

ERIC A. SUESS

CONTACT INFORMATION

Eric A. Suess, Professor
Department of Statistics and Biostatistics
Joint appointment with the Department of Engineering
California State University, East Bay
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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 Analysis, Multivariate Data Analysis, Applied Time Series Analysis, Categorical Data Analysis, Reliability, Statistical Computing, and Statistical Consulting.

M.S., Statistics, California State University, East Bay (formally Hayward), June 1993.

Coursework: Mathematical Statistics, Probability Theory, Linear Regression Analysis, Analysis of Variance, Statistical Inference, Survival Analysis, Advanced Calculus, 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, Statistical Demography, Calculus, Linear Algebra, Abstract Algebra, and Real Analysis.

RESEARCH EXPERIENCE

Chief Statistician, machineVantage, Berkeley, CA & Chennai, India (2018-2022). Machine Learning and AI product development team member for IRr Worldwide, a Big Data/Analytics company and primary investor in machineVantage. Developed digital products for the IRi Liquid Data platform for analyzing Consumer Packaged Goods (CPG) data, *Category Busting Metric*, *Claim Dynamics*, and *Distance to Natural*. The products were built with a wide variety of ML algorithms using the text of product claims, and products sales data from the Luquid Data platform. Other projects for clients included dialog improvements in scripts, music production, health care App development, consumer sentiment of products survey analysis, and development of metaphors using Twitter data.

Statistical Consultant, Office of Research and Sponsored Programs (ORSP) (9/2013 - 3/2014). Consulting with Students, Faculty, and Administrators. Discussing Statistics related questions. Review of study design. Review of selected models. Software discussion: Minitab, SPSS, MS Excel, R programming.

Assessment Consultant, Alameda County Collaborative for Learning and Instruction in Mathematics (AC-CLAIM), CSU East Bay and Alameda County Office of Education (ACOE) (6/2008 - 7/2011). Coordinating the data entry of assessment tests and the analysis for the ACCLAIM institutes with the Co-Directors of the program. Directing student assistants. Preparing of reports.

Director of the Biostatistics Professional Science Master's (PSM) Program, Department of Statistics, CSU East Bay (9/2006-10/2010). Developing the application for the PSM designation from the Council of Graduate Schools (CGS). Directing faculty in researching comparable MS programs nationwide. Preparing progress reports.

Assessment Consultant, Bay Area Environmental Science and Teaching Institute, CSU East Bay (formally Hayward) (6/2003-8/2004). Coordinating the data collection and analysis for the BEST Institute with the Director and Associate Director of the program. Preparing summary reports.

Post Doctoral Researcher, UC Davis (6/1999-9/2001). Developing a FORTRAN computer program to implement the Gibbs sampler for a Bayesian hierarchical model to monitor country-wide disease freedom. Also, developing output presentation programs in Splus and R. Currently testing and preparing a paper for publication.

Doctoral Research, UC Davis (9/1996-9/1998). 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. Constructing 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 (7/1998-9/1998). Developing 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 (9/1996-3/1997). Collecting and analyzing hysteresis measurements on geologic samples to determine component magnetic properties. Consulted with Professors Kenneth Verosub and Robert Shumway.

TEACHING EXPERIENCE

Professor, Statistics and Biostatistics, CSU East Bay (Fall 2009-present).

Taught after semester conversion: *Statistics for Probability for Science and Engineering*, Stat. 316; *Introduction to Probability Theory*, Stat. 320; *Introduction to R for Data Science*, Stat. 450; *Introduction to Statistical Learning*, Stat. 452; *Introduction to Time Series*, Stat. 474; *Bayesian Statistics*, Stat. 481; *Advanced Statistical Theory*, Stat. 640; *Advanced R for Data Science*, Stat. 650; *Data Visualization*, Stat. 651; *Statistical Learning*, Stat. 652; *Statistical Natural Language Processing*, Stat. 653; *Deep Learning*, Stat. 654; *Time Series*, Stat. 674; *Applied Research in Statistics and Biostatistics*, Stat. 694.

Taught prior to semester conversion: *Graduate Mathematical Statistics I and II*, Stat. 6501, Stat. 6502; *SAS Programming*, Stat. 6250; *Data Visualization*, Stat. 4868/6610; *Statistical Learning with R*, Stat. 4869/6620; *Advanced Probability*, Stat. 6401; *Survey Sampling*, Stat. 3510; *Introduction to R for Data Science*, Stat. 450; *Introduction to Statistical Learning*, Stat. 452; *Advanced R for Data Science*, Stat. 650; *Data Visualization*, Stat. 651; *Statistical Learning*, Stat 652; *Statistical Natural Language Processing*, Stat. 653; *Applied Deep Learning*, Stat. 654; *Research in Statistics and Biostatistics*, Stat. 694.

