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Experience

- 2008 - Present Associate Professor. Department of Statistics, *Columbia University, New York, NY*
- 2002 - 2008 Assistant Professor. Department of Statistics, *Columbia University, New York, NY*
- Spring 2002 Visiting Assistant Professor. Department of Mathematics, *University of Minnesota, Minneapolis, MN*. Responsible for two undergraduate mathematics courses.
- 2001-2002 Post-Doctoral Associate. Center for Magnetic Resonance Research, *University of Minnesota, Minneapolis, MN*. Research on statistical problems relating to fMRI.
- 2000-2001 Course Instructor. Department of Statistics, *Rutgers University, New Brunswick, NJ*
Introduction to Computers for Statistics (Fall 2000 & Spring 2001)
- 2000 Visiting Scholar. Department of Statistics, *Stanford University, Palo Alto, CA*
- 1999-2000 Consultant. Center for NMR Research, *Hershey Medical Center, Hershey, PA*
Developed new algorithms and software for fMRI.
- 1998 Internship. Performance Analysis Department, *Lucent Technologies, Holmdel, NJ*
Developed software reliability model tailored to Lucent system-testing data.
- 1997 Internship. Performance Analysis, *Ericsson Mobile Communications AB, Kista, Sweden*
Automated modem testing procedures.
- 1996 Researcher. Department of Mathematics and Statistics, *University of Sydney, Australia*
Conducted research involving statistical models for the release of neurotransmitters.

Education

- 2001 PhD, Department of Statistics, *Rutgers University, New Brunswick, N.J.*
GPA: 3.97/4.0
Dissertation: Fast Functional MRI Using Two-Dimensional Prolate Spheroidal Wavefunctions. Advisors: Larry Shepp, PhD. & Cun-Hui Zhang, PhD.
- 1997 MSc., Engineering Physics, *Royal Institute of Technology (KTH); Stockholm, Sweden*
Concentration: Applied Mathematics. Thesis: Non-Homogenous Type II Counter Models for the Release of Neurotransmitters.
- 1996 Department of Mathematics and Statistics, *University of Sydney; Australia*
Master's Thesis Research
- 1990-1992 Department of History and History of Ideas, *Stockholm University; Sweden*

Papers

Yu (Ryan) Yue, Ji Meng Loh and Martin Lindquist (2009). “Adaptive spatial smoothing of fMRI images”. In submission.

Lucy Robinson, Tor Wager, and Martin Lindquist (2009). “Change point estimation in multi-subject fMRI studies”. In submission.

Lauren Atlas, Niall Bolger, Martin Lindquist, and Tor Wager (2009). “Multiple brain pathways mediate expectancy effects on pain”, In submission.

Martin Lindquist and Ian McKeague (2009). “Logistic Regression with Brownian-like Predictors”. *Journal of the American Statistical Association*, to appear.

William Ottowitz, Thilo Deckersbach, Cary Savage, Martin Lindquist, Darin Dougherty (2009). “Neural correlates of strategic processes underlying episodic memory in women with major depression: an ^{15}O -PET study”. *Journal of Neuropsychiatry and Clinical Neurosciences*, to appear.

Tor Wager, Christian Waugh, Martin Lindquist, Doug Noll, Barb Fredrickson and Steve Taylor (2009). “Brain mediators of cardiovascular responses to social threat, Part I: Reciprocal dorsal and ventral sub-regions of the medial prefrontal cortex and heart-rate reactivity”. *NeuroImage*, to appear.

Tor Wager, Vanessa van Ast, Brent Hughes, Matthew Davidson, Martin Lindquist and Kevin Ochsner (2009). “Brain mediators of cardiovascular responses to social threat, Part II: Prefrontal subcortical pathways and relationship with anxiety”. *NeuroImage*, to appear.

Martin Lindquist and Andrew Gelman (2009). “Correlations and Multiple Comparisons in Functional Imaging – a Statistical Perspective”. *Perspectives on Psychological Science*, 4, 310-313.

