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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

## **EXPERIENCE**

2006-present    Project Scientist, Department of Psychiatry and Human Behavior, University of CA, Irvine

2003-2006      Research Specialist, Department of Psychiatry and Human Behavior, School of Medicine, Univ. of CA, Irvine

1999-2003      Research Healthcare Specialist. Head, fMRI for Research. Long Beach VA Healthcare System,

1997-1999      Post-doctoral Research Fellow. Rutgers, The State University, Newark, NJ

1993-2001      Teaching Assistant and Instructor, various quarters. School of Social Sciences, Univ. of CA, Irvine

1990-1997      Graduate Student Researcher. School of Social Sciences, Univ. of CA, Irvine

## **PUBLICATIONS**

1. Potkin, S. G., Turner, J. A., Fallon, J. A., Keator, D. B., Guffanti, G., Macciardi, F., & FBIRN. (Under Review (2008)). Gene discovery through imaging genetics: Identification of 2 novel genes for schizophrenia. Manuscript under review.
2. Kim, D., Manoach, D., Turner, J., Andreasen, N., Belger, A., Bockholt, J., Brown, G., Clark, V. P., Ford, J., Gollub, R., Lauriello, J., Mathalon, D., Potkin, S., White, T., Wible, C., & Calhoun, V. D. (Under Review (2008)). An analysis of the fMRI multisite Function BIRN and MIND studies shows a unique pattern in the modulation of functional networks related to working memory in schizophrenia.
3. 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. (Under Review (2008)). The NIFSTD and BIRN Lex vocabularies: Building comprehensive ontologies for neuroscience. *Journal of Neuroinformatics, NIF Special Issue*.
4. 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. (Under Review (2008)). Auditory oddball deficits in schizophrenia: An independent component analysis of the fmri multisite function birn study.
5. 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. (Under Review (2008)). Tuning in to the voices: A multi-site fMRI study of auditory hallucinations.
6. 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. (Under Review (2008)). Brain-performance correlates of working memory retrieval in schizophrenia: A cognitive modeling

approach.

7. 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.
8. 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.
9. 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.
10. 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. (2007). Test-retest and between-site reliability in a multicenter fmri study. *Human Brain Mapping*, Manuscript in press; 2007 Jul 2017; [Epub ahead of print].
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. Turner, J., & Braunstein, M. L. (1995). Size constancy in structure from motion. *Perception*, 24(10), 1155-1164.
27. 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.

## PRESENTED ABSTRACTS

1. Friedman, L., Mathalon, DH, Ford, JM, Elliott, T, Greve, DN, Mueller, B, Liu, T, Turner, JA, Cox, RW, Glover, GH. (2007). Are multichannel coils as helpful as we think for epi-bold data at 3.0t? *Annual Meeting of the Organization for Human Brain Mapping*, Chicago, IL.
2. Friedman, L., Trondsen, L., Turner, J., Glover, G., & Potkin, S. (2007). The effects of chronic smoking on bold effects of the breath hold task: Implications for breath hold calibration procedures. *Annual Meeting of the Organization for Human Brain Mapping*, Chicago, IL.
3. Gupta, A., Bean, C., Bug, W., Fennema-Notestine, C., Martone, M. E., Turner, J. A., & Grethe, J. S. (2006). Creating a community-based knowledge management framework for integrating neuroscience data via ontologies. *Annual Meeting of the Society for Neuroscience*, Atlanta, GA.
4. Turner, J. A., Fennema-Notestine, C., Martone, M. E., Laird, A. R., Grethe, J. S., Bug, W., Gupta, A., & Bean, C. (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.
5. 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.
6. 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.
7. 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.
8. 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.

