

LACEY GUNTER

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EDUCATION

University of Michigan, Ann Arbor, Michigan
Ph.D. Candidate in Statistics (Expected graduation date December 2008)

Michigan State University, East Lansing, Michigan
M.S. Statistics, December 2002

Utah State University, Logan, Utah
B.S. Statistics (University and Departmental Honors), Minor: Computer Science, May 2001

SELECTED PUBLICATIONS

Gunter, L., Zhu, J., Murphy, S. (2008) Variable Selection for Qualitative Interactions. *To be submitted.*

Gunter, L., Zhu, J., Murphy, S. (2007) Variable Selection for Optimal Decision Making. *11th Conference on Artificial Intelligence in Medicine, AIME 2007, LNAI 4594, Amsterdam, Springer-Verlag.*

Gunter, L., Zhu, J. (2007): Efficient Computation and Model Selection for the Support Vector Regression. *Neural Computation*, Vol. 19, No. 6, 1633-1655.

Symonds, T., Spino, C., Sisson, M., Soni, P., Martin, M., Gunter, L., Patrick, D.L. (2007) Methods to Determine the Minimum Important Difference for a Sexual Event Diary Used by Postmenopausal Women with Hypoactive Sexual Desire Disorder. *Journal of Sexual Medicine*, Vol. 4, Is. 5, 1328-1335.

Gunter, L., Zhu, J. (2005): Computing the Solution Path for the Regularized Support Vector Regression. *Neural Information Processing Systems 17.*

RESEARCH EXPERIENCE

University Of Michigan, Ann Arbor, Michigan
Statistics Graduate Research Assistant September 2004 to Present
Researched sequential decision making algorithms and their use in clinical studies, developed new techniques for variable selection in sequential decision making applications, data management and analysis of sequential randomized clinical trials

Pfizer Global Research and Development, Ann Arbor, Michigan
Clinical Biostatistics Intern June 2004 to August 2004
Researched determination of clinical significance for drug efficacy in clinical trials, aided senior statisticians in clinical trial design and statistical analysis of clinical trial outcomes

U.S. Department of Energy, Richland, Washington
Statistics Intern June 2001 to August 2001
Performed statistical analysis on fuel data, wrote statistical and graphical programs in Matlab, aided in data entry

TEACHING EXPERIENCE

University Of Michigan, Ann Arbor, Michigan

Statistics Graduate Student Instructor

January 2003 to Present

Lead recitation, helped create curriculum, assigned grades for approximately 30-60 students

Statistics 500 Graduate Level Applied Statistics I - Winter 2006

Statistics 413 General Linear Models and Applications - Winter 2004

Statistics 350 Introduction to Statistics and Data Analysis - Winter and Fall 2003

Michigan State University, East Lansing, Michigan

Statistics Teaching Assistant

September 2001 to December 2002

Lead recitation, helped create curriculum, assigned grades for approximately 60 students

Statistics 200 Statistical Methods – Fall 2001, Fall and Spring 2002

Independently taught and graded for approximately 30 students

Statistics 200 Statistical Methods – Summer 2002

RESEARCH INTERESTS

Variable selection and model estimation of machine learning applications (supervised and reinforcement learning), Biostatistic and Computational Statistic Applications

COMPUTER SKILLS

Operating Systems: Windows, Macintosh, UNIX

General Programming: C++, Java, HTML, Graphics

Statistical Programming: R/S-Plus, SAS, Matlab, SPSS, nVIZn

AWARDS AND HONORS

Rackham Travel Grant 2007

University of Michigan Graduate Student Assistantship 2002-Present

Phi Kappa Phi 2002

Michigan State University Graduate Student Fellowship and Assistantship 2001-2002

Utah State University Morse Honors Department Merit Scholarship 2000

Undergraduate Research and Creative Opportunities Grant 2000-2001

Utah State University Presidential Scholarship 1998-2001

Mortar Board Honors Society 2001

PRESENTATIONS AND CONFERENCE TALKS

Variable Selection for Optimal Decision Making. Joint with J. Zhu and S. Murphy, Joint Statistical Meeting, Salt Lake City, Utah, July 2007

Variable Selection for Decision Making in Mental Health. Joint with J. Zhu and S. Murphy, Poster Presentation at the Eighteenth Annual Albert J. Silverman Conference, Ann Arbor, Michigan, June 2007.

Variable Selection for Decision Making Applications. Joint with J. Zhu and S. Murphy, University of Michigan Department of Electrical Engineering and Computer Science Toyota AI Seminar, April 2007.

Variable Selection for Optimal Decision Making. Joint with J. Zhu and S. Murphy, Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), Ann Arbor, March 2007.