

ULRIC J. LUND
Department of Statistics
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EDUCATIONAL PREPARATION

- PhD in Statistics: University of California, Santa Barbara (1998)
- MA in Statistics: University of California, Santa Barbara (1993)
- BA in Mathematics: University of California, San Diego (1990)

EMPLOYMENT

Current Position: Associate Professor

- (Fall 2001-Present) Department of Statistics, Cal Poly State University, San Luis Obispo

Prior Academic Experience

- (Fall 1998-Spring 1999) Department of Mathematics, Western Washington University
Visiting assistant professor, instructing upper division and graduate level mathematical statistics, and undergraduate calculus.
- (1994-1998) Department of Statistics, UCSB
Instructed courses in elementary statistics and discrete probability; led discussion sections for numerous courses in applied statistics, mathematical statistics, and time series analysis; instructed students in the use of SAS for regression and ANOVA models; teaching assistant for a graduate course introducing S-PLUS and modern regression models to biology students.
- (Spring 1998) Graduate School of Education, UCSB
Lecturer, instructing a statistical methodology course covering ANOVA, ANCOVA, multiple and logistic regression, log-linear analysis and non-parametric statistics.
- (Fall 1997) Department of Mathematics, Ventura College
Taught an applied mathematics course geared towards liberal arts students, covering topics in trigonometry, statistics, algebra, and business/economics.

Industry and Consulting Experience

- (Intermittently 2010-2011) EnviroManagement, Inc., Arroyo Grande CA
- (September 2008) Rinehart Law Offices, Campbell CA
- (September 2004) Sabin Metal Corporation, Scottsville NY
- (July 1999-August 2001) Environmental Risk Analysis, San Mateo CA
Analyzing large national survey data sets for Fortune 500 clients; developing and critiquing statistical models related to healthcare utilization and automobile crashworthiness; generating and presenting reports for clients.
- (October 2000-February 2001) Clinimetrics, San Jose, CA
Providing statistical programming and analysis of clinical trial data for clients in the pharmaceutical industry.

TEACHING AT CAL POLY

Courses Taught, and Year-Quarter

- STAT 130: Introduction to Statistical Reasoning
Year-Quarter: 02-1, 02-4, 03-2, 04-1, 05-2, 06-4, 07-1, 08-2, 10-1
- STAT 221: Introduction to Probability and Statistics
Year-Quarter: 05-4, 06-1
- STAT 251: Statistical Inference for Management I
Year-Quarter: 03-1, 04-4, 07-4, 08-4, 10-4, 11-1
- STAT 252: Statistical Inference for Management II
Year-Quarter: 05-3, 09-3
- STAT 312/542: Statistical Methods for Engineers
Year-Quarter: 01-4, 02-4, 03-4, 05-1, 07-3, 11-1
- STAT 313/513: Applied Experimental Design and Regression Models
Year-Quarter: 02-1, 03-1, 04-1, 05-1, 06-1
- STAT 321: Probability and Statistics for Engineers and Scientists
Year-Quarter: 04-2, 08-2
- STAT 330/530: Statistical Computing I: SAS
Year-Quarter: 03-4, 04-4, 05-4, 07-1, 08-4, 10-1, 10-4
- STAT 350: Probability and Random Processes for Engineers
Year-Quarter: 06-2, 07-2, 08-1, 09-1, 09-2, 10-2, 11-2
- STAT 419: Applied Multivariate Statistics
Year-Quarter: 05-2
- STAT 425: Probability Theory
Year-Quarter: 07-4
- STAT 430: Statistical Computing II: S-PLUS
Year-Quarter: 02-2, 03-2, 06-4
- STAT 465: Statistical Communication and Consulting
Year-Quarter: 09-2, 10-2, 11-2

Teaching Award

- Nominated: CFA Distinguished Educator Award, 2004-2005

Course Coordination

- Currently: STAT 330
Formerly: STAT 130, STAT 313/513, and STAT 430

Senior Project Supervision

- (June 2010) Audrey Bigelow
Title: “Eldercare Facilities Research for San Luis Obispo City Fire”
- (June 2008) Gabe Becker
Title: “A performance evaluation of meta-analysis on two by two tables under ideal conditions”
- (June 2008) Katherine Riestler
Title: “Amgen clinical trial missing sample data management project”
- (June 2007) Richele Benevent
Title: “Methods and Quality of Random Variate Generation, Including Generation from Spherical Distributions”
- (June 2007) Ariel Nikzad
Title: “Reflections on Statistical Consulting”
- (June 2006) Blake Sweeney
Title: “Analyzing Circular Data Using SAS Macros”
- (June 2006) Andrea Hessel
Title: “Statistical Interpretation of Corneal Pressure Due to Extended-Wear Contact Lenses”
- (June 2005) Alex Steiner
Title: “Seating Position and Risk of Injury”
- (June 2005) Michael Cummings
Title: “Data Display and Simulation of Circular Distributions Using SAS Macros”
- (June 2004) Kevin Kehoe
Title: “Circular Statistics and S-PLUS”
- (June 2004) Kristin Bishop
Title: “SAS Macros for Analyzing Circular Data”