9. Potkin, S. G., Macciardi, F., Friedman, L., Turner, J. A., Fallon, J. F., Bunney, W. E., & Keator, D. B. (2006). Imaging genetics as a model for the study of neuropsychiatric disease. *World Congress of Psychiatric Genetics*, Sardinia, Italy.
10. Turner, J. A., Potkin, S.G. Brown, G.G., Glover, G.H., McCarthy, G., Keator, D.B., Stern, H., Lauriello, J., Friedman, L., Belger, A., Lim, K.O., Pieper, S., Greve, D.N., FUNCTION BIRN. (2005). Multi-center fmri methods and design: Function birn. *Annual Meeting of the Society for Neuroscience*, Washington, DC.
11. 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.
12. 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.
13. 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.
14. Turner, J. A., Potkin, S.G., Glover, G., McCarthy, G., Gollub, R.L., Brown, G., Dale, A., Grethe, J.S., Friedman, L., Keator, D.B., FIRST BIRN. (2004). Biomedical informatics research network: Functional imaging research in schizophrenia testbed. *Annual Meeting of the Organization for Human Brain Mapping*, Budapest, Hungary.
15. 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.
16. 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.
17. Potkin, S. G., Turner, J. A., Brown, G. G., Glover, G. H., Heckers, S., Keator, D. B., Grethe, J. S., & BIRN, F. (2003). Biomedical informatics research network: Functional imaging research in schizophrenia testbed. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
18. Lacourse, M. G., Turner, J. A., & Randolph-Orr, E. (2003). Motor sequence learning following motor imagery practice is associated with functional plasticity of extrastriate and working memory areas. *Annual Meeting of the Organization for Human Brain Mapping*, New York, NY.
19. Turner, J. A., Schandler, S. L., Lacourse, M. G., & Cohen, M. J. (2003). Phantom limb movement activates similar networks as actual movement. *Annual Meeting of the Organization for Human Brain Mapping*, New York, NY.
20. 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.

21. 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.
22. Potkin, S. G., Turner JA, Brown GG, Glover GH, Heckers S, Keator DB, Grethe JS, FIRST BIRN. (2003, October 2003). Biomedical informatics research network: Functional imaging research in schizophrenia test bed. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
23. Lacourse, M. G., Turner, J. A., Velez, L., Randolph-Orr, E., & Turnbaugh, K. (2002). Mental practice and cerebellar plasticity. *Annual Meeting of the American Paraplegia Society*, Las Vegas, NV.
24. Turner, J. A., Schandler, S. L., & Cohen, M. J. (2002). Cortical atrophy in spinal cord injury. *Annual Meeting of the Society for Neuroscience*, Orlando, FL.
25. Siegel, R. M., Phinney, R. E., Turner, J. A., & Jando, G. (2001). Changing angle-of-gaze field topography in inferior parietal lobule of behaving monkey evaluated using optical imaging. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
26. Lacourse, M. G., Turner, J. A., Lee, J. S., & Cohen, M. J. (2001). Fmri evidence for cerebellar plasticity following motor imagery practice. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
27. Turner, J. A., Lee, J. S., Schandler, S. L., & Cohen, M. J. (2001). Thalamic activity in limb movements. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
28. Turner, J. A., Lee, J. S., & Cohen, M. J. (2000). Hand representations in motor cortex after spinal cord injury. *Annual Meeting of the Organization for Human Brain Mapping*, San Antonio, TX.
29. Lee, J. S., Turner, J. A., Schandler, S. L., & Cohen, M. J. (2000). Reorganization of sensory cortex after spinal cord injury. *Annual Meeting of the American Paraplegia Society*, Las Vegas, NV.
30. Turner, J. A., Lee, J. S., Schandler, S. L., & Cohen, M. J. (2000). Hand representation in motor cortex after spinal cord injury. *Annual Meeting of the American Paraplegia Society*, Las Vegas, NV.
31. Schandler, S. L., Cohen, M. J., Turner, J. A., Lee, J. S., & Leach, W. L. (2000). Altered sensory cortical processing results in reduced higher-level information operations in persons with alcoholism risk. *Society for Psychophysiological Research*, San Diego, CA.
32. Lacourse, M. G., Turner, J. A., Lee, J. S., & Cohen, M. J. (2000). Fmri evidence for altered cortical sensorimotor processes following motor imagery practice. *Society for Neuroscience Meeting*, New Orleans, LA.
33. Lee, J. S., Turner, J. A., Schandler, S. L., & Cohen, M. J. (2000). The long-term effects of spinal-cord injury on sensorimotor cortex. *Society for Neuroscience Annual Meeting*, New Orleans, LA.
34. Turner, J. A., Lee, J. S., Schandler, S. L., & Cohen, M. J. (2000). Motor maps after quadriplegic spinal cord injury. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
35. 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.
36. Turner, J. A., Phinney, R. E., & Siegel, R. M. (1999). Quantitative maps of retinotopy and angle of gaze from optical imaging in behaving macaque. *Annual Meeting of the Society for Neuroscience*, Miami, FL.
37. Turner, J. A., Phinney, R. E., & Siegel, R. M. (1999). Differential activation of cortex by visual or auditory

imagery. *Investigative & Ophthalmologic Vision Sciences*.

