

ERIC A. SUESS

CONTACT INFORMATION

Eric A. Suess, Chair
Associate Professor
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EDUCATION

Ph.D., Statistics, University of California, Davis, December 1998.

Coursework: Advanced Mathematical Statistics, Advanced Linear Models, Advanced Time Series Analysis, Advanced Probability Theory, Advanced Survival Analysis, Advanced Data Analysis (Bootstrap and Bayesian Methods), Linear Regression Data Analysis, Multivariate Data Analysis, Applied Time Series Analysis, Categorical Data Analysis, Reliability, Statistical Computing, and Statistical Consulting.

M.S., Statistics, California State University, Hayward, June 1993.

Coursework: Mathematical Statistics, Probability Theory, Linear Regression Analysis, Analysis of Variance, Statistical Inference, Survival Analysis, and Real Analysis with Measure Theory.

B.A., Statistics and Economics, minor in Demography, University of California, Berkeley, May 1991.

Coursework: Mathematical Statistics, Probability Theory, Stochastic Processes, Time Series Analysis, Sampling Theory, Econometrics, and Statistical Demography.

RESEARCH EXPERIENCE

Director of the Biostatistics Professional Science Masters (PSM), (9/06-present). Developing the application for the PSM designation from the Council of Graduate School (CGS). Directing faculty to research comparable MS programs nationwide. Preparing progress reports.

Assessment Consultant, Alameda County Collaborative for Learning and Instruction in Mathematics (ACCLAIM), CSU East Bay and ACOE, (6/08 - present). Coordinating the data entry of assessment tests and the analysis for the ACCLAIM institutes with the Co-Directors of the program. Directing student assistants. Preparation of reports.

Assessment Consultant, Bay Area Environmental Science and Teaching Institute, CSU Hayward, (6/03-8/04). Coordinated the data collection and analysis for the BEST Institute with the Director and Associate Director of the program. Preparation of summary reports.

Post Doctoral Researcher, UC Davis, (6/99-9/01). Development of a FORTRAN computer program to implement the Gibbs sampler for a Bayesian hierarchical model to monitor country-wide disease freedom. Also, developed output presentation programs in Splus and R. Currently testing and preparing a paper for publication.

Doctoral Research, UC Davis, (9/96-9/98). Dissertation Title: Bayesian Deconvolution of Seismic Array Data. Developing a method to distinguish ripple-fired mining explosions from small scale nuclear explosions which will be useful for monitoring the Comprehensive Nuclear Test Ban Treaty. Constructed a convolution model, in the time domain, for ripple-fired explosions. Using the Monte Carlo method of Gibbs Sampling to estimate the parameters in the deconvolution problem. Currently preparing a research paper for submission to a nationally recognized Statistics journal. Advisor: Professor Robert Shumway.

Research Assistant, Department of Epidemiology, UC Davis, (7/98-9/98). Development of a Bayesian analysis using Gibbs Sampling to monitor country-wide disease freedom which will be useful for monitoring importation of beef under the North American Free Trade Agreement. Constructing a hierarchical model for country wide infection using herd level data. Using Gibbs Sampling to estimate the model parameters. Collaborating with Professors Ian Gardner and Wes Johnson.

Research Assistant, Center for Statistics in Science and Technology, UC Davis, (9/96-3/97). Collected and analyzed Hysteresis measurements on geologic samples to determine component magnetic properties. Consulted with Professors Kenneth Verosub and Robert Shumway.

TEACHING EXPERIENCE

Associate Professor, Statistics, CSU, Hayward (Fall 04-present)

Taught *Graduate Mathematical Statistics*, Stat. 6501 and Stat. 6502, *Graduate Probability*, Stat. 6401 and 6402, *Graduate Time Series*, Stat. 6871, *Graduate Bayesian Statistics*, Stat. 6870, *Graduate Statistical Modeling for Management and Economics*, Stat. 6011, *Introductory Probability and Statistics*, Stat. 1000, *From Data to Decisions*, Stat. 3050, *Introduction to Statistical Computer Packages*, Stat. 3900, *Advanced Introduction to Statistical Computer Packages*, Stat. 4950, *Statistical Programming*, Stat. 6250, *Graduate Seminar in Econometrics*, Econ. 6400, *Graduate Business and Economic Forecasting*, Mgmt. 6110.

Institute Leader, ACCLAIM Program CSU East Bay (Summer 2007).

