calibration: Assessing Variability.* Brain Imaging Colloquium, University of California, Irvine.
- 2002 *Phantom pains and cortical reorganization.* Presentations given to the Mutual Amputee Aid Foundation (MAAF) monthly meetings, Culver City and Torrance, CA.
- 2002 *Advances in Neuroimaging Techniques.* Panel presentation at the UCI Neuroscience Symposium, October 25, Irvine, CA.
- 2001 *Sensorimotor representations after spinal cord injury.* Grand Rounds presentation given to the Radiology Department, Long Beach VA Healthcare System, Long Beach, CA.
- 2000 *Sensorimotor representations after spinal cord injury.* Colloquium given to the Department of Physical Education and Kinesiology, California State University, Long Beach.
- 1999 *Perception of structure from optic flow in human and non-human primates.* Grand Rounds presentation given to the Edison Imaging Center, Edison, NJ.
- 1997 *Perception of structure from motion.* Colloquium given at the Center for Molecular and Behavioral Neuroscience, Rutgers the State University of New Jersey, Newark, NJ.

Ongoing Research Support

2009-2012 *Development of a Cognitive Paradigm Ontology: BrainMap and BIRN Integration* (co-PI, MIND). This project will develop, evaluate, and distribute a domain ontology of cognitive paradigms for application and use in the functional neuroimaging community. This cognitive paradigm ontology, CogPO, will be developed through the integration of two well known and established databases, the Functional Imaging Biomedical Informatics Research Network (FBIRN) Human Imaging Database (HID) and the BrainMap database. Funded by NIMH (NIH), 1R01MH084812-01A1.

2008 – 2010 *RSNA-NIBIB Radlex Ontology Project* (Principal Investigator, MIND contract)
This project (Daniel Rubin, Stanford, PI) is funded to expand the radiological imaging ontology (RadLex) to include functional MRI terms. My role in the project focuses on determining terminology to interpret the results of a functional imaging study—e.g., where is the neural activation in the brain, and what does that imply? The completion of this ontology will aid in large-scale biomedical data sharing and data mining for improved clinical understanding. NHLBI (NIH), NHLBI-PB-BB-2008-158-RCO.

2009 – 2011 *Biomedical Informatics Research Network Coordinating Center* (co-Investigator, UCI)
This project (Carl Kesselman, USC, PI) is the continuation of the BIRN Coordinating Center in its next phase. The goal will be to continue support and development of the FBIRN neuroimaging tools and methods, and their dissemination to the research community. NCCR (NIH), 3U24RR025736-01S1.

Past Research Support

2006-2010 *Functional Imaging Biomedical Informatics Research Network (FBIRN; Project Manager)*

The BIRN is an NCRR initiative aimed at creating a testbed to address biomedical researchers' need to access and analyze data at a variety of levels of aggregation located at diverse sites throughout the country. The BIRN testbed develops imaging methods and software necessary for a scalable network of databases and computational resources. The Function BIRN is dedicated to the development of multi-site functional imaging studies and databases, applied initially to the problem of schizophrenia. My role as Project Manager includes all aspects of this project, from applying the fMRI calibration methods locally and coordinating data collection, to setting the multi-site data sharing policies and collaborating on the subsequent analyses and papers regarding schizophrenic dysfunction. NCRR (NIH) U24 RR021992

2008-2009 *International Imaging Genetics Conference* (Principal Investigator)

The International Imaging Genetics Conferences are two-day meetings which bring together national and international experts in neuroimaging, genetics, data-mining, visualization and statistics, to present their research and findings as they relate to the field of Imaging Genetics. My role as PI includes soliciting speakers in conjunction with the External Advisory Board suggestions, organizing the conference schedule and venue, and developing expansions or revisions to the conference agenda. NIMH (NIH) 1R13MH083464-01

2004-2009 *Transdisciplinary Imaging Genetics Center* (fMRI Researcher/Project Manager)

This Center is developing robust and sensitive methods of combining genetic and neuroimaging data in analysis and visualization, for a more complete understanding of genetic influences on cognitive processing. NCRR (NIH) P20 RR0020837

2004-2009 *Morphometry Biomedical Informatics Research Network* (fMRI Specialist)

Morphometry BIRN participants are examining multi-site methods for neuroanatomical/imaging (MRI) correlates of neuropsychiatric illnesses in such disorders as unipolar depression, mild Alzheimer's disease, and mild cognitive impairment. NCRR (NIH) U24 RR021382.

2004-2008 *National Alliance for Medical Imaging Computing (National Center for Biomedical Computing)* (fMRI Specialist)

This project was a multi-institutional, interdisciplinary team of computer scientists, software engineers, and medical investigators who develop computational tools for the analysis and visualization of medical image data. NCRR (NIH) U54 EB005149.

2002 – 2005 *Functional Imaging Research in Schizophrenia Testbed, Biomedical Informatics Research Network (FIRST BIRN; Project Manager)*

This was the first multi-site functional neuroimaging study funded by NIH, comprising 10 universities around the US. It laid the foundation for the FBIRN and subsequent multi-site neuroimaging studies. NCRR (NIH) 5 MOI RR 000827.

2002-2003 *Functional Magnetic Resonance Imaging of Olfactory and Visual Function* (co-Investigator)

The role of the amygdala in incidental memory for visually-presented emotional stimuli was studied using fMRI. VA MIRECC grant.

2001-2003 *Cortical Reorganization and Neuropathic Pain after Deafferentation* (Principal Investigator)

This grant used fMRI techniques to investigate the relationship between cortical reorganization in the primary motor cortex and phantom pain, in chronic lower limb amputees and paraplegics. VA Medical Research Merit Review Type II.

1998-2001 *Sensitivity to Spatial Motion Patterns* (Principal Investigator)

The goal of this post-doctoral research grant was to study single unit responses in macaque visual area 7a in response to different motion components of optical flow fields and to different velocity distributions in otherwise unstructured fields. NEI (NIH) 1F32EY006830-01A1.

HONORS & AWARDS

- 1998 Cold Spring Harbor Workshop in Computational Neuroscience
- 1997 Regent's Dissertation Fellowship, University of California, Irvine
- 1990 Phi Beta Kappa, Swarthmore College
- 1990 Sigma Xi, Swarthmore College

PROFESSIONAL MEMBERSHIPS

- Organization for Human Brain Mapping
- Society for Cognitive Neuroscience
- Society for Neuroscience
- International Association for Ontology and its Applications