

# Richard Cameron Craddock

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## Education

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### **PhD in Electrical and Computer Engineering**

05/2003 – 12/2009

Georgia Institute of Technology, Atlanta, GA

*Dissertation:* Support Vector Classification Analysis of Resting State Functional Connectivity fMRI

*Specializations:* MR Physics, Bioengineering, and Digital Signal Processing

*Minor:* Mathematics

*Advisors:* Xiaoping Hu, PhD and Helen Mayberg, MD

### **MS in Electrical and Computer Engineering**

01/2001 – 05/2003

Georgia Institute of Technology, Atlanta, GA

*Specializations:* Bioengineering and Digital Signal Processing

*Minor:* Mathematics

*Advisor:* Linda Wills, PhD

### **Bachelor of Computer Engineering**

06/1995 – 08/1999

Georgia Institute of Technology, Atlanta, GA

*Specializations:* Telecommunications and Digital Signal Processing

## Experience

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### **Director of Imaging**

07/2012 – present

Center for the Developing Brain, Child Mind Institute, New York, NY

### **Research Scientist**

07/2012 – present

Nathan S. Kline Institute for Psychiatric Research, Orangeburg, NY

### **Postdoctoral Associate**

10/2010 – 6/2012

Virginia Tech Carilion Research Institute, Roanoke, VA

*Supervisor:* Stephen M. LaConte, PhD

### **Research Associate**

10/2009 – 10/2010

Computational Psychiatry Unit, Department of Neuroscience, Baylor College of Medicine, Houston, TX

*Supervisor:* Stephen M. LaConte, PhD

### **Supervising Research Specialist**

01/2007 – 10/2009

Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA

*Supervisors:* Helen Mayberg, MD and Paul Holtzheimer, MD

### **Guest Researcher**

06/2004 – 01/2007

Centers for Disease Control and Prevention, Atlanta, GA

*Supervisors:* Brian Gurbaxani, PhD and Suzanne Vernon, PhD

<b>Research Assistant</b> School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, GA <i>Supervisor:</i> Linda Wills, PhD	11/2001 – 05/2004
<b>Engineer</b> Opuswave Networks Inc., Colorado Springs, CO	1/2000 – 09/2001
<b>Junior Systems Engineer</b> Lucent Technologies Product Realization Center, Atlanta, GA	8/1998 – 12/1998
<b>Stokes Undergraduate Scholar</b> Central Intelligence Agency, Washington DC	8/1995 – 12/1999

## Active Grant Support

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Neuro-Feedback for Default Mode Network Regulation in Major Depressive Disorder <i>Principle Investigator:</i> R. Cameron Craddock, PhD <i>Mentors:</i> Stephen LaConte, PhD and Helen Mayberg, MD <i>Funding Source:</i> The Brain and Behavior Research Fund NARSAD Young Investigator Award <i>Support Period:</i> 01/2011 – 01/2013 <i>Funding Amount:</i> \$60,000 USD	1/2011 – 1/2013
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## Patents

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European Patent 11188849.1 – 1560 <i>Inventors:</i> R. Cameron Craddock, Yating Lv, Daniel Margulies, Arno Villringer <i>Title:</i> Method and apparatus for visualization of tissue perfusion by means of assessing BOLD signal fluctuations	11/11/11
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## Journal Publications