Co-taught a 1 week institute in Statistics for Bay Area high school teachers of AP and non-AP Statistics. Presented lectures, conducted activities, engaged the teachers in open discussion, taught the use of the Statistics Functions in the TI-83 Plus, worked with the Co-leader who helped with the setup and delivery of each days activities.

Assistant Professor, Statistics, CSU, Hayward (Fall 98-Spring 04).

Taught *Graduate Mathematical Statistics*, Stat. 6501 and Stat. 6502, *Graduate Time Series*, Stat. 6871, *Introductory Probability and Statistics*, Stat. 1000, *Statistical Inference I*, Stat. 3401, *Introduction to Probability I*, Stat. 3502, *Introductory Statistics for Scientists and Engineers*, Stat. 3601, *Introduction to Statistical Computer Packages*, Stat. 3900, *Advanced Introduction to Statistical Computer Packages*, Stat. 4950, *Statistical Software Design*, Stat. 3910, *Advanced Statistical Software Design*, Stat. 4910, *Advanced Statistical Computing*, Stat. 6601.

Institute Leader, ACCLAIM Program CSU Hayward (Summer 2002).

Taught a 2 week institute in Statistics for Bay Area high school teachers. Presented lectures, conducted activities, engaged the teachers in open discussion, taught the use of the Statistics Functions in the TI-83 Plus, directed a Teacher Leader who helped with the setup and delivery of each days activities.

Visiting Professor, Statistics, Stanford University (Summer 2001).

Taught *Introductory to Time Series Analysis* course, Stat. 207 (an upper level undergraduate/first year graduate course), to 9 graduate students from various majors with extensive use of computer examples in Splus and R.

Lecturer, Statistics, CSU, Hayward (Summer 1993, Summer 1996).

Taught *Introductory Statistics* course, Stat. 1000 (a service course), to ethnically diverse and age diverse classes with the use of computer lab for examples.

Associate-Instructor, Statistics, UC Davis (Summer 95, Fall 95, Winter 96, Spring 96, Summer 97).

Taught *Introductory Statistics* course, Stat. 13 (a service course with average enrollment of 220 students), conducted lectures, prepared exams, held office hours, and directed TAs.

Taught *Introductory Probability and Statistics Through Computers*, Stat. 32 (a course designed for Computer Science and Statistics majors), it requires Calculus and facility with a computer language, using pseudo-random numbers and simulation to teach probability and statistical concepts.

Taught *Statistical Thinking*, Stat. 10 (a general education course), stressing statistical reasoning over mathematical formulas and emphasizing written communication in homework assignments and exams.

Teaching Assistant, Statistics, UC Davis (various quarters 9/93-6/98).

Courses: Biostatistics, Probability, Advanced Linear Models, Introductory Statistics, Introductory Statistics Through Computers, and Statistics for Economists. Held office hours, conducted discussion, graded exams, and met with instructors on regular basis.

Graduate Assistant, Statistics, CSU, Hayward (12/92-6/93). Assisted with various undergraduate classes. Conducted tutoring sessions for students with needs beyond the regular office hours and graded exams. Participated in consulting projects related to Education, Psychology, and Park Management.

PUBLICATIONS

Eric Suess and Bruce Trumbo (2009 expected). Gibbs Sampling and Screening Tests: From Random Numbers to the Gibbs Sampler (Springer Tests in Statistics).

Bruce Trumbo and Eric A. Suess, book review #8041, "Models for Probability and Statistical Inference: Theory and Applications," by James H. Stapleton, Wiley, 2008, JASA (2008)

Eric Suess, Bruce Trumbo, David Ahlberg (2007). Classroom Simulation: Distributions of Sales and Queue Lengths at a Fast-Food Counter. *Proceedings of the American Statistical Association*.

Eric Suess, Daniel Sultana, Gary Gongwer (2006). How Much Confidence You Have in Binomial Confidence Intervals? *Stats Magazine*.

Daniel M. Sultana, Charlyn Suarez, Bruce E. Trumbo, Eric A. Suess (2006). Is it Normal? A Simulation Study of Properties of Some Normality Tests. *Proceedings of the American Statistical Association*.

Bruce E. Trumbo, Eric A. Suess, Jacob Colvin (2006). Classroom Simulation: Indicators of Outliers in Boxplots of Normal Data. *Proceedings of the American Statistical Association*.