Martin Lindquist (2008). “The Statistical Analysis of fMRI Data”. *Statistical Science*, 23(4), 439–464.

Tor Wager, Martin Lindquist, Thomas Nichols, Hedy Kober and Jared Van Snellenberg (2008). “Evaluating the consistency and specificity of neuroimaging data using meta-analysis”. *NeuroImage*, 45, S210-S221.

Martin Lindquist, Ji Meng Loh, Lauren Atlas, and Tor Wager (2008). “Modeling the Hemodynamic Response Function in fMRI: Efficiency, Bias and Mis-modeling”. *NeuroImage*, 45, S187-S198.

William Ottowitz, Karen Siedlecki, Martin Lindquist, Darin Dougherty, Alan Fischman and Janet Hall (2008). “Evaluation of prefrontal–hippocampal effective connectivity following 24 hours of estrogen infusion: An FDG-PET study”. *Psychoneuroendocrinology*, 33, 1419-1425.

Tor Wager, Matthew Davidson, Brent Hughes, Martin Lindquist and Kevin Ochsner (2008). “Prefrontal-subcortical pathways mediating successful emotion regulation”. *Neuron*, 59, 1037-1050.

Jack Grinband, Tor Wager, Martin Lindquist, Vincent Ferrera and Joy Hirsch (2008). “Modeling duration in event-related fMRI designs”. *NeuroImage*, 43, 509-520.

William Ottowitz, David Derro, Darin Dougherty, Martin Lindquist, Alan Fischman and Janet Hall (2008). “FDG-PET analysis of amygdalar-cortical network covariance during pre- versus post-menopausal estrogen levels: Potential relevance to resting state networks, mood, and cognition”. *Neuroendocrinology Letters*, 29(4):101–000.

Cun-Hui Zhang, Martin Lindquist, Z.H. Cho, Gary Glover and Lawrence Shepp (2008). “Fast Functional Magnetic Resonance Imaging – A New Approach Towards Neuroimaging” *Statistics and Its Interface*, 1, 13-22.

Martin Lindquist, Cun-Hui Zhang, Gary Glover and Lawrence Shepp (2008). "Acquisition and Statistical Analysis of Rapid 3D fMRI data". *Statistica Sinica*, 18(2008), 1395-1419.

Ji-Meng Loh, Martin Lindquist and Tor Wager (2008). "Residual Analysis for Detecting Mis-modeling in fMRI". *Statistica Sinica*, 18, 1421-1448.

Martin Lindquist and Tor Wager (2008). "Spatial Smoothing in fMRI using Prolate Spheroidal Wave Functions". *Human Brain Mapping*, 29(11), 1276-1287.

Tor Wager, Luis Hernandez and Martin Lindquist (2008). "Essentials of Functional Neuroimaging" In John Cacioppo and Gary Berntson (Eds), *The Handbook of Neuroscience for the Behavioral Sciences*. John Wiley and Sons.

Martin Lindquist, Cun-Hui Zhang, Gary Glover and Lawrence Shepp (2008). "Rapid Three-Dimensional Functional Magnetic Resonance Imaging of the Negative BOLD Response". *Journal of Magnetic Resonance*, 191, 100-111.

Tor Wager, Martin Lindquist and Lauren Kaplan (2007). "Meta-analysis of functional neuroimaging data: Current and future directions", *Social Cognitive and Affective Neuroscience* 2: 150-158.

Martin Lindquist, Christian Waugh and Tor Wager (2007). "Modeling state-related fMRI activity using change-point theory". *NeuroImage* 35, 1125-1141

Tor Wager, Luis Hernandez, John Jonides and Martin Lindquist (2007). "Elements of Functional Neuroimaging" In John Cacioppo, Louis Tassinary and Gary Berntson (Eds), *The Handbook of Psychophysiology*, 3rd Edition. Cambridge University Press.

Martin Lindquist and Tor Wager (2007). "Validity and Power in Hemodynamic Response Modeling: A comparison study and a new approach". *Human Brain Mapping*, 28(8) 764-784.