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- [1] Callie L. McGrath, Mary E. Kelley, Paul E. Holtzheimer III, Boadie W. Dunlop, W. Edward Craighead, Alexandre R. Franco, **R. Cameron Craddock**, and Helen S. Mayberg. Toward a neuroimaging treatment selection biomarker for major depressive disorder. *JAMA Psychiatry*, *in press*.
- [2] Christiane S. Rohr, Hadas Okon-Singer, **R. Cameron Craddock**, Arno Villringer, and Daniel S. Margulies. Affect and the brain's functional organization: a resting-state connectivity approach. *PLOS ONE*, *in press*.
- [3] **R. Cameron Craddock**, Saad Jbabdi, Chao-Gan Yan, Joshua Vogelstein, F. Xavier Castellanos, Adriana Di Martino, Clare Kelly, Keith Heberlein, Stan Colcombe, and Michael P. Milham. Imaging human connectomes at the macroscale. *Nature Methods*, *in press*.
- [4] **R. Cameron Craddock**, Michael P. Milham, and Stephen M. LaConte. Predicting intrinsic brain activity. *Neuroimage*, *in press*.
- [5] F. Xavier Castellanos, Adriana Di Martino, **R. Cameron Craddock**, Ashesh D. Mehta, and Michael P. Milham. Clinical applications of the functional connectome. *Neuroimage*, Apr 2013.
- [6] C. J. Keller, S. Bickel, C. J. Honey, D. M. Groppe, L. Entz, **R. C. Craddock**, F. A. Lado, C. Kelly, M. Milham, and A. D. Mehta. Neurophysiological Investigation of Spontaneous Correlated and Anticorrelated Fluctuations of the BOLD Signal. *Journal of Neuroscience*, 33(15):6333--6342, Apr 2013.
- [7] Chao-Gan Yan, **R. Cameron Craddock**, Xi-Nian Zuo, Yue-Feng Zang, and Michael P. Milham. Standardizing the Intrinsic Brain: Towards Robust Measurement of Inter-Individual Variation in 1000 Functional Connectomes. *Neuroimage*, Apr 2013.
- [8] Yating Lv, Daniel S. Margulies, **R. Cameron Craddock**, Xiangyu Long, Benjamin Winter, Daniel Gierhake, Matthias Endres, Kersten Villringer, Jochen Fiebach, and Arno Villringer. Identifying the perfusion deficit in

acute stroke with resting-state functional magnetic resonance imaging. *Annals of Neurology*, 73(1):136--140, 2013.