Associate Professor, Statistics, CSU East Bay (formally Hayward) (Fall 2004-Spring 2009).

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 one-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 Statistics Functions in TI-83 Plus, worked with the Co-leader who helped with setup and delivery of each day's activities.

Assistant Professor, Statistics, CSU East Bay (formally Hayward) (Fall 1998-Spring 2004).

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 East Bay (formally Hayward) (Summer 2002).

Taught a two-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 TI-83 Plus, directed a Teacher Leader who helped with setup and delivery of each day's activities.

Visiting Professor, Department of 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 East Bay (formally 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 a computer lab for demonstrating examples.

Associate Instructor, Department of Statistics, UC Davis (Summer 1995, Fall 1995, Winter 1996, Spring 1996, Summer 1997).

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); this course requires Calculus and ability to program in 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.

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.

Teaching Assistant, Department of Statistics, UC Davis (various quarters 9/1993-6/1998).

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

Graduate Assistant, Statistics, CSU East Bay (formally Hayward) (12/1992-6/1993). Assisted with various undergraduate classes. Conducted tutoring sessions for students with needs beyond regular office hours and graded exams. Participated in consulting projects related to Education, Psychology, and Park Management.

PUBLICATIONS

Darren Keeley, Eric A. Suess (2023, submitted 2019). "Accuracy of Precipitation Forecasts: Finding the Right Threshold for what is Considered Rain." *Journal of Computational Statistics and Graphics*. Vol. 38: pp 1123–1134. <https://doi.org/10.1007/s00180-023-01337-5>

Jedidiah Harwood, Eric A. Suess (2021). "The Rose Garden Event: A Hierarchical Bayesian Approach to Modeling Positive Coronavirus Tests." *Proceedings of the American Statistical Association*.

- Sheth M., Gundreddy M., Shah V., Suess E.A. (2018). "Spatial and Temporal Trends in Weather Forecasting and Improving Predictions with ARIMA Modeling." *Proceedings of the American Statistical Association*.
- Bruce E. Trumbo and Eric A. Suess (2017). "Simulations." Editors: Alhajj Reda, Rokne John. *Encyclopedia of Social Network Analysis and Mining*. Springer, New York, NY, pp 1-22.
- Ming Lin, Eric A. Suess, Robert H. Shumway, and Rong Chen (2016). "Bayesian Deconvolution of Signals Observed on Arrays." *Journal of Time Series Analysis*.
- Eric A. Suess (2014). "Classroom Demonstrations of Big Data." *Proceedings of the American Statistical Association*.
- Bruce E. Trumbo and Eric A. Suess (2014). "Gibbs Sampling." *Encyclopedia of Social Network Analysis and Mining*. Springer Science, Business Media New York, pp. 625-640.
- Tony Tran, Aida Yazdanparast, Eric A. Suess (2014). "Effect of oil spill on birds: a graphical assay of the deepward horizon oil spill's impact on birds." *Computational Statistics*. Volume 29, Issue 1-2, pp 133-140.
- Aida Yazdanparast, Tony Tran, Eric A. Suess (2011). "Effect of Oil Spill on Birds: A Graphical Assay of the Deepwater Horizon Oil Spill's Impact on Birds." *Proceedings of the American Statistical Association, Statistical Graphics Section*.
- Vadim Y. Bichutskiy, Joshua D. Kerr, Eric A. Suess, and Bruce E. Trumbo (2010). "Classroom Derivation and Simulation: An Asymptotic Two-Sample Test for Comparing Population Medians." *Proceedings of the American Statistical Association*.
- Eric A. Suess and Bruce E. Trumbo (2010). *Introduction to Probability Simulation and Gibbs Sampling with R (Use R)*. Springer-Verlag.
- Vadim Y. Bichutskiy, Joshua D. Kerr, Eric A. Suess, and Bruce E. Trumbo (2010). "Classroom Derivation and Simulation: An Asymptotic Two-Sample Test for Comparing Population Medians." *Proceedings of the American Statistical Association*.
- Jessica Utts, Michelle Norris, Eric Suess, and Wesley Johnson (2010). "The Strength of Evidence versus the Power of Belief: Are we all Bayesians?" *International Conference on Teaching Statistics (ICOTS8) Plenary Paper*.
- David A. Sandberg, Eric A. Suess, and Jessica L. Heaton (2010). "Attachment Anxiety as a Mediator of the Relationship Between Interpersonal Trauma and Posttraumatic Symptomatology Among College Women." *Journal of Interpersonal Violence*.
- David T. Suess, Eric A. Suess, and Sean R. Gregory (2009). "Development of Startup and Shutdown Permit Limits Based Upon Historical Data from Combustion Sources Monitored by Continuous Emission Monitoring Systems." *2009 Annual Air & Waste Management Association (AWMA) Conference, Manuscript 2009-A-597-AWMA*.
- 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).
- Lioudmila Belan, Eric Suess, and Bruce Trumbo (2008). "Classroom Use of R: Coverage Probabilities of Poisson Interval Estimates." *Proceedings of the American Statistical Association*.
- Eric Suess, Bruce Trumbo, and 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, and Gary Gongwer (2006). "How Much Confidence You Have in Binomial Confidence Intervals?" *Stats Magazine*.

