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[https://en.wikipedia.org/wiki/Daniel\\_R.\\_Jeske](https://en.wikipedia.org/wiki/Daniel_R._Jeske)

## EDUCATION

- Ph.D. Statistics, 1985, Iowa State University, Ames IA  
Dissertation: "Prediction Intervals for the realization of a random variable under a general Mixed Linear Model"  
Major Professor: David A. Harville
- M.S. Statistics, 1982, Iowa State University, Ames, IA
- B.S. Mathematics and Computer Science, 1980, Austin Peay State University, Clarksville TN
- A.S. Mathematics, 1978, Volunteer State Community College, Gallatin, TN

## WORK EXPERIENCE – *Academia*

Sept 2003 – Present: University of California, Riverside, Department of Statistics

Vice Provost of Academic Personnel, 7/1/2020 - Present  
Vice Provost of Administrative Resolution, 7/1/2019 – 6/30/2020  
Department Chair, 7/1/08 – 6/30/15  
Professor of Statistics, 7/1/07 – Present  
Director of Statistical Consulting Collaboratory, 7/1/03 – 6/30/2017  
UCR Faculty Athletic Representative to the Big West Conference, 7/1/10 - 9/30/15  
Undergraduate Advisor, 7/1/03 – 6/30/08  
Associate Professor of Statistics 2003-2007

Responsibilities include teaching, consulting and research. My teaching responsibilities include 3 quarters of the Statistical Consulting Class that all of our graduate students are required to enroll in for three quarters. I have also taught our undergraduate course "Statistics for Engineers."

The Collaboratory was initiated with my appointment and during that time it has grown rapidly both in terms of student involvement and revenue generated from consulting projects. Over my term as Director, the Collaboratory has created over 30K hours of student (both undergraduate and graduate) employment opportunities and generated over \$1M in consulting project-related funding. The Collaboratory created 9 summer industry-internship positions for UCR students and has exposed students to additional companies through their involvement in statistical consulting projects.

My research makes contributions to both statistical methodology and real applications. The areas I have worked in, including work with my Ph.D. students, are network clock synchronization algorithms, classification methodologies, statistical process control algorithms, reliability

modeling, change-point detection, statistical methods for medical research, and sequential analysis.

2015-2017: Visiting Investigator, City of Hope National Medical Center, Duarte, California

2015-2016: Visiting Scholar, Kaiser-Permanente, Pasadena, California (while on sabbatical)

1990 – 2003: Rutgers University Statistics Department, Busch Campus, Piscataway NJ

Visiting Part-Time Lecturer. Graduate-Level Teaching Responsibilities:

2003: Life Data Analysis

2002: Nonparametric Methods, Experimental Design

2001: Probability Models, Nonparametric Methods

2000: Probability Models, Nonparametric Methods

1999: Time Series Analysis, Experimental Design

1998: Quality Control, Life Data Analysis

1997: Probability Models

1996: Regression Analysis, Quality Control, Probability Models

1994: Regression Analysis

1993: Experimental Design, Regression Analysis

1992: Experimental Design, Regression Analysis

1991: Advanced Regression Analysis, Experimental Design

1990: Special Topics in ANOVA, Advanced Regression Analysis

1980-1985: Iowa State University, Ames IA

Research Assistant for the Agricultural Experiment Station in the Statistics Laboratory. Provided statistical consulting for university faculty and graduate students. Strong emphasis on the design and analysis of experiments using analysis of variance techniques. Used SAS extensively.

#### **WORK EXPERIENCE – *Industry***

2007-Present: Mathematical Analysis Research Corporation, Claremont, CA

Part-time (average of 20 hours/month - more in the summer months) Statistical Consultant working on projects funded by U. S. Navy. Work has been in the following topic areas:

- Risk Assessment methodologies (e.g., fault trees, markov models)
- Probit Modeling
- Tolerance interval analyses
- Reconciliation of test and field failure data
- UC-Riverside department of statistics intern mentoring

1985 – 2003: Bell Laboratories, Holmdel NJ

Promoted to Technical Manager, 1999

Promoted to Distinguished Member of Technical Staff, 1992

Hired as Member of Technical Staff, 1985

I engaged in technical work in all of my positions at Bell Laboratories. Examples of consulting and research problems I worked on include:

- Developed reliability models for blocked calls, failure rates, downtime and