- [9] Gaël Varoquaux and **R. Cameron Craddock**. Learning and comparing functional connectomes across subjects. *NeuroImage*, 2013.
- [10] Chao-Gan Yan, Brian Cheung, Clare Kelly, Stan Colcombe, **R. Cameron Craddock**, Adriana Di Martino, Qingyang Li, Xi-Nian Zuo, F Xavier Castellanos, and Michael P Milham. A comprehensive assessment of regional variation in the impact of head micromovements on functional connectomics. *NeuroImage*, 2013.
- [11] **R. Cameron Craddock**, G. Andrew James, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. A whole brain fMRI atlas generated via spatially constrained spectral clustering. *Hum Brain Mapp*, 33(8):1914--1928, Aug 2012.
- [12] Clare Kelly, Bharat B Biswal, **R. Cameron Craddock**, F Xavier Castellanos, and Michael P Milham. Characterizing variation in the functional connectome: promise and pitfalls. *Trends in Cognitive Sciences*, 2012.
- [13] S. Lavoie-Courchesne, P. Rioux, F. Chouinard-Decorte, T. Sherif, M.-E. Rousseau, S. Das, R. Adalat, J. Doyon, **R. C. Craddock**, D. Margulies, O. Lyttelton C. Chu, A. C. Evans, and P. Bellec. Integration of a neuroimaging processing pipeline into a pan-canadian computing grid. *Journal of Physics: Conference Series*, 341(1), 2012.
- [14] Kate Brody Nooner, Stanley J Colcombe, Russell H Tobe, Maarten Mennes, Melissa M Benedict, Alexis L Moreno, Laura J Panek, Shaquanna Brown, Stephen T Zavitz, Qingyang Li, et al. The NKI-Rockland sample: a model for accelerating the pace of discovery science in psychiatry. *Frontiers in neuroscience*, 6, 2012.
- [15] Christopher B. Glielmi, Qin Xu, **R. Cameron Craddock**, and Xiaoping P. Hu. Simultaneous acquisition of gradient echo/spin echo bold and perfusion with a separate labeling coil. *Magn Reson Med*, 64(6):1827--1831, Dec 2010.
- [16] **R. Cameron Craddock**, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. Disease state prediction from resting state functional connectivity. *Magn Reson Med*, 62(6):1619--1628, Dec 2009.
- [17] G. Andrew James, Mary E Kelley, **R. Cameron Craddock**, Paul E Holtzheimer, Boadie W Dunlop, Charles B Nemeroff, Helen S Mayberg, and Xiaoping P Hu. Exploratory structural equation modeling of resting-state fmri: applicability of group models to individual subjects. *NeuroImage*, 45(3):778--787, Apr 2009.
- [18] Andres M. Lozano, Helen S. Mayberg, Peter Giacobbe, Clement Hamani, **R. Cameron Craddock**, and Sydney H Kennedy. Subcallosal cingulate gyrus deep brain stimulation for treatment-resistant depression. *Biol Psychiatry*, 64(6):461--467, Sep 2008.
- [19] Lucile Capuron, Leonie Welberg, Christine Heim, Dieter Wagner, Laura Solomon, Dimitris A. Papanicolaou, **R. Cameron Craddock**, Andrew H Miller, and William C. Reeves. Cognitive dysfunction relates to subjective report of mental fatigue in patients with chronic fatigue syndrome. *Neuropsychopharmacology*, 31(8):1777--1784, Aug 2006.
- [20] Gordon Broderick, **R. Cameron Craddock**, Toni Whistler, Renee Taylor, Nancy Klimas, and Elizabeth R Unger. Identifying illness parameters in fatiguing syndromes using classical projection methods. *Pharmacogenomics*, 7(3):407--419, Apr 2006.
- [21] **R. Cameron Craddock**, Renee Taylor, Gordon Broderick, Toni Whistler, Nancy Klimas, and Elizabeth R Unger. Exploration of statistical dependence between illness parameters using the entropy correlation coefficient. *Pharmacogenomics*, 7(3):421--428, Apr 2006.
- [22] Toni Whistler, Renee Taylor, **R. Cameron Craddock**, Gordon Broderick, Nancy Klimas, and Elizabeth R. Unger. Gene expression correlates of unexplained fatigue. *Pharmacogenomics*, 7(3):395--405, Apr 2006.

## Invited Talks

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- [1] **R. Cameron Craddock**. Tracking resting state networks in real time. In *Educational Workshop, Proceedings Organization of Human Brain Mapping 18th Annual Meeting, Beijing*, Beijing, 2012.
- [2] **R. Cameron Craddock**, Jonathan M. Lisinski, Pearl Chiu, Helen S. Mayberg, and Stephen M. LaConte. Real-time tracking and biofeedback of the default mode network. In *Proceedings Organization of Human Brain Mapping 18th Annual Meeting, Beijing*, Beijing, 2012.