Master's Thesis Committee Membership

- (August 2011) Michael Papa
College of Agriculture, Forestry Science
Thesis title: "Effects of Silvicultural Management on Coast Redwood Forest Composition, Density and Structure in Santa Cruz and San Mateo Counties"
- (June 2010) Valerie Loe
College of Agriculture, Forestry Science
Thesis title: Management Strategies for Pitch Canker Infected Año Nuevo Stands of Monterey Pine: Fifth Year Gap Regeneration Results
- (December 2007) Thitiwan Imyim
College of Agriculture, Dairy Science
Thesis title: "A determination of macro and micronutrients in NFDM from Western states collected during 2005-2006"
- (June 2006) Kelly Buja
College of Agriculture, Forestry Science
Thesis title: "Early Detection of Sudden Oak Death Based on Foliar Hosts"
- (June 2006) Jason Pinkerton
College of Agriculture, Forestry Science
Thesis title: "Silvicultural Management Strategies for Pitch Canker Infected Año Nuevo Stands of Monterey Pine: Second Year Gap Generation"
- (June 2005) Craig Macmillan
College of Agriculture, Crop Science
Thesis title: "A protocol for using the mite brushing machine for measuring densities of Willamette spider mites on grapes"
- (December 2004) Elicia Wise
College of Agriculture, Forestry Science
Thesis title: "First Year Survival of Native Monterey Pine Seedlings in Pitch Canker Infected Año Nuevo Stands"

PUBLICATIONS

- Loe, V., Wise, E., Pinkerton, J., Yun, D., Lund, U.J., Mark, W., Piirto, D. (In preparation), “Management Strategies for Pitch Canker Infected Año Nuevo Stands of Monterey Pine”.
- Lund, U.J. (Revised and resubmitted), “Monte Carlo Maximum Likelihood Circle-Fitting Using Circular Density Functions”, *Computational Statistics*.
- Barros, A.M.G., Pereira, J.M.C., Lund, U.J. (To appear), “Identifying geographical patterns of wildfire orientation: a watershed-based analysis”, *Forest Ecology and Management*.
- Hribar, L.J., DeMay, D.J., Lund, U.J. (2010), “The association between meteorological variables and the abundance of *Aedes taeniorhynchus* in the Florida Keys”, *Journal of Vector Ecology*, 35, 2, 339-346.
- Rice, E., Piirto, D., Larsen, R., Tietje, B., Cooper, R., and Lund U.J. (2008), “Identifying and Addressing Contemporary Issues in Central Coast Oak Woodlands”, *Proceedings of the 6th Symposium on Oak Woodlands*.
- Lund, U.J. (2007), Technical Report, “Statistical Analysis of Monterey Pine Seedling Growth and Survival at 24 Months”.
- Jammalamadaka, S.R. and Lund, U.J. (2006), “The effect of wind direction on ozone levels - a case study”, *Environmental and Ecological Statistics*, 13, 287-298.
- Agostinelli, C. and Lund, U.J. (2006), “The Circular Package, Version 0.3-6”; Circular statistics package for R software, available at <http://cran.stat.ucla.edu/index.html>.
- Lund, U.J. (2005), “The effect of seating location on the injury of properly restrained children in child safety seats”, *Accident Analysis and Prevention*, 37, 435-439.
- Lund, U.J. (2004), “CircStats: S-PLUS Functions for Circular Statistics, Version 2.0”, Software available at <http://statweb.calpoly.edu/lund/>. Update of Version 1.0 which accompanied the text *Topics in Circular Statistics*, World Scientific Press, Singapore, by Jammalamadaka, S.R. and SenGupta, A. (2001).
- Lund, U.J. (2003), “Statistical Adventures in Litigation”, *STATS Magazine*, No. 38.
- Lund, U.J. (2002), “Tree-based regression for a circular response”, *Communications in Statistics – Theory and Methods*, 31, 9, 1549-1560.
- Lund, U.J. and Jammalamadaka, S.R. (2000), “An entropy-based goodness of fit statistic for the von Mises distribution”, *Journal of Statistical Computation and Simulation*, 67, 4, 319-332.
- Lund, U.J. (1999), “Least circular distance regression for directional data”, *Journal of Applied Statistics*, 26, 6, 723-733.
- Lund, U.J. (1999), “Cluster analysis for directional data”, *Communications in Statistics – Simulation and Computation*, 28, 4, 1001-1009.
- Technical Report with W. David Conn, Patricia Ponce, and John Walker (2005), “The Cal Poly Partner’s Program: Factors Relating to Academic Performance”.
- Technical Report with W. David Conn, Patricia Ponce, and John Walker (2004), “Assessing High Academic Performance Among Cal Poly First Year Students”.

