
BIOGRAPHICAL SKETCH

NAME FERREE, THOMAS CHARLES	POSITION TITLE VISITING SCHOLAR		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Seminole Community College, Sanford	AA	1982-84	Math/Physics
University of Florida, Gainesville	BS	1984-86	Physics
University of California, Davis		1986-87	Physics
University of Colorado, Boulder	MS, PhD	1987-92	Physics
University of Rochester, Rochester	Postdoc	1992-95	Physics
University of Oregon, Eugene	Postdoc	1995-98	Neuroscience
Marine Biological Laboratory, Woods Hole		1996	Computational Neuroscience
Mind and Life Summer Research Institute, Garrison		2005	Cognitive Neuroscience

A. POSITIONS AND HONORS

Professional Appointments

1992 Visiting Instructor, Department of Physics, Colorado College
 1992-95 Research Associate, Department of Physics, University of Rochester
 1995-98 Research Associate, Institute of Neuroscience, University of Oregon
 1998-01 Research Scientist, Electrical Geodesics, Inc., Eugene, Oregon
 1998-00 Research Associate, Department of Psychology, University of Oregon
 2000-01 Research Associate, Computational Science Institute, University of Oregon
 2001-05 Assistant Adjunct Professor, Department of Radiology, University of California, San Francisco
 2002-05 Graduate Group Member, Department of Bioengineering, University of California, Berkeley
 2005-pr Visiting Scholar, Center for Mind and Brain, University of California, Davis

Teaching

1992 Introductory Physics, Colorado College
 1998-01 Theory and Algorithms for EEG Software Development, Electrical Geodesics, Inc.
 2001-03 Electromagnetic Neuroimaging, Department of Bioengineering, University of California, Berkeley

Honors and Awards

1982-84 Academic Scholarship in Math and Science, Seminole Community College
 1983-84 Outstanding Physics Student of the Year, Seminole Community College
 1983 Phi Theta Kappa National Honor Fraternity
 1984 Summa Cum Laude, Seminole Community College
 1986 Dean's List, University of Florida
 1986 Golden Key National Honor Society
 1990-91 Doctoral Fellowship for Outstanding Thesis Research, University of Colorado
 1995-98 NRSA Postdoctoral Fellowship, National Institute of Mental Health
 1999 U.S. Patent Number 6,330,470, *Method for localizing electrical activity in body tissue.*
 2003-04 Individual Investigator Grant, Academic Senate, University of California, San Francisco
 2003-04 Research Development Grant, Department of Radiology, University of California, San Francisco

Other Professional Activities

1998	Workshop Organizer	<i>Workshop on Cortical Field Theories</i> Computational Neuroscience Meeting, Santa Barbara, California
2001-02	Journal Reviewer	Neuroimage
2002-03	Grant Reviewer	NIH Special Emphasis Panel on Neuroinformatics: SSS-E(15)
2002-pr	Journal Reviewer	Physics in Medicine and Biology
2003	Journal Reviewer	IEEE Transactions on Neural Networks
2004	Grant Reviewer	Louisiana Board of Regents Research Competitiveness Program
2004	Journal Reviewer	Neurocomputing
2004-pr	Journal Reviewer	Physiological Measurement
2005	Journal Reviewer	Cerebral Cortex
2005	Book Reviewer	<i>Electric Fields of the Brain: The Neurophysics of EEG (2nd Edition)</i> . Nunez PL, Srinivasan R. Oxford University Press.
2006	Workshop Organizer	<i>Workshop on Directed Interactions in Large-Scale Cortical Networks</i> Human Brain Mapping Meeting, Florence, Italy

B. SELECTED PUBLICATIONS

Dr. Ferree has roughly 50 papers and abstracts in physics, computational neuroscience, electrical impedance tomography (EIT), electroencephalography (EEG), and functional magnetic resonance imaging (fMRI). The following 10 are limited to human brain science, and emphasize recent work :

Ferree TC, Eriksen KJ, and Tucker DM (2000). Regional head tissue conductivity estimation for improved EEG analysis. *IEEE Transactions on Biomedical Engineering* 47(12): 1584-1592.

Ferree TC, Luu PL, Russell J, and Tucker DM (2001). Scalp-electrode impedance, infection risk and EEG data quality. *Clinical Neurophysiology* 112(3): 536-544.

Clay MT, **Ferree** TC (2002). Weighted regularization in electrical impedance tomography with applications to acute cerebral stroke. *IEEE Transactions on Medical Imaging* 21(6): 629-637.

Hwa RC, **Ferree** TC (2002). Scaling properties of fluctuations in human electroencephalogram. *Physical Review E* 66: 021901.

Ferree TC, Hwa RC (2005). Electrophysiological measures of acute cerebral ischemia. *Physics in Medicine and Biology* 50: 3927-3939.

Ferree TC, Nunez PL (2006). Primer on electroencephalography for functional connectivity. In: Jirsa V and McIntosh R (Eds.) *Handbook of Brain Connectivity*, in press.

Ferree TC (2006). Spherical splines and average referencing in scalp electroencephalography. *Brain Topography*, in revision.

Kontsevich LL, **Ferree** TC, Tyler CW. Estimation of neural responses underlying independent components in BOLD signals of human cortex. *Human Brain Mapping*, submitted.

Ziai NG, Norcia AM, Wade AR, Watnik AR, Willits NH, **Ferree** TC. Optimizing fMRI signal detection: magnitude-squared coherence, *Neuroimage*, submitted.

Ferree TC, Wade AR, Calvisi ML, Szeri AJ, Liley DTJ, Inglis BA, Norcia AM. EEG and fMRI responses to sinusoidal contrast modulation, in preparation.