- [3] **R. Cameron Craddock**, Jonathan M. Lisinski, and Stephen LaConte. Online denoising strategies for real-time tracking default mode network activity. In *Proceedings Third Biennial International Conference on Resting-State Functional Connectivity*, Magdeburg, Germany, 2012.
- [4] **R. Cameron Craddock**. Applications of mvpa to the analysis of resting state fmri data: Disease state prediction, brain state prediction, and real-time fmri. In *Max Planck Institute, Leipzig, Germany*, 2010.
- [5] **R. Cameron Craddock**. Applications of mvpa to the analysis of resting state fmri data: Disease state prediction, brain state prediction, and real-time fmri. In *Otto von Guericke University, Magdeburg, Germany*, 2010.
- [6] **R. Cameron Craddock**. Applications of mvpa to the analysis of resting state fmri data: Disease state prediction, brain state prediction, and real-time fmri. In *University of Modena and Reggio Emilia, Moden, Italy*, 2010.
- [7] **R. Cameron Craddock**. Applications of mvpa to the analysis of resting state fmri data: Disease state prediction, brain state prediction, and real-time fmri. In *Brain Imaging Series Lecture, Center for Advanced Brain Imaging, Atlanta, GA*, 2010.
- [8] **R. Cameron Craddock**. Applying mvpa to fmri. In *New York University Child Study Center, New York, NY*, 2010.
- [9] **R. Cameron Craddock** and Daniel S. Margulies. What is the neuro bureau? In *Proceedings Second Biennial International Conference on Resting State Connectivity, Milwaukee, MI*, 2010.
- [10] **R. Cameron Craddock**, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. Disease state prediction from resting state fmri. In *Proceedings OHBM 15th Annual Meeting, San Francisco.*, 2009.
- [11] **R. Cameron Craddock**. Computing for public health. In *Intel Opportunities Scholars Program, Georgia Institute of Technology, Atlanta, GA*, 2006.
- [12] **R. Cameron Craddock**, Brian M. Gurbaxani, and Suzanne D. Vernon. Evaluation of single channel oligonucleotide preprocessing pipelines using predictability and reproducibility. In *BioInfoSummer, Canberra, AU*, 2006.
- [13] **R. Cameron Craddock**, Renee Taylor, Gordon Broderick, Toni Whistler, Nancy Klimas, and Elizabeth R. Unger. Exploration of statistical dependence between illness parameters using the entropy correlation coefficient. In *CFS Computation Challenge, Banbury Conference Center, Cold Springs Harbor Lab, Cold Spring Harbor, NY*, 2006.
- [14] **R. Cameron Craddock**. Computing in biology. In *Intel Opportunity Scholars Program, Georgia Institute of Technology, Atlanta, GA*, 2005.

## Conference Abstracts

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- [1] **R. Cameron Craddock**, Jonathan M. Lisinski, Pearl Chiu, Helen S. Mayberg, and Stephen M. LaConte. Real-time tracking and biofeedback of the default mode network. In *Proceedings Organization of Human Brain Mapping 18th Annual Meeting, Beijing*, pages 648, MT, Beijing, 2012.
- [2] **R. Cameron Craddock**, Jonathan M. Lisinski, and Stephen LaConte. Online denoising strategies for real-time tracking default mode network activity. In *Proceedings Third Biennial International Conference on Resting-State Functional Connectivity*, Magdeburg, Germany, 2012.
- [3] **R. Cameron Craddock** and Stephen M. LaConte. Estimation of resting state network activity using multivariate prediction analysis regression (MVPA-R). In *Proceedings 19th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Montreal*, 2011. *1<sup>st</sup> Place Functional Imaging Poster Award*.
- [4] **R. Cameron Craddock**, Stephen M. LaConte, F. Xavier Castellanos, Xi-Nian Zuo, Paul Thompson, Greig de Zubicaray, Katie McMahon, Ian Hickie, Nicholas Martin, Margaret Wright, and Michael Milham. Genetics influence inter-subject brain state prediction. In *Proceedings Organization of Human Brain Mapping 17th Annual Meeting, Quebec City*, pages 462, F--PM, Quebec City, 2011.