BOOK REVIEWS AND ARTICLES REFEREED

- Review of *Concepts and Controversies, 7th Edition*, by David S. Moore and William I. Notz; reviewed for W.H. Freeman (2008).
- Review of *A Handbook of Statistical Analyses Using R*, by B.S. Everitt and T. Hothorn; appears in *The American Statistician*, 61, 3, 277-278 (2007).
- Review of *An R and S-PLUS® Companion to Multivariate Analysis*, by Brian Everitt; appears in *Journal of the American Statistical Association*, 101, 474, 857-858 (2006).
- Review of *Investigating Statistical Concepts, Applications, and Methods*, by A. Rossman and B. Chance; reviewed for Brooks/Cole (2004).
- Review of *Probability and Statistics for Engineers*, by Richard Johnson; reviewed for Prentice Hall Publishing (2003).
- Review of *Statistics in Action*, by A.E. Watkins, R.L. Scheaffer, and G.W. Cobb; reviewed for Key Curriculum Press (2003).
- Review of *Applied Adaptive Statistical Methods*, by Thomas O’Gorman; reviewed for Society for Industrial and Applied Mathematics Publishing (2003).
- Review of *Understanding Statistical Concepts Using S-PLUS*, by R.E. Schumacker and A. Akers; appears in *The American Statistician*, 56, 3 (2002).
- Refereed grant proposals for the National Institute of Occupational Safety and Health, Centers for Disease Control.

- Journal articles refereed for the following publications:
 - *Accident Analysis and Prevention*
 - *The American Statistician*
 - *Biometrics*
 - *Communications in Statistics - Simulation and Computation*
 - *Computational Statistics and Data Analysis.*
 - *Computers, Environment, and Urban Systems*
 - *Geographical Analysis*
 - *Pediatrics*
 - *Journal of Science and Engineering*
 - *South African Statistical Journal*
 - *Journal of Statistics Education*

PRESENTATIONS

- (October 2011) “This is how we do it: teaching SAS® in the Cal Poly Statistics Department”
Western Users of SAS Software, 2011 Conference, San Francisco, CA.
With presenter Rebecca Ottesen, and co-authors Drs. Jimmy Doi and Karen McGaughey, all Department of Statistics, Cal Poly.
- (July 2010) “Effects of seasonal variation in milk composition on textural properties of low-moisture part-skim Mozzarella cheese”
2010 ADSA-PSA-AMPA-CSAS-WSASAS-ASAS Joint Annual Meeting, Denver, CO.
With poster presenter V. Jai, Master’s student at the Dairy Products Technology Center, Cal Poly, and N. Farkye, her advisor.
- (November 2008) “Statistical tools for analysis of periodicity in predator behavior”
Entomological Society of America, Annual Meeting and Exhibition, Reno, NV.
University of California Integrated Hardwood Range Management Program
Presented by Dr. Don Weber, USDA, Agricultural Research Service.
- (October 2006) “Identifying and Addressing Contemporary Issues in Central Coast Oak Woodlands”
6th California Oak Symposium, Rohnert Park, CA.
University of California Integrated Hardwood Range Management Program
With presenter E. Rice, and co-authors D. Piirto, R. Larsen, B. Tietje, and R. Cooper
- (July 2005) “Using logistic regression to assess the effect of seating location on the injury of child passengers in automobiles”
Invited speaker: Research Experiences in Mathematics for Undergraduates and Teachers; CSU Chico, CA.
- (August 2003) Session Chairman: Activities and Projects for Statistics Classes.
Joint Statistical Meetings, San Francisco, CA.
- (June 2002) “A two-part econometric regression model applied in litigation statistics”
Workshop for statistics teachers, Statistics Dept., Cal Poly State University, San Luis Obispo.
- (August 2001) “Tree-based regression for a circular response”
Joint Statistical Meetings, Atlanta GA.
- (October 1998) “Regression models for a circular response”
Departmental Colloquium, Dept. of Mathematics, Western Washington University
- (October 1998) “Regression models for directional data”
Conference of the International Indian Statistical Association, McMaster University, Canada

HONORS

- Ruth and Joe Gani Award
(1998) Best Ph.D. Dissertation, Department of Statistics, UCSB

SERVICE

University

- (Fall 2009 - Present) Academic Senate Faculty Affairs Committee
- (May 2008 - July 2008) Hiring Committee for COSAM Librarian
- (Fall 2007 - March 2008) Academic Senate Library Committee
- (Fall 2003 - June 2005) Academic Senate Library Committee

Department of Statistics

- (Fall 2010 – Present) Curriculum Committee
- (Fall 2006 - Present) College Based Fee Committee
- (Fall 2003-Present) Budget Committee
- (Fall 2010 – Winter 2011) Tenure-Track Recruiting Committee
- (Fall 2006 - Winter 2007) Tenure-Track Recruiting Committee, Chair
- (Fall 2005 - Winter 2006) Tenure-Track Recruiting Committee
- (Spring 2009) Full-Time Lecturer Recruiting Committee
- (Fall 2007 - Present) Colloquium/Speaker Coordinator
- (Fall 2002-Present) Employment Opportunities Coordinator