- Daniel M. Sultana, Charlyn Suarez, Bruce E. Trumbo, and 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, and 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, and Clayton W. Schupp (2005). "Simulation: Computing the Probabilities of Matching Birthdays." *Stats Magazine*.
- Eric A. Suess, Bruce E. Trumbo, and Yun Jiang (2005). "Classroom Simulation: Understanding One-Way Random-Effects ANOVA." *Proceedings of the American Statistical Association*.
- Bruce E. Trumbo, Eric A. Suess, and 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, and Rebecca E. Brafman (2004). "Classroom Simulation: Are Variance-stabilizing Transformations Really Useful?" *Proceedings of the American Statistical Association*.
- Clayton W. Schupp, Bruce E. Trumbo, and Eric A. Suess (2004). "An Introduction to R: Simulating Birthday Matches in the Nonuniform Case." *Proceedings of the American Statistical Association*.
- Bruce E. Trumbo and 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."
- 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, and Chris Fraser (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, and Chris Fraser (2000). "Contemporary Statistical Simulation Methodology for Undergraduates." *Proceedings of the American Statistical Association*.
- Eric A. Suess, Chris Fraser, and Bruce E. Trumbo (2000). "Elementary Uses of the Gibbs Sampler: Applications to Medical Screening Tests." *Stats Magazine*.
- Eric A. Suess, Robert H. Shumway, and Rong Chen (1998). "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.

Acknowledgments

Jessica Canning, Maryam Haque, and Yimeng Wang, (2012). Guidance given by Prof. Eric A. Suess. "Women at the Wheel, Do Female Executives Drive Start-Up Success?" *DowJones*.

M.S. ENGINEERING CAPSTONE PROJECTS

- Data Science for Industrial Engineering, Sajith Gowthaman, 2020
- Time Series Analysis and Forecasting of Gross Domestic Product (GDP) for the United States of America Using Time Series Methods, Sanket Kiran Annigeri, Harsh Parel, 2019
- Impact of the 2007-2009 recession on the United States Economy, Aditya Pareek 2018
- Forecasting with Machine Learning, Jason Lash 2018
- Forecasting and Inventory Analysis on Retail Companies by Using Tableau, Richa Agrawal and Krishnasree Devarapalli 2018
- Correlation Analysis on U.S. Unemployment Using Minitab, Srividya Rangarajan and Surya Venkatesh Peri 2018
- Comparison of the Socio-Economic Status of California to the Other States of the United States of America, Shrivasa Ramakrishna 2017
- Electric Forecasting of Pacific Gas and Electric Company, Abhinay Kakumani 2017
- Forecasting and Inventory Analysis on General Motors Company using SAS vs QM Softwares, Bharath Kumara Adapala and Raja Satakopan Ramdass 2017
- Computation of Facebook Metrics of a Cosmetic Brand Using SAS, Veerendra Bhargav Ganti and Abhyuday Thunga 2017
- Process Improvement in a Call Center using Six Sigma Techniques, Mohommed Saifullah Khan 2017
- Analysis of NBA Players' Tweets Sentiment, Twitter use Habits and Popularity, Pei Ching Chen 2017
- ANOVA for Compost Reactor in Python, Zainab Sayyed Mohammed Iqbal 2017
- Seasonal Analysis of Electric Vehicles Sales, Gurumanoj and Jude Satish Simonraj 2017
- A Holistic View Into the Future of Teleworking, Anu Prakash 2016
- Sentiment Analysis of Tweets Using Hash Tags, Pashanth Chandrappa 2016