- [5] Alexandre Franco, Jaemin Shin, Ki Sueng Choi, **Richard Craddock**, Helen Mayberg, and Xiaoping Hu. Increased intra-slice functional correlation: Problem and solution. In *Proceedings Organization of Human Brain Mapping 17th Annual Meeting, Quebec City*, pages 640, M, 2011.
- [6] Y. Lv, D. Margulies, **R. Cameron Craddock**, X. Long, C. Rohr, B. Winter, M. Enders, K. Villringer, J. Fiebach, and A. Villringer. Diagnosis of stroke with non-invasive resting-state fmri. In *Proceedings 41st annual meeting of the Society for Neuroscience, Washington DC*, 2011.
- [7] Michael Milham, Maarten Mennes, David Gutman, Randy Buckner, **Cameron Craddock**, Daniel Margulies, Yufeng Zang, Bharat Biswal, J.K. Buitelaar, Vince Calhoun, Stan Colcombe, Eliza Congdon, Daniel Dickstein, Damien Fair, Matthew Hoptman, Maria de la Iglesia Vaya, George Andrew James, Rex Jung, Clare Kelly, David Kennedy, Kent Kiehl, Clint Kilts, Art Kramer, Stephen LaConte, Bennet Leventhal, Beatriz Luna, Larry Maayan, David Madden, Luis Martí-Bonmatí, Andrew Mayer, Stewart Mostofsky, Joel Nigg, Kate Noonan, James Pekar, Russell Poldrack, Erika Proal, Julie Schweitzer, Katerina Velanova, Arno Villringer, Xi-Nian Zuo, and F. Xavier Castellanos. The international neuroimaging data-sharing initiative (INDI) and the functional connectomes project. In *Proceedings Organization of Human Brain Mapping 17th Annual Meeting, Quebec City*, pages 343, Th, 2011.
- [8] Y. Shah, **R. C. Craddock**, S. M. LaConte, and S. J. Peltier. Functional connectivity: biophysical underpinnings and ramifications. In *Proceedings 19th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Montreal*, 2011.
- [9] **R. Cameron Craddock**, G. Andrew James, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. ROI atlas generation from whole brain parcellation of resting state fMRI data. In *Proceedings 18th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Stockholm*, 2010.
- [10] **R. Cameron Craddock**, G. Andrew James, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. A whole brain fMRI atlas generated via spatially constrained spectral clustering: Part I, method. In *Proceedings Organization for Human Brain Mapping 16th Annual Meeting*, pages 1006, MT--PM, Barcelona, 2010.
- [11] **R. Cameron Craddock**, G. Andrew James, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. A whole brain fMRI atlas generated via spatially constrained spectral clustering. In *Proceedings Second Biennial International Conference on Resting-State Functional Connectivity*, Milwaukee, MI, 2010.
- [12] **R. Cameron Craddock** and Stephen M. LaConte. Estimation of resting state network activity using support vector regression. In *Proceedings Organization for Human Brain Mapping 16th Annual Meeting*, pages 1280, WTh--PM, Barcelona, 2010.
- [13] **R. Cameron Craddock** and Stephen M. LaConte. Estimation of resting state network activity using support vector regression. In *Proceedings Second Biennial International Conference on Resting-State Functional Connectivity*, Milwaukee, MI, 2010.
- [14] G. Andrew James, **R. Cameron Craddock**, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. A whole brain fMRI atlas generated via spatially constrained spectral clustering: Part II, validity. In *Proceedings Organization for Human Brain Mapping 16th Annual Meeting*, pages 1063, MT--PM, Barcelona, 2010.
- [15] **R. Cameron Craddock**, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. Disease state prediction from resting state fMRI. In *Proceedings Organization of Human Brain Mapping 15th Annual Meeting*, pages 462, F--PM, San Francisco, 2009.
- [16] **R. Cameron Craddock**, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. Disease state prediction from resting state functional connectivity. In *Proceedings 17th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Honolulu*, page 1645, 2009.
- [17] Gopi Deshpande, G. Andrew James, **R. Cameron Craddock**, Helen S. Mayberg, and Xiaoping P. Hu. Predicting treatment in patients with major depression using granger-based connectivity and support vector machines. In *Proceedings 17th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Honolulu*, page 3362, 2009.
- [18] Christopher B. Glielmi, Qin Xu, **R. Cameron Craddock**, and Xiaoping P. Hu. Simultaneous acquisition of gradient echo / spin echo BOLD and perfusion with a separate labeling coil. In *Proceedings 17th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Honolulu*, page 4540, 2009.