Martin Lindquist, Cun-Hui Zhang, Gary Glover, Lawrence Shepp and Qing Yang (2006). "A Generalization of the Two Dimensional Prolate Spheroidal Wave Function Method for Non-Rectilinear MRI Data Acquisition Methods". *IEEE Transactions in Image Processing* 15(9), 2792-2804.

Martin Lindquist and Tor Wager (2005). "Application of change-point theory to modeling state-related activity in fMRI". In Pat Cohen (Ed), *Applied Data Analytic Techniques for "Turning Points" Research*. In press.

Martin Lindquist (2003). "Optimal Data Acquisition in fMRI Using Prolate Spheroidal Wave Functions". *International Journal of Imaging Systems and Technology*, 13, 803-812.

Essa Yacoub, Timothy Duong, Pierre-Francoise Van De Moortele, Martin Lindquist, Gregor Adriany, Seong-Gi Kim, Xiaoping Hu and Kamil Ugurbil (2003). "Spin Echo fMRI in Humans Using High Spatial Resolutions and High Magnetic Fields". *Magnetic Resonance in Medicine* 49, 655-664.

Qing Yang, Martin Lindquist, Lawrence Shepp, Cun-Hui Zhang, Jianli Wang and Michael Smith (2002). "The Two Dimensional Prolate Spheroidal Wave Function for MRI". *Journal of Magnetic Resonance*, 158, 43-51.

Martin Lindquist (2001). "Fast Functional MRI using Two-Dimensional Prolate Spheroidal Wave Functions". *ProQuest Information and Learning Company*. Ann Arbor, MI.

Technical Reports

Martin Lindquist. "A Note on Spatial Smoothing and Minimum K-space Sampling Requirements in fMRI", Technical Report, 2004.

Larry Shepp, Cun-Hui Zhang and Martin Lindquist "Simple Ball-of-Yarn Spiral Sampling in 3-Dimensional K-Space", Technical Report, 2004.

Martin Lindquist. "Reconstruction of MR images using Non-uniformly Sampled Data and the Prolate Spheroidal Wave Function", Technical Report, 2004.

Martin Lindquist. "Non-Homogeneous Type II Counter Models for Neurotransmitter Releases". *Master's Thesis* January 1997.

Peer-Reviewed Conference Papers

Julie Spicer, Lauren Leotti, Iris Asllani, Ajna Borogovac, Martin Lindquist, Ed Smith and Tor Wager. "Individual differences in brain mechanisms of social evaluative threat". *Neuroscience*, 2009.

Martin Lindquist, Ragnheidur Haraldsdottir, Lauren Atlas and Tor Wager. "Modeling Brain Pathways using Functional Mediation Analysis". *Human Brain Mapping Annual Meeting*, 2009.

Martin Lindquist, Julie Spicer, Lauren Leotti, Iris Asllani, and Tor Wager. "Localizing areas with significant inter-individual variation: Testing Variance Components in a Multi-level GLM". *Human Brain Mapping Annual Meeting*, 2009.

Lauren Atlas, Niall Bolger, Martin Lindquist and Tor Wager. "Multiple Brain Pathways Mediate Expectancy Effects on Pain". *Human Brain Mapping Annual Meeting*, 2009.

Lucy Robinson, Tor Wager, Lauren Atlas, and Martin Lindquist. "Spatial Clustering of Response Curves". *Human Brain Mapping Annual Meeting*, 2009.

Julie Spicer, Lauren Leotti, Iris Asllani, Ajna Borogovac, Martin Lindquist and Tor Wager. "Using Perfusion fMRI to Identify Brain Mechanisms of Social Evaluative Threat", *Human Brain Mapping Annual Meeting*, 2009.

Lauren Atlas, Niall Bolger, Martin Lindquist and Tor Wager. "Multiple mediators of expectancy effects on pain perception: Interactions among higher-order brain regions and the pain matrix". *Cognitive Neuroscience Society*, 2009.