Bruce E. Trumbo, Eric A. Suess, Clayton W. Schupp (2005). Simulation: Computing the Probabilities of Matching Birthdays. *Stats Magazine*.

Eric A. Suess, Bruce E. Trumbo, Yun Jiang (2005). Classroom Simulation: Understanding One-Way Random-Effects ANOVA. *Proceedings of the American Statistical Association*.

Bruce E. Trumbo, Eric A. Suess, Shuhei Okumura (2005). Classroom Simulation: The Margin of Error in a Public Opinion Poll. *Proceedings of the American Statistical Association*.

Bruce E. Trumbo, Eric A. Suess, Rebecca E. Brafman (2004). Classroom Simulation: Are Variance-stabilizing Transformations Really Useful? *Proceedings of the American Statistical Association*.

Clayton W. Schupp, Bruce E. Trumbo, Eric A. Suess (2004). An Introduction to R: Simulating Birthday Matches in the Nonuniform Case. *Proceedings of the American Statistical Association*.

Bruce E. Trumbo, Eric A. Suess (2003). Using Simulation Methods in Statistics Instruction: Evaluating Estimators of Variability. *Proceedings of the American Statistical Association*.

Eric A. Suess, Ian Gardner, and Wesley O. Johnson (2002). Hierarchical Bayesian Model for Certification of a Country as "Free" from an Animal Disease. *Preventive Veterinary Medicine*.

Donald T. Sawyer, John Z. Osterello, Eric A. Suess, and Mary Dempsey (2002). Relationship Between Football Playing Ability and Selected Performance Measures. *Journal of Strength and Conditioning Research*.

Bruce Trumbo, Eric Suess, Chris Frasher (2001). Using Computer Simulation to Investigate Relationships between the Sample Mean and Standard Deviation. *Stats Magazine*.

Eric A. Suess, Ian Gardner, and Wesley O. Johnson (2000). Hierarchical Bayesian Model for Certification of a Country as "Free" from an Animal Disease. *Proceedings of the American Statistical Association*.

Bruce Trumbo, Eric Suess, Chris Frasher (2000). Contemporary Statistical Simulation Methodology for Undergraduates. *Proceedings of the American Statistical Association*.

Suess, E.A., Fraser, C., and Trumbo, B.E. (2000). Elementary Uses of the Gibbs Sampler: Applications to Medical Screening Tests. *Stats Magazine*.

Suess, E.A., Shumway, R., and Rong, C. (1999). Bayesian Deconvolution of Seismic Array Data Using the Gibbs Sampler. *Proceedings of the American Statistical Association*.

Journal of the American Statistical Association, Author and Subject Index to Volumes 50-86 (1955-1991).
Editors: Bruce E. Trumbo, Edward E. Gbur, Jr., and Eric A. Suess, 1993.

ACADEMIC SERVICE

- *Department Chair*, Department of Statistics and Biostatistics, CSU East Bay, (2006-present). Currently mentoring 6 untenured faculty members. Yearly writing of Chair retention letters. Wrote job description and guided Prof. Mitch Watnik as Hiring Committee Chair 2005-2006. Hired YanYan Zhou. Implemented the change from the Department of Statistics to the Department of Statistics and Biostatistics Fall 2007. Implemented the beginning of the new MS program in Biostatistics. Lead the curriculum revision of the Biostatistics MS program Spring 2006. Lead the curriculum revision of the Statistics MS program Spring 2007. To Lead the curriculum revision of the undergraduate Statistics BS program Spring 2008.
- *Graduate Advisor, Biostatistics*, Department of Statistics and Biostatistics, CSU East Bay, (2007-present). Recruiting students. Directing Co-graduate Advisors Prof. Lynn Eudey and Prof. Mitch Watnik on graduation paperwork.
- *Undergraduate Advisor*, Department of Statistics, CSU East Bay, (1998-present). Advised many Statistics BS students and filed many graduation checks. Advised many Economics students with the Statistical Economics Option.
- *Summer Acting Chair*, Department of Statistics, CSU East Bay, (2000, 2001, 2002, 2003, 2003, 2005, 2006, 2007, 2008). Summer 2002 participated in the hiring of staff member. Summer 2006 participated in the hiring of replacement staff member Peggy Towers.
- *Committee on Budget (COBRA)*, CSU East Bay, (2006-present).
- *Executive Committee of Senate (EXCOM)*, CSU East Bay, (2006-2007).
Hiring Committee member for the AVP for Planning and Enrollment Services, Linda Dalton hired.
- *Department of Statistics Research Day Coordinator*, CSU Hayward, (2007). Guest speakers from Kaiser Permanente.
- *Department of Statistics Research Day Coordinator*, CSU Hayward, (2006). Guest speakers from Exponent.
- *Department of Statistics Research Day Coordinator*, CSU Hayward, (2005). Guest speakers from Genentech.
- *Department of Statistics Research Day Coordinator*, CSU Hayward, (2004). Guest speakers from UCSF, Genentech, Sun Microsystems.
- *Academic Senator*, CSU Hayward, (2003-2007).
- *Hiring Committee Chair*, Department of Statistics, CSU Hayward, (2004-2005). Hired Prof. Lynn Eudey and Prof. Josh Kerr.
- *Hiring Committee Chair*, Department of Statistics, CSU Hayward, (2003-2004). Hired Prof. Kelly Fan and Prof. Mitch Watnik.
- *Acting Chair*, Department of Statistics, CSU Hayward, (2003-2004). Worked with staff member to prepare visa application for Prof. Jaimie Kwon, Fall 2003. Also, worked with staff member to write visa application for Prof. Kelly Fan, Fall 2004.