- [19] G. Andrew James, **R. Cameron Craddock**, Mary E. Kelley, Paul E. Holtzheimer, Boadie Dunlop, Charles Nemeroff, Helen S. Mayberg, and Xiaoping P. Hu. Assessing fit of individuals to group-derived structural equation models of resting-state fMRI data. In *Proceedings 17th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Honolulu*, page 3364, 2009.
- [20] G. Andrew James, **R. Cameron Craddock**, Mary E. Kelley, Paul E. Holtzheimer, Boadie Dunlop, Charles B. Nemeroff, Xiaoping P. Hu, and Helen S. Mayberg. Assessing intersubject commonalities and differences with group-derived structural equation models of resting-state fMRI data. In *Proceedings OHBM 15th Annual Meeting*, pages 462, F--PM; O--SU--6, San Francisco, 2009.
- [21] Jaemin Shin, **R. Cameron Craddock**, Helen S. Mayberg, and Xiaoping P. Hu. Spatial and subject variability of long-term respiration effects in fMRI. In *Proceedings 17th Scientific Meeting, International Society for Magnetic Resonance in Medicine, Honolulu*, page 1654, 2009.
- [22] KiSueng Choi, **R. Cameron Craddock**, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. White matter disruption in early- and late-onset depression: a tract-based spatial statistical analysis. In *Proceedings 16th Scientific Meeting, International Society for Magnetic Resonance in Medicine*, page 3553, Toronto, 2008. Poster Award: 2nd Place.
- [23] KiSueng. Choi, **R. Cameron Craddock**, Paul E. Holtzheimer, Zhi. Yang, Xiaoping P. Hu, and Helen S. Mayberg. A combined functional-structural connectivity analysis of major depression using joint independent components analysis. In *Proceedings 16th Scientific Meeting, International Society for Magnetic Resonance in Medicine*, page 3555, Toronto, 2008.
- [24] **R. Cameron Craddock**, Christopher B. Glielmi, Paul E. Holtzheimer, Xiaoping P. Hu, and Helen S. Mayberg. Discrepancies between functional connectivity measured with BOLD and CBF in major depressive disorder. In *Proceedings 16th Scientific Meeting, International Society for Magnetic Resonance in Medicine*, page 3599, Toronto, 2008.
- [25] G. Andrew James, Mary E. Kelley, **R. Cameron Craddock**, Paul E. Holtzheimer, and Helen S. Mayberg. Abnormal subgenual anterior cingulate connectivity in major depressive disorder. In *63rd Annual Scientific Conference of the Society of Biological Psychiatry*, Washington DC, 2008.
- [26] G. Andy James, Scott J. Peltier, **R. Cameron Craddock**, Stephen M. La Conte, Helen S. Mayberg, and Xiaoping P. Hu. Reliable modeling of resting-state emotional networks in major depressive disorder: Applicability of exploratory structural equation modeling to small sample sizes. In *Proceedings 16th Scientific Meeting, International Society for Magnetic Resonance in Medicine*, page 95, Toronto, 2008.
- [27] Helen S. Mayberg, **R. Cameron Craddock**, Paul E. Holtzheimer, David A. Gutman, Dylan Wint, and Robert Gross. Functional connectivity models of major depression and antidepressant response explored using deep brain stimulation. In *63rd Annual Scientific Conference of the Society of Biological Psychiatry*, Washington DC, 2008.
- [28] Jaemin Shin, **R. Cameron Craddock**, and Xiaoping P. Hu. Retrospective estimation and correction of long-term physiological effects in fMRI. In *Proceedings 16th Scientific Meeting, International Society for Magnetic Resonance in Medicine*, page 2466, Toronto, 2008.
- [29] **R. Cameron Craddock**, Scott J. Pelter, Holtzheimer Paul E., Xiaoping P. Hu, and Helen S. Mayberg. The Cg25 resting state network. In *Proceedings Organization for Human Brain Mapping 13th Annual Meeting*, pages 260, M--PM, Chicago, 2007.
- [30] Paul E. Holtzheimer, KiSueng Choi, David A. Gutman, **R. Cameron Craddock**, and Helen S. Mayberg. Investigating neural network abnormalities in late-life depression. In *Seeking Biomarkers of Aging and Diseases of Aging, An American Federation of Aging Research Conference*, New York, 2007.
- [31] G. Andy James, Stephen M. La Conte, **R. Cameron Craddock**, Helen S. Mayberg, and Xiaoping P. Hu. Structural equation modeling of resting-state temporal lobe functional connectivity. In *Proceedings 15th Scientific Meeting, International Society for Magnetic Resonance in Medicine*, page 2208, Berlin, 2007.
- [32] Mary E. Kelly, **R. Cameron Craddock**, Paul E. Holtzheimer, Sidney H. Kennedy, and Helen S. Mayberg. Resting state brain connectivity as predictors of treatment response in depression. In *62nd Annual Scientific Convention and Program of the Society of Biological Psychiatry*, San Deigo, 2007.