Lauren Atlas, Niall Bolger, Martin Lindquist and Tor Wager. "Neural mechanisms of expectancy-based pain modulation: Whole brain mediation analysis using fMRI". *Neuroscience*, 2008.

Lucy Robinson, Tor Wager, and Martin Lindquist. "Estimating Distributions of Onset Times and Durations from Multi-subject fMRI Studies". *Human Brain Mapping Annual Meeting*, 2008.

Tor Wager, Lauren Atlas, Martin Lindquist, Kate Hard, Matthew Davidson. "Functional Pathway Discovery using Mediation Analysis: Approach and Application to Pain". *Human Brain Mapping Annual Meeting*, 2008.

William Ottowitz, Martin Lindquist, Darin Dougherty, Alan Fischman, Janet Hall. "Use of FDG-PET to Evaluate the Limbic-Pituitary-Adrenal Axis During Estrogen Challenge: A Preliminary Analysis". *Human Brain Mapping Annual Meeting*, 2008.

Lauren Atlas, Matthew Davidson, Kate Dahl, Martin Lindquist and Tor Wager. "Tracing Pain Pathways from Stimulus to Report". *Cognitive Neuroscience Society*, 2008.

- Matthew Davidson, Lauren Atlas, Martin Lindquist, Niall Bolger and Tor Wager. "The Multilevel Mediation/Moderation (M3) Framework: A Strategy for Pathway Analysis from fMRI Data". *Cognitive Neuroscience Society*, 2008.
- Ji-Meng Loh, Tor Wager, and Martin Lindquist. "Detecting Model Mis-specification in fMRI using Scan Statistics". *Human Brain Mapping Annual Meeting*, 2007.
- Martin Lindquist, Cun-Hui Zhang, Gary Glover and Lawrence Shepp. "Rapid 3D fMRI of the Hemodynamic Response Function". *Human Brain Mapping Annual Meeting*, 2007.
- Martin Lindquist, Cun-Hui Zhang, Gary Glover and Lawrence Shepp. "Rapid 3D fMRI using an Echo-Volumar Imaging Trajectory". *Proceedings of the 15th ISMRM Annual Meeting*. Berlin, 2007.
- William Ottowitz, Darin Dougherty, Martin Lindquist, Alan Fischman, Janet Hall. "Cortisol Levels Covary with Anterior Cingulate Cortex rCMR During High Dose Estrogen: A PET Study". *Journal of Neuropsychiatry and Clinical Neurosciences*, 19(2), Spring 2007.
- Martin Lindquist and Tor Wager. "Spatial Smoothing in fMRI using Prolate Spheroidal Wave Functions". *Human Brain Mapping Annual Meeting*, 2006.
- Martin Lindquist and Tor Wager. "A novel approach to modeling state-related fMRI activity using change-point theory". *Human Brain Mapping Annual Meeting*, 2006.
- Tor Wager, Christian Waugh, Martin Lindquist, Barbara Fredrickson, Douglas Noll, Stephen Taylor. "The role of ventromedial prefrontal cortex in anxiety and emotional resilience". *Human Brain Mapping Annual Meeting*, 2006.
- Jack Grinband, Tor Wager, Martin Lindquist, Vince Ferrera and Joy Hirsch. "Modeling reaction times in event-related fMRI designs". *Human Brain Mapping Annual Meeting*, 2006.
- William Ottowitz, Martin Lindquist, David Derro, Darin Dougherty, Alan Fischman and Janet Hall. "Lateralization of Amygdalar-Hippocampal Connectivity During Estrogen Infusion: Relevance to the Depressive Disorders". *Human Brain Mapping Annual Meeting*, 2006.
- William Ottowitz, Martin Lindquist, David Derro, Darin Dougherty, Alan Fischman and Janet Hall. "Correlation of Suprathalamic Neural Network Activity with the Hypothalamus During Estrogen Infusion in Women: A PET Study Employing Path Analysis in Evaluation of the HPO Axis". *Endo* 2006.
- Martin Lindquist and Tor Wager. "Modeling the Hemodynamic Response Function using Inverse Logit Functions". *Human Brain Mapping Annual Meeting*, 2005.
- Martin Lindquist, Cun-Hui Zhang, Gary Glover, Lawrence Shepp and Qing Yang. "The Generalized 2D-PSWF Method for Tracking Dynamic Signal with High Temporal Resolution". *Proceedings of the 13th ISMRM Annual Meeting*. Miami, 2005.
- Martin Lindquist. "Fast Functional Magnetic Resonance Imaging". *Proceedings of SPIE* Vol. 4478, p. 163-171, December 2001.
- M. Lindquist, Q. X. Yang, C. H. Zhang, R. J. Demeure, M. B. Smith, and L. Shepp, "ROI Tailored k-Space Sampling and a 2D Prolate Spheroidal Wave Function Filter: Reduction of Spectral Contamination in Spectroscopic Imaging". *Proceedings of the 8th ISMRM Annual Meeting*, Denver, p. 1842, 2000.

