

Scott R. Preston

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Education

PhD. Statistics	1993
The Pennsylvania State University, University Park, Pennsylvania	
B. S. Mathematics	1982
The University of Wisconsin, Madison, Wisconsin	

Employment

The State University of New York, College at Oswego Oswego, New York	1993-present
Assistant Professor, Department of Mathematics	
Omnicom, Inc. New York, New York	2005-2006
Statistical Consultant	
The Pennsylvania State University University Park, Pennsylvania	1987-1993
Instructor and Graduate Assistant, Department of Statistics	
The Minitab Corporation State College, Pennsylvania	1990-1991
Statistical software development and testing	

Publications

Published

“The Effects of Field Mowing on Adult Butterfly Assemblages in Central New York State” (with Pete Weber, Biology, Michael Dlugos, SUNY Binghamton, Andrew P. Nelson, Rice Creek Field Station). *American Midland Naturalist*, v.28, n.2 (2008).

“Assessing the U.S. Senate Vote on the Corporate Average Fuel Economy Standard.” *Journal of Statistics Education*. v.14, n.2 (2006).

“Teaching Prediction Intervals.” *Journal of Statistics Education*, v.8, n.3 (2000).

“Sign-Score Tests For an Order Restricted Alternative in the One-Way Layout” (with Thomas A. Ryan, Jr.), in the *Proceedings of Interface '95: A Symposium of Computing Science and Statistics*.

Submitted

“Revisiting the Interlanguage Object: Native Speaker Attitudes toward Japanese Speech Styles,” (with Judith L. Stone, Stanford University). Invited for resubmission to the *Modern Language Journal*.

Electronic Media

Introduction to Statistics. Produced for and presented on public television from 1995-1997 via Time Warner Cable. Four sets of 26 one-hour presentations, archived on videotape at the Office of Distance Learning/Learning Resources Center.

The Statistics Companion. Internet site with over 150 documents supporting statistics courses at SUNY Oswego, and providing general information about statistical science.

Scholarly Activity

National Science Foundation Grants

Research Experiences in Meteorology—Integration in Science, Mathematics and Technology 2000-2003

NSF Award # 9809639.

Al Stamm and Jack Narayan, Principle Investigators.

Multicampus Science, Mathematics and Technology Reform 1999-2001

NSF Award # 9950803.

Jack Narayan, Principle Investigator.

Curriculum Enhancement Grants

A Calculus Based Applied Statistics Course 1999

Mathematical Applications in the Biological Sciences 1997

with Kemal Mohamed, Biology.

The Math 158 Home Page 1997

<http://www.oswego.edu/~srp/stats/>

Curriculum Development Support

Funding to support the development of a distance learning (televised) course. Funding included support for broadcast training. 1994-1996

Course Development

Mathematics 550 <i>Statistics and Classroom Research</i>	2008
Core course in the Master of Arts in Teaching program. Approved in 2008. To be taught Fall 2008.	
Mathematics 318 <i>Statistics in the Sciences</i>	2000
Elective service course designed for students with strong mathematics skills, majoring in the physical sciences, economics and mathematics.	
Mathematics 179 <i>Measuring Life</i>	1998
Elective service course designed for students majoring in the natural sciences and satisfying the General Education Knowledge Foundations requirement.	
Mathematics 350 <i>Introduction to Probability Theory</i>	1997
Revised core course for Mathematics Secondary Education majors.	
Mathematics 158 <i>Introduction to Statistics</i>	1995-1997
Distance Learning version of the course. Responsible for creation of all preproduction materials and subsequent televised presentations.	

Referee

<i>Communications in Statistics</i>	2003
<i>Computational Statistics and Data Analysis</i>	2005

Sponsored Student Presentations

- “Does Field Mowing Affect Butterfly Abundance?” Presented by Mike Dlugos ('02, Biology). Quest 2001. Cosponsored with Peter Weber.
- “Prediction Intervals: Exact Comparisons for Normally Distributed Data.” Presented by Megan Darnell ('00, Mathematics). Quest 2000.
- “A New Index of Fit for Categorical Data.” Presented by Tara Erb ('95, Mathematics). Quest 1995.

Presentations

- “Avian Influenza as the Cause of Late Pleistocene Mammalian Megafaunal Extinctions in the Americas.” With J. Aldean Lackey and B. Diane Chepko-Sade. *The American Society of Mammologists*, June 19, 2006.
- “Strategies for Teaching Confidence Intervals.” *Appalachian Regional Conference on Teaching Statistics*, March 30, 2003.