- [33] **R. Cameron Craddock**, Svetlana Masalovich, Scott J. Pelter, Xiaoping P. Hu, and Helen S. Mayberg. Multivariate analysis of resting state fMRI in major depression using SeedPLS. In *Proceedings 14th Scientific Meeting, International Society for Magnetic Resonance in Medicine*, page 2850, Seattle, 2006.
- [34] Toni Whistler, Renee Taylor, **R. Cameron Craddock**, Gordon Broderick, Nancy Klimas, and Elizabeth R. Unger. Gene expression correlates of unexplained fatigue. In *Experimental Biology*, San Francisco, 2006.
- [35] **R. Cameron Craddock**, Eric Aslakson, and Suzanne D. Vernon. Development of a gene expression microarray database for flexible data processing, analysis, and archiving. In *CDC Genomics Day*, Atlanta, 2005.
- [36] Matthew Tiller, Eric Aslakson, **R. Cameron Craddock**, and Suzanne D. Vernon. Development of a text mining tool that provides gene informatino in specific disease and biological context. In *13th Annual International Conference on Intelligent Systems for Molecular Biology*, Detriot, 2005.

## Service

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*Advisor*, 2011 - Current, Child Mind Institute Endeavor Scientist Program

*Video Advisor*, 2010 - 2011, NeuroImage YouTube Channel

*Co-founder*, The Neuro Bureau

*Journal Reviewer*, NeuroImage, Human Brain Mapping, Journal of Neuroscience Methods, Frontiers in Systems Neuroscience, IEEE Transactions in Medical Imaging, Magnetic Resonance Imaging, Biological Psychiatry, Frontiers in Neuroanatomy, Neuroinformatics

*Conference Organizer*, 2012 BrainHack and UnConference

*Conference Reviewer*, 17<sup>th</sup> Meeting of the Organization for Human Brain Mapping (2011), 16<sup>th</sup> Meeting of the Organization for Human Brain Mapping (2010), 13<sup>th</sup> International Conference on Medical Image Computing and Computer Assisted Intervention (2010)

*Judge*, 2005 Georgia State Science and Engineering Fair, Athens, GA

*Mentor*, 2002-2003, Georgia Tech Intel Opportunity Scholars, Atlanta, GA

## Honors and Awards

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2011, Poster Award, 1<sup>st</sup> Place Functional Imaging, 19th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Montreal

2010, Philips Travel Stipend Award, Second Biennial International Conference on Resting-State Functional Brain Connectivity

2009, Organization of Human Brain Mapping Trainee Abstract Award

2008, CCB/IPAM MBI Summer Fellow

2008, ISMRM Educational Stipend

2007, ISMRM Educational Stipend

2006, BioInfoSummer 2006 Travel Scholarship

2006, ISMRM Educational Stipend

2003, Georgia Tech Office of Minority Education Tower Award

2000-2001, Opuswave Networks INC.: numerous individual/team awards

1998, CIA Meritorious Unit Citation

1998, Lucent Technologies Achievement Award

1995-1999, Stokes Undergraduate Scholarship

1995-1999, Georgia Tech Dean's List seven times  
1995-1999, Georgia Tech Faculty Honors twice

## **Professional Memberships**

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International Society for Magnetic Resonance in Medicine  
Organization for Human Brain Mapping

## **Other Education/Certifications**

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2010, Siemens ICE and SDE programming courses