38. Quraishi, S. A., Phinney, R. E., Turner, J. A., McCollum, J. F., & Siegel, R. M. (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.
39. Turner, J. A., Anderson, K. C., Phinney, R. E., & Siegel, R. M. (1998). Optic flow selectivity in macaque 7a and stpa: Using temporal discriminants. *Annual Meeting of the Society for Neuroscience*, Los Angeles, CA.
40. Siegel, R. M., Turner, J. A., & Phinney, R. E. (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.
41. Braunstein, M. L., Sauer, C., Turner, J. A., & Andersen, G. J. (1997). Perceived depth of structure-from-motion objects in a motion parallax scene. *Psychonomic Society Meeting*, Philadelphia, PA.
42. Braunstein, M. L., Turner, J. A., & Sauer, C. (1997). The effects of collimation on perceived depth. *Association for Research in Vision and Ophthalmology*, Fort Lauderdale, FL.
43. Turner, J. A., & Braunstein, M. L. (1997). Spatial integration in speed distribution displays. *Association for Research in Vision and Ophthalmology*, Fort Lauderdale, FL.
44. Cho, Y., Domini, F., Turner, J., Richman, S., & Turner, M. (1996). The muller-lyer illusion in a reaching task. *Association for Research in Vision and Ophthalmology*, Sarasota, FL.
45. Turner, J. A., & Braunstein, M. L. (1996). Bimodality and gap detection in transparent motion displays. *Association for Research in Vision and Ophthalmology*, Sarasota, FL.
46. Turner, J. A., & Braunstein, M. L. (1994). Ability to detect a gap in a transparent motion display. *Association for Research in Vision and Ophthalmology*, Sarasota, FL.

## INVITED TALKS AND PRESENTATIONS

2008 *The FBIRN project: Multi-center functional neuroimaging in clinical populations*. Colloquium for CanAssist, Department 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.

2006 *Calibration strategies to improve data comparability*. Optimizing fMRI approaches to Adolescent Mental Disorders, NIMH Workshop, August 17-18, 2006

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 *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.

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.

2001 *Phantom pain and cortical reorganization*. Symposium presentation, *Neuroimaging and Clinical Rehabilitation*, American Psychological Association Annual Meeting, San Francisco.

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**

2006-2010 NCR (NIH) U24 RR021992 (Project Manager): *Functional Imaging Biomedical Informatics Research Network (FBIRN)*.

Objective: The BIRN is an NCR 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 will bring together hardware and develop software necessary for a scalable network of databases and computational resources. Issues of user authentication, data integrity, security, and data ownership will also be addressed. The Function BIRN is dedicated to the development of multi-site functional imaging studies and databases, applied initially to the problem of schizophrenia.

2004-2008 NCR (NIH) P20 RR0020837 (Project Manager): *Transdisciplinary Imaging Genetics Center*.

Objective: 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.

2004-2008 NCR (NIH) U24 RR021382 (fMRI Specialist): *Morphometry Biomedical Informatics Research Network*.

Objective: 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.

2004-2008 NCR (NIH) U54 EB005149 (fMRI Specialist): *National Alliance for Medical Imaging Computing (National Center for Biomedical Computing)*

Objective: This project is 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.

### **Past Research Support**

2002-2003 VA MIRECC grant (Co-I): *Functional Magnetic Resonance Imaging of Olfactory and Visual Function*

Objective: The role of the amygdala in incidental memory for visually-presented emotional stimuli was studied using fMRI.

2001-2003 VA Medical Research Merit Review Type II (PI): *Cortical Reorganization and Neuropathic Pain after Deafferentation*

Objective: 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.

## **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

## **SERVICE AND TEACHING EXPERIENCE**

2007 *Workshop leader*, Imaging for Geneticists. In conjunction with the Third International Imaging Genetics Conference, 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. School of Social Sciences, Psychology Department.

1997 *Teaching Assistant*, Introduction to Psychology. University of California, Irvine. School of Social Sciences, Psychology Department. This included weekly lectures and tutorials supplemental to the regular class lectures.

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. University of California, Irvine. School of Social Sciences.

## **PROFESSIONAL SOCIETIES**

Organization for Human Brain Mapping

Society for Cognitive Neuroscience

Society for Neuroscience

Association for Research in Vision & Ophthalmology, 1991-1999