ACADEMIC SERVICE

- *Data Science Workgroup* Faculty lead for student organized data science presentations, demonstrations, seminars, data competitions, and research projects. Attended weekly leadership meetings and presentations by students and invited speakers. Worked with students to learn software used in industry for data science, h2O, R, python, julia, github, hadoop, etc. (2014 - 2024).
- *Member of the Department of Statistics and Biostatistics RT&P Committee*, CSU East Bay (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2022-2023, 2023-2024).
- *Member of the Department of Physics RT&P Committee*, CSU East Bay (2018-2019).
- *Member of the Department of Earth and Environmental Sciences RT&P Committee*, CSU East Bay (2017-2018).
- *Member of the College of Science RT&P Committee*, CSU East Bay (2015-2016, 2016-2017).
- *Member of the College of Science Curriculum Committee*, CSU East Bay, Semester Conversions (2015-2016).
- *Member of Department Hiring Committee*, Department of Statistics, CSU East Bay (2022-2023). Hired Prof. Taejoon Kim.
- *Member of Department Hiring Committee*, Department of Statistics, CSU East Bay (2019-2020). Hired Prof. Wendy Rummerfield.
- *Member of Department Hiring Committee*, Department of Statistics, CSU East Bay (2018-2019). Hired Prof. Jiyoun Myung.
- *Member of Department Hiring Committee*, Department of Statistics, CSU East Bay (2017-2018). Two tenure track faculty members hired, Dr. Eric Fox and Dr. Li Zou.

- *Member of Department Hiring Committee*, Department of Statistics, CSU East Bay (2016-2017). Failed search.
- *Member of Department Hiring Committee*, Department of Statistics, CSU East Bay (2015-2016). Failed search.
- *Department Chair*, Department of Statistics and Biostatistics, CSU East Bay (2006-2015). Mentored five Associate Professors. Yearly writing of Chair retention and promotion letters. Participated in writing the job description and guided Prof. Lynn Eudey as Hiring Committee Chair 2013-2014. Hired Prof. Ayona Chatterjee. Wrote job description and guided Prof. Mitch Watnik as Hiring Committee Chair 2005-2006. Hired Prof. 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 Statistics MS program (Spring 2007). Lead the curriculum revision of the Biostatistics MS program (Spring 2006). Recruited and interviewed potential lecturers. Hired, mentored, and reviewed lecturers. Recruiting and mentoring lecturers participating in the PHAP program. Worked with staff member(s) on daily departmental activities, scheduling, payroll, hiring graders, faculty issues, student issues, and computer resource usage.
- *Graduate Advisor, Biostatistics*, Department of Statistics and Biostatistics, CSU East Bay, (2007-2015). Recruiting students. Directing Co-graduate Advisors Prof. Lynn Eudey and Prof. Mitch Watnik on graduation paperwork.
- *Undergraduate Advisor*, Department of Statistics and Biostatistics, CSU East Bay (1998-present). Advised numerous Statistics BS students and filed their graduation checks. Advised many Economics students taking the Statistical Economics Option.
- *Chair of Committee on Budget and Resource Allocation (COBRA)*, CSU East Bay (2009-2011).
- *Academic Senator*, CSU East Bay (2009-2011).
- *Member of the Committee on Budget and Resource Allocation (COBRA)* (2007-2011).
- *Summer Acting Chair*, Department of Statistics, CSU East Bay (2000-2013). Summer 2010 participated in the recruiting and hiring a student assistant to replace former staff member. Summer 2006 participated in hiring replacement staff member. Summer 2002 participated in hiring a staff member.
- *Committee on Budget (COBRA)*, CSU East Bay (2006-2011).
- *Executive Committee of Senate (EXCOM)*, CSU East Bay (2006-2007). Hiring Committee member for AVP for Planning and Enrollment Services.
- *Department of Statistics Research Day Coordinator*, CSU East Bay (2007). Guest speakers from Kaiser Permanente.
- *Department of Statistics Research Day Coordinator*, CSU East Bay (2006). Guest speakers from Exponent.
- *Department of Statistics Research Day Coordinator*, CSU East Bay (2005). Guest speakers from Genentech.
- *Department of Statistics Research Day Coordinator*, CSU East Bay (2004). Guest speakers from UCSF, Genentech, Sun Microsystems.
- *Academic Senator*, CSU Hayward (2003-2007).
- *Hiring Committee Chair*, Department of Statistics, CSU East Bay (2004-2005). Hired Prof. Lynn Eudey and Prof. Josh Kerr.
- *Hiring Committee Chair*, Department of Statistics, CSU East Bay (2003-2004). Hired Prof. Kelly Fan and Prof. Mitch Watnik.
- *Acting Chair*, Department of Statistics, CSU East Bay (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*, CSU East Bay (2004).