“Research Experiences in Meteorology—Science, Mathematics, and Technology.” With Len G. Keshishian, Alfred J. Stamm and Robert J. Ballantine. *Annual Meetings of the American Meteorological Association*, January 13-18, 2002.

“Curve Fitting 101.” *Conference 2000*, October 10, 2000.

“Probability 0.5.” *Conference 2000*, October 10, 2000.

“Making Prediction Intervals Work in Your Classroom.” *Joint Statistical Meetings of the American Statistical Association*, August 13–17, 2000.

“Regression Routines On Handheld Calculators.” *Meeting of the Seaway Section of the Mathematical Association of America*, April 15, 2000.

“Methodologies for Comparing Prediction Tactics, and Some Comparisons.” *Quest 2000*, April 19, 2000.

“Sign-Score Tests For an Order Restricted Alternative in the One-Way Layout.” *A Symposium of Computing Science and Statistics*, Pittsburgh, PA, June 1995. Invited address.

Conference and Workshop Attendance

Eric Gardner (Memorial) Conference, Auburn, NY, September 2005.

Eric Gardner (Memorial) Conference, Auburn, NY, September 2004.

Appalachian Regional Conference on Teaching Statistics, March 2003.

Joint Statistical Meetings of the American Statistical Association, August 2000.

Meeting of the Seaway Section of the Mathematical Association of American, April 2000.

International Conference on Technology in Collegiate Mathematics, New Orleans, LA, November 1998.

Eric Gardner (Memorial) Conference, Auburn, NY, September 1998.

Beyond the Formula II, Rochester NY, July 1998.

Presenting Data and Information (Edward Tufte), Boston, MA, May 1998.

Eric Gardner (Memorial) Conference, Auburn, NY, September 1997.

Eric Gardner (Memorial) Conference, Auburn, NY, September 1996.

What Works II: Postsecondary Education in the 21st Century, Pennsylvania State University, June 1996.

Interface '95: Statistics and Manufacturing with Subthemes in Environmental Statistics, Graphics and Imaging. Pittsburgh, PA, June 1995.

An Institute: Teaching and Learning on Television. Albany, NY, August 1994.

Consulting

Statistic analysis and interpretation for research on the relationship between weather and butterfly abundance performed under the supervision of Dr. Pete Weber, (retired) Biology. 2008.

Statistic analysis and interpretation for research by Dr. Pete Weber and Joel Ralston, Biology. 2005 – 2007. Citation in “Breeding Birds in Old Fields in Central New York State in Relation to Field Mowing,” published by the Rice Creek Field Station, 2008.

Statistic analysis and interpretation for research on the effect of groundwater contamination on the extinction of North American mammals by Drs. Al Lackey and Diane Chepko-Sade. 2005 – 2007.

Statistical support for research by Dr. James A. Mackenzie, Biology. 2005.

Statistical support for research by Marcia Burrell, 2005.

Statistical support for research into the behavioral effects of interventions on sea horses and lizards, conducted by Dr. Diane Chepko-Sade, Biology. 2005.

Consultation with Onmicom Group, a multinational holding company for advertising firms. Advice on implementations of statistical sampling to address the company’s unique accounting and audit issues. 2005-ongoing.

Statistical analysis for survey analysis supporting research in linguistics by Judith L. Stone of Stanford University. 2004 – ongoing.

Statistic analysis and interpretation for research on butterfly abundance performed under the supervision of Dr. Pete Weber, Biology. 2001 – ongoing.

Statistical support to Dr. Edgar Große Westhoff of Wilo Group, a German pump manufacturer. 2004.

Statistical support for research by Dr. Scott Steiger of the Meterology Department. 2003-4.

Statistical support and data analysis for Kirsten Parsons’ report on NCATE certification by the SUNY Oswego School of Education. 2004.

Statistical support for research by Diann Jackson, Assistant Director of the Rice Creek Field Station. 1999.

Statistical analysis in support of Biology faculty and student research. 1998-ongoing,

Service

Mathematics Department

Programs Committee	94/95, 95/96, 04/05, 05/06
Promotion, Retention & Tenure Committee	95/96, 99/00, 02/03, 04/05, 06/07, 07/08, 08/09.
Steering Committee	96/97, 97/98, 98/99, 99/00, 00/01, 01/02
Public Relations Committee	97/98, 98/99

College

- ICC Advisory Board, 96/97.
- Intercollegiate Athletic Board, 95/96 & 96/97.
- Faculty Adviser, Hewitt Union Board, 95/96.
- Committee on Scholarly and Creative Activities (SCAC), 00/01.
- Mathematics Department Representative to the Faculty Assembly, 01/02 & 02/03.
- Natural Science Steering Committee, 03.