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Charity Johanna Morgan

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Current Position

University of Alabama at Birmingham, Birmingham, AL 2008-Present
Post-Doctoral Trainee in the Department of Biostatistics

Education

Harvard University, Cambridge, MA 2003-2008
Ph.D. Statistics (November 2008)
A.M. Statistics (March 2005)

Washington University, St. Louis, MO 1999-2003
B.A. Mathematics, *summa cum laude*

Intercollegiate Center for Classical Studies, Rome, Italy 2002

Academic Honors

Ross Middlemiss Prize in Mathematics 2003
Phi Beta Kappa Honor Society 2002
John B. Ervin Scholars program 1999-2003

Research Projects

Approximations for Logistic Regression

Research supervised by Donald B. Rubin in the Department of Statistics at Harvard University. We compare three different approximations for logistic regression and develop a new method of evaluating the quality of an approximation.

Deception and Individual Differences in Cognitive Abilities

Research under the supervision of Stephen M. Kosslyn in the Department of Psychology at Harvard University and in collaboration with Julia B. Tolley formerly of the Department of Psychology at Harvard University. We demonstrate that individual differences in cognitive abilities can predict the amount of time required to tell different types of lies.

Alternate Manifestations of Schizophrenia in First Degree Relatives of Schizophrenics

Research under the supervision of Donald B. Rubin in the Department of Statistics at Harvard University and in collaboration with Deborah L. Levy, McLean Hospital in Belmont, MA, and Mark F. Lenzenweger in the Department of Psychology at State University of New York at Binghamton. Alternate manifestations of schizophrenia are traits that are associated with the clinical disorder and aggregate in relatives of schizophrenia patients. We attempt to use these alternate manifestations to discover more information about the heritability of schizophrenia.

Publications

Morgan, C. J., LeSage, J. B., and Kosslyn, S. M. (2008). "Types of Deception Revealed by Individual Differences in Cognitive Abilities.", *Social Neuroscience*, in press.

Presentations and Posters

"An Overview of Latent Class Analysis." Presentation given at the International Meeting of the Psychometric Society, Tillburg, The Netherlands. July 5-8, 2005.

"A Comparison of Approximations for Logistic Regression." Presentation given at the Institut für Arbeitsmarkt- und Berufsforschung, Nuremberg, Germany. July 12, 2005.

"A Comparison of Approximations for Logistic Regression." Presentation given at the Joint Statistical Meetings, Seattle, Washington. August 7-10, 2006.

"Uncovering the Heritability of Schizophrenia: A Finite Mixture Model Approach." Poster given at Harvard University Department of Statistics 50th Anniversary Celebration and Symposium, Cambridge, Massachusetts. October 26-27, 2007.

Additional Work Experience

Washington University, St. Louis, MO August 2003-May 2003
Grading Assistant. Graded weekly homework assignments.

Washington University Student Education Service, St. Louis, MO August 2001-May 2003
Peer Tutor. Tutored students in various mathematics and statistics courses.

Liberty National Insurance Company, Birmingham, AL June 2002-August 2002
Actuarial Intern. Assisted actuaries with filing, data entry, and program writing.

Washington University Psychology Department, St. Louis, MO August 1999–December 1999
Research Assistant. Ran participants through experiments and entered data, supervised by Dr. Erik Thompson.

Teaching Experience

Department of Statistics, Harvard University, Head Teaching Fellow	Fall 2006
Helped to manage a large undergraduate course in Introduction to Probability, and led a group of four teaching fellows.	
Department of Statistics, Harvard University, Teaching Fellow	Fall 2004-Present
Taught weekly sections, met with students in weekly office hours, graded papers, and examinations.	
Statistics 110: Introduction to Probability (Dr. Jose H. Blanchet, Dr. Joseph Blitzstein)	2004, 2006
Statistics 111: Introduction to Theoretical Statistics (Dr. S.C. Samuel Kou)	2005, 2007
Statistics 214: Causal Inference (Dr. Donald B. Rubin and Dr. Guido W. Imbens)	2005
Statistics 149: Introduction to Generalized Linear Models (Dr. Mark Irwin)	2006
Statistics 249: Intermediate Generalized Linear Models (Dr. Rima Izem)	2006
Statistics 104: Introduction to Quantitative Methods (Dr. Kenneth Stanley)	2007

References

Professor Donald B. Rubin
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