

# Amanda S Hering

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## Research Interests

Spatial and space-time models, forecasting, model-validation, multivariate time series, wind energy and environmental applications

## Education

Texas A&M University College Station, TX	PhD (May 2009) Advisor: Marc G. Genton	Statistics	GPR: 3.94
Disseration Title:	<i>Space-Time Wind Speed Modeling and Spatial Forecast Accuracy Test</i>		
Montana State University Bozeman, MT	M.S. (2002) Advisor: Steve Cherry	Statistics	GPR: 4.0
Baylor University Waco, TX	B.S. (1999) Summa Cum Laude	Mathematics	GPR: 4.0

## Publications

- Hering, A.S., Bell, C.L., and Genton, M.G. (2009) Modeling Spatio-Temporal Wildfire Ignition Point Patterns. *Environmental and Ecological Statistics*, Special Issue on Statistics for Wildfire Processes, **16**, *Now Online*.
- Genton, M.G. and Hering, A.S. (2007) Blowing in the Wind. *Significance*, **4**, 11-14.
- Hering, A.S. and Genton, M.G. (2008) Powering up with Space-Time Wind Forecasting. *Journal of the American Statistical Association*, *Invited Revision*.
- Hering, A.S. and Genton, M.G. (2008) Comparing Accuracy of Spatial Forecasts. *In Progress*.
- Hering, A.S. and Genton, M.G. (2008) Simulating Space-Time Wind Vector. *In Progress*.

## Awards

- Aug 2008 P.E.O. Scholar Award Recipient  
Selected as one of 85 recipients from 800 women nominated nationwide who are within two years of earning a PhD degree
- Aug 2008 ASA Section on Statistics in the Environment Student Paper Competition Winner for the manuscript "Powering up with Space-Time Wind Forecasting"
- Jun 2008 International Institute of Forecasters sponsorship to attend the International Symposium on Forecasting; Nice, France
- Jun 2008 Rudd Mayer Memorial Sponsorship to attend American Wind Energy Association's WINDPOWER 2008 Conference; Houston, TX
- Oct 2007 ASA Section on Statistics in the Environment sponsorship to attend A Statistical Consensus on Global Warming Conference; Boulder, CO

## Presentations

- Oct 23, 2008 *Comparing Accuracy of Spatial Forecasts*, Contributed Poster, Workshop on Environmetrics; Boulder, Colorado
- Aug 4, 2008 *Wind Forecasting Models and Loss Function*, Contributed Session, Joint Statistical Meetings; Denver, Colorado
- Jun 24, 2008 *Powering Up with Space-Time Wind Forecasting*, Invited Session, International Symposium on Forecasting; Nice, France
- Jun 03, 2008 *Powering Up with Short-Term Statistical Space-Time Wind Forecasting*, Scientific Track, WINDPOWER 2008; Houston, TX
- Mar 14, 2008 *Powering Up with Space-Time Wind Forecasting*, Seminar, University of Geneva; Geneva, Switzerland
- Jul 31, 2007 *Models for Short-Term Wind Speed Prediction*, Invited Session Joint Statistical Meetings; Salt Lake City, UT
- Jul 30, 2007 *Statistical Approaches to El Niño Forecasting*, Invited Poster, Joint Statistical Meetings; Salt Lake City, UT; Presented by Souparno Ghosh.
- Jul 06, 2007 *Powering up with Space-Time Wind Forecasting*, GSP Informal Seminar, Geophysical Statistics Project, National Center for Atmospheric Research; Boulder, CO
- Oct 27, 2006 *Modeling Spatio-Temporal Wildfire Ignition Point Patterns*, Poster, Multivariate Methods in Environmetrics; Chicago, IL

## Research Experience

- Jan 2007-present Graduate Research Assistant, TAMU  
Supported by an NSF-CMG grant, collaborating with atmospheric science faculty to build forecasting models for El Niño sea surface temperatures
- Jul 2007 Guest Researcher within the Geophysical Statistics Project at the National Center for Atmospheric Research, Boulder, CO  
Investigated statistical problems in global climate modeling
- Jun 2006 Graduate Research Assistant, TAMU  
Analyzed cancer presence and adduct levels in mice treated with carcinogens

## Teaching Experience

- Jun 2008 College Board Advanced Placement Statistics Reader, Louisville, KY  
Scored free-response questions on over 1000 exams
- Aug 2005-Dec 2006 Graduate Teaching Assistant, TAMU  
Full teaching responsibility for ~ 100 students per semester in STAT 302  
Independently developed lecture notes, exams, activities, and quizzes
- Jun 2005-Aug 2005 Online Homework and Distance Learning Course Programming, TAMU  
Programmed questions for online homework database in STAT 211

## **Teaching Experience** *continued*

- Aug 2004-May 2005 Graduate Assistant Grader, TAMU  
Graded assignments for 3 sections of STAT 302 and tutored in Help Lab
- Aug 2002-May 2004 High School Mathematics Teacher, Somerville High School, Texas  
Certified Texas Mathematics (8-12) educator  
Full teaching responsibility for Algebra I, II, Precalculus, and Calculus
- Aug 2000-Aug 2002 Graduate Teaching Assistant, MSU  
Full teaching responsibility for  $\sim 30$  students per semester in either  
MATH 170, STAT 216, or STAT 217

## **Service**

- 2005-present Brown Bag Seminar Coordinator for Statistics Department at TAMU  
Schedule and introduce speakers in over 20 continuing education seminars to date
- 2005-present College of Science Graduate Student Representative for the Statistics Department  
Nominate and vote on candidates for university-wide teaching awards
- 2006-2007 Southeast Texas Chapter of the ASA Secretary

## **Organizations**

- American Statistical Association member  
Institute of Mathematical Statistics member  
International Institute of Forecasters member  
Phi Beta Kappa member