Grants

NIH (Co-Investigator), *Brain pathways in social evaluative threat*, 2009-2010.

National Science Foundation (Principal Investigator), *Collaborative Research: Fast Functional MRI*, 2008-2011.

National Science Foundation (Co-Investigator), *Multilevel mediation techniques for fMRI*, P.I. Wager, 2007 - 2010

NIH/NCCAM (Co-Investigator), *The neural bases of placebo effects and their relation to regulatory processes*, P.I. Wager 2006-2010

Gatsby Initiative in Brain Circuitry Pilot Project Grant (Consultant), *Neuroinformatics of expectancy in pain*, P.I. Wager, 2006-2007

NIH/NIMH (Consultant), *Cognition-Emotion-HPA Interaction: Translational Network*, P.I. Liberzon, 2005 – 2008

National Science Foundation (Consultant), *Statistical Methods in Fast Functional MRI*, P.I. Shepp 2002 –2008

Invited Conference Presentations

Multilevel modeling of BOLD activity for functional studies

- Educational course in Advanced fMRI, Human Brain Mapping, San Francisco, CA. June 2009.

Analyzing fMRI data with unknown brain activation profiles

- Eastern North American Region/International Biometric Society, San Antonio Texas 2009

Modeling fMRI data with uncertain hemodynamic response or stimulus functions

- Summer School: Mathematics in Brain Imaging, Institute for Pure & Applied Mathematics, UCLA, Los Angeles, CA, July 2008

Multilevel Linear Modeling: Within-and Between-Subjects Modeling of fMRI Time Series

- Educational course in Advanced fMRI, Human Brain Mapping, Melbourne, Australia. June 2008.

Analyzing High Temporal Resolution fMRI data

- Eastern North American Region/International Biometric Society, Arlington, Virginia 2008

Negative Dip Imaging in Bold fMRI (*Jointly presented with Cun-Hui Zhang and Larry Shepp*)

- Advances in High Resolution PET & Ultra High Field MRI – Toward In Vivo Functional Molecular Imaging, Seoul, South Korea. April 2006

What Can We Learn from Statistics Departments Who Prepare Graduate Students to Teach Statistics?

- First United States Conference on Teaching Statistics, Ohio State University, Columbus, Ohio. May 2005. (*Panelist*)

Mathematical and Statistical Problems Relating to Functional MRI

- Sixth North American New Researchers Conference, University of California, Davis. July 2003.

Fast Functional Magnetic Resonance Imaging (*Jointly presented with L. Shepp*)

- International Symposium on Optical Science and Technology, San Diego, CA. July 2001.

Fast Functional Magnetic Resonance Imaging via Wavelets (*Jointly presented with L. Shepp*)

- Symposium on Inference for Stochastic Processes, Athens, GA. May 2000.

Presentations

Modeling Brain Pathways Using Functional Path Analysis

- Joint Statistical Meeting, Washington DC. August 2009.

Understanding fMRI Data: From Acquisition to Analysis

- Child Psychiatry Fellowship Seminar, Columbia University, New York, NY. September 2008.