- *Joint appointment with the Department of Engineering*, (2003-2004).
- *Hiring Committee Chair*, Department of Statistics, CSU Hayward, (2002-2003). Hired Prof. Jaimie Kwon.
- *Faculty in Residence for Technology*, Office of Faculty Development, (2001-2003).
- *Curriculum Development Committee Member*, Department of Statistics, CSU Hayward, (1999-2002, 2006-present).
- *Committee on Academic Planning and Resources (CAPR)*, CSU Hayward, (2000-2002).
- *Website Development Committee Member*, School of Science, CSU Hayward (1999-2000).
- *Undergraduate Assessment Committee Member*, Department of Statistics, CSU Hayward (9/98-present).
- *Statistical Consulting* for the Department of Statistics, CSU Hayward (9/98-present).
- *Peer Advisor and Student/Faculty Liaison* for the Division of Statistics, UC Davis (9/96-6/98).
- *Graduate Student Association Representative*, UC Davis (9/96-6/98).
- *Committee Chair, Graduate Student Seminar Series*, UC Davis (Spring 1997).
- *The Teaching Assistant Position in the Division of Statistics: A Handbook for New TA's*, Revision Editor (Summer 1994).
- *Teaching Assistant Retreat Coordinator*, UC Davis (Fall 1994).
- Have written several recommendations. Over 20 student admitted to PhD or MS programs. Two are now tenure track faculty members at universities.

PROFESSIONAL AFFILIATIONS AND PARTICIPATION

- Presidential appointee to the Current Index to Statistics Management Committee, ASA. Three year term 2007 to present.
- Member of the American statistical Association (ASA).
- Member of the San Francisco Chapter of ASA.
- Member of the Institute of Mathematical Statistics (IMS).
- Attended annual meetings of ASA Denver 2008 (Salt Lake City 2007, Seattle 2006, Minnesota 2005, Toronto 2004, San Francisco 2003, New York 2002, Indianapolis 2000, Baltimore 1999, Dallas 1998, Anaheim 1997, Chicago 1996, Toronto 1995, and San Francisco 1993).
- Attended 33rd Symposium on the Interface: Computing Science and Statistics, Frontiers of Data Mining and Bioinformatics, June 13-16, 2001.
- Attended 9th Symposium of the International Society for Veterinary Epidemiology and Economics, August 6-11, 2000. Oral presentation on Hierarchical Bayesian model for certification of a country as "free" from an animal disease.
- Attended the New Researchers Conference, John Hopkins University, August 1999, sponsored by the Institute of Mathematical Statistics. Presented Bayesian Deconvolution of Seismic Array Data.

GRANTS

- SLOAN Foundation Grant, subcontract from San Diego State University Systemwide grant for the development of Professional Science Masters Programs (2007-present).
- Alameda County Collaborative for Learning and Instruction in Mathematics (ACCLAIM), CSU East Bay and ACOE, (2007-present).

COMPUTER SKILLS

Working knowledge of and experience with statistical software R/S-Plus, Matlab, SAS, SPSS, Minitab; programming languages FORTRAN and Pascal; word processing and spreadsheets, LaTeX, MS Word, and Excel. Experience with PCs, Macs, and mainframe computing on UNIX and VMS systems.