- *Hiring Committee Chair*, Department of Statistics, CSU East Bay (2002-2003). Hired Prof. Jaimie Kwon.
- *Faculty in Residence for Technology*, Office of Faculty Development, CSU East Bay (2001-2003).
- *Curriculum Development Committee Member*, Department of Statistics, CSU East Bay (1999-2002, 2006-present).
- *Committee on Academic Planning and Resources (CAPR)*, CSU East Bay (2000-2002).
- *Website Development Committee Member*, School of Science, CSU East Bay (1999-2000).
- *Undergraduate Assessment Committee Member*, Department of Statistics, CSU East Bay (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 multiple recommendations for over 40 student admitted to PhD or MS programs. Two are now tenure-track faculty members at universities.

PROFESSIONAL AFFILIATIONS AND PARTICIPATION

- Associate Editor, Current Index to Statistics Management Committee, IMS (2010-2015).
- Presidential appointee to the Current Index to Statistics Management Committee, ASA. Three-year term (2007-2010).
- Member of the American Statistical Association (ASA).
- Member of the San Francisco Chapter of ASA.
- Member of the Institute of Mathematical Statistics (IMS).
- Member of the Bay Area R User Group (BARUG).
- Member of the Bay Area SAS User Group (BASAS).
- Attended annual Joint Statistical Meetings (JMS) (on-line 2021, on-line 2020, Denver 2019, Vancouver 2018, Seattle 2015, Boston 2014, Montreal 2013, Miami 2011, Vancouver 2010, 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).
- Invited Speaker, Data Science undergraduate recruiting event for Foothill College. Presentation: "Palmer Penguins, visualization, ML Classification, kNN, Confusion Matrix, Accuracy Welcome prospective Data Science Students!"
- Invited Speaker BARUG, 2021. Presentation: " COVID19 Data Hub, A curated COVID19 R Package".
- Invited Speaker, East Bay R Language Beginners Group, 2018. Presentation: "Oakland Ford GoBikes. Lets see how they are used".
- Attended Hadoop World 2016.
- Invited Speaker, Kaiser Permanente, 2012. Presentation: "Statistics and Biostatistics Topics of Interest".
- Invited Speaker, De Anza College, 2012. Presentation: "De Anza College - CSUEB Interface".
- Invited Speaker, China American Business and Education Center, College of Business and Economics, CSU East Bay, for the Hubei, China Provincial Bureau of Statistics, 2011. Presentations: "U.S. Statistics", "U.S. Surveys".
- Invited Speaker, College of Science, CSU East Bay, for BD Biosciences CSU Meeting, 2011. Presentation: "PSM Biostatistics", Department of Statistics and Biostatistics, CSU East Bay.

- Attended the CSUPERB 22nd Annual CSU Biotechnology Symposium, Sunnyvale, CA. January, 2010. Poster presentation.
- Attended the Advances in Bioinformatics and Genomics Symposium, Palo Alto, CA. February, 2010. Oral presentation: R Tutorial.
- Attended the CSUPERB 20th Annual CSU Biotechnology Symposium, Oakland, CA. January, 2008.
- 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. Presentation: “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. Presentation: “Bayesian Deconvolution of Seismic Array Data.”

GRANTS

- NSF Grant, Science Master’s Program: Integrating Regulatory Affairs in Bioscience and Biomedical Physics: A Scalable, Replicable Model Addressing Current and Emerging Workforce Needs, subcontract from San Diego State University (2010-2013).
- Chevron Mathematics Achievement Academies, Summer 2010, Summer 2011, Summer 2012, Summer 2013, Summer 2014.
- SLOAN Foundation Grant, subcontract from San Diego State University: systemwide grant for the development of Professional Science Master’s Programs (2007-2010).
- Alameda County Collaborative for Learning and Instruction in Mathematics (ACCLAIM), CSU East Bay and ACOE (2007-2011).

COMPUTER SKILLS

Working knowledge of and experience with statistical software R, MRO, Python, Matlab, SAS, JMP, SPSS, Minitab, BlueSky, Tableau; programming languages FORTRAN and Pascal; word processing and spreadsheets, LaTeX, LibreOffice, MS Word, MS PowerPoint, and MS Excel; virtual computing Microsoft OneDrive, Google docs, Digital Ocean, and Amazon EC2. Experience with MS Windows, linux, BSD, PCs, linux, UNIX, and VMS systems. Databases Sqlite, Mysql, and MongoDB. Distributed data storage crate.io and hadoop.