Analyzing High Temporal Resolution fMRI data

- Cognitive Neuroscience Division, Columbia University Medical Center, New York, NY. November 2008.
- Department of Biostatistics, Johns Hopkins University, Baltimore, MD. September 2008.

Logistic Regression with fMRI Time Series Predictors

- Joint Statistical Meeting, Denver, WA. August 2008.

Analyzing fMRI Data with Unknown Brain Activation Profiles

- Division of Biostatistics, New York State Psychiatric Institute, New York, NY. March 2009
- Merck, Rahway, NJ. June 2008.

Efficient Modeling of fMRI Data -Basis Sets & Model Diagnostics

- Merck, Rahway, NJ. June 2008.

Estimating distributions of onset times and durations from multi-subject fMRI studies

- Human Brain Mapping, Melbourne, Australia. June 2008.

The Acquisition and Statistical Analysis of High Temporal Resolution 3D fMRI Data

- Joint Statistical Meeting, Salt lake City, Utah. August 2007.
- Neuroscience Research Institute (NRI), Gachon University of Medicine and Science, Incheon, Korea. August 2007.

Rapid 3D functional MRI

- fMRI Research Center, Columbia University, New York, NY. March 2007.
- New York Psychiatric Institute, Columbia University, New York, NY. November 2006.
- Merck, Rahway, NJ. November 2006.

Modeling State-Related fMRI Activity using Change-point Theory

- Merck, Rahway, NJ. November 2006.
- Joint Statistical Meeting, Seattle, WA. August 2006.

Rapid 3D fMRI of the Hemodynamic Response Function

- Department of Psychology, Columbia University, NY, NY. October 2006

Negative Dip Imaging in Bold fMRI

- Department of Statistics, Rutgers University, New Brunswick, NJ. May 2006.

Real-Time functional MRI

- Department of Statistics, Syracuse University, Syracuse, NY. October 2005.

Statistical Methods for Fast Functional MRI

- Department of Mathematics and Statistics, Boston University, Boston, MA. April 2004
- New York State Psychiatric Institute, Columbia University, New York, NY. February 2004

Mathematical and Statistical Problems Relating to fMRI

- Department of Statistics, University of Michigan, Ann Arbor, MI. February 2002.
- Department of Statistics, Columbia University, New York, NY. February 2002.
- Department of Statistics, University of Minnesota, Minneapolis, MN. February 2002.
- Department of Statistics, Purdue University, Lafayette, IN. January 2002.

Two Statistical Applications Yielding Basic Insights into Math (*Jointly presented with L. Shepp*)

- Department of Statistics, Stanford University, Palo Alto, CA. July 2001.

Fast Functional MRI Using Two-Dimensional Prolate Spheroidal Wavefunctions

- Center for Magnetic Resonance Research, University of Minnesota, Minneapolis, MN. June 2001.
- Brain Program, Brown University, Providence, RI. June 2001.

A Super-Fast Negative Dip is Needed for Higher Cognition (*Jointly presented with L. Shepp*)

- Department of Radiology, Stanford University, Palo Alto, CA. August 2000.

From Emission Tomography to fMRI (*Jointly presented with L. Shepp*)

- Department of Statistics, Stanford University, Palo Alto, CA. July 2000.

Non-Homogenous Type II Counter Models for the Release of Neurotransmitters

- Department of Statistics, Royal Institute of Technology, Stockholm, Sweden. February 1997.

Workshops

Workshop on Estimating Effects and Correlations in Neuroimaging Data

- Columbia University. July 15, 2009
- Co-Organizer of workshop with 4 speakers and 150 registered attendees.

Workshop on Time Series Analysis in Neuroscience

- Columbia University. April 14, 2009
- Co-Organizer of workshop with 7 speakers and 60 registered attendees.

Workshop on Functional Magnetic Resonance Imaging

- New York State Psychiatric Institute. June 3-5, 2008
- Principal Lecturer, with T. Wager

Advanced Statistical Methods for Functional MRI

- Merck, Rahway, NJ. November 9-10, 2005
- Organizer and sole lecturer for 2 day course (10 hours)

Reconnect Satellite Conference 2005: *Reconnecting Teaching Faculty to the Mathematical Sciences Enterprise* - The Mathematics of Medical Imaging

- Spelman College, Atlanta, GA. July 17-23, 2005
- Principal Lecturer, with L. Shepp

Statistical Methods for Functional MRI

- Merck, Rahway, NJ. April 18-20, 2005
- Organizer and sole lecturer for 3 day course (15 hours)

Professional Service

Editorial Board:

- NeuroImage

Conference Program Committee:

- 2nd International Conference on Image and Signal Processing (CISP'09), Tianjin, China. October 2009.

Conference Chair:

- Modeling & Analysis: Neuroinformatics; Human Brain Mapping, San Francisco, CA. June 2009.

Referee:

- Journal of the American Statistical Association
- International Journal of Imaging Systems and Technology
- IEEE Transactions on Medical Imaging
- Computational Statistics and Data Analysis
- NeuroImage
- Human Brain Mapping
- Statistica Sinica
- Brain Imaging and Behavior
- Journal of Neuroscience Methods
- IEEE Journal of Selected Topics in Signal Processing
- Journal of Magnetic Resonance Imaging
- Prentice Hall
- National Science Foundation – Division of Mathematical Sciences

Departmental Service

At Columbia University:

- Co-organizer of 2009 Special Focus Series: “Statistical methods in Neuroscience”
- Committee on PhD admissions (2009)
- Committee in charge of “Applied Statistics” qualifying exam.
- Department Liaison to Summer Session (2008-2009)
- Curriculum committee (2008)
- Junior search committee (2007 & 2008 & 2009)
- A variety of undergraduate curriculum committees – joint major, project webpage, textbook and course design (2004-2008).
- Designed courses "Introduction to Applied Statistics" (2005-2006) and "Statistical Methods in functional MRI" (2004-2005)
- Organized departmental seminar (2003-2004)
- Departmental representative to QMSS program (2002-2004)
- Committee on PhD admissions (2003-2007)
- PhD Mentoring: Lucy Robinson (2006), Ragnheidur Haraldsdottir (2007)

At Rutgers University:

- Graduate student representative (2000-2001)

Academic Awards

2001	Conference Travel Award <i>Rutgers University; The Graduate School New Brunswick</i>
2000	Travel Stipend for Visiting Scholar position <i>Rutgers University; The Graduate School New Brunswick</i>
1997-1999	Excellence Fellowship for Graduate Studies in Statistics <i>Rutgers University; The Graduate School New Brunswick</i>
1996	Travel Stipend for Study Abroad <i>Royal Institute of Technology (KTH); Stockholm, Sweden</i>

Teaching

At Columbia University:

- W1111 – Introduction to Statistics
- W2110 – Introduction to Applied Statistics (Course developer)
- W4105 – Probability
- W4437 – Time Series Analysis
- G6210D - Statistical Consulting
- G6600 - Teaching Statistics at the University Level
- G8335 - Statistical Methods for fMRI (Course developer)

At University of Minnesota:

- Math 3118 – Topics in Elementary Mathematics II

At Rutgers University:

- Statistics 390 - Introductory Computing for Statistics

Oral and Dissertation Committees

- Lucy Robinson (Principal advisor)
- Ragnheidur Haraldsdottir (Principal advisor)
- Hui Wang
- Daqing Zhang
- Philip Reiss (Biostatistics)
- Michael Shnaidman (Committee chair)
- Yu Liang
- Yu Zheng
- Yixin Fang
- Olivier Nimeskern (Committee chair)
- Yi-Hsuan Lee (Committee chair)
- Spiro Pantazatos (Physiology and Cellular Biophysics)
- Lauren Leotti (Psychology)

Professional Memberships

- American Statistical Association
- International Society for Magnetic Resonance in Medicine
- Organization for Human Brain Mapping

Additional Information

- Swedish citizenship
- Permanent U.S. Resident.
- Languages: Native Swedish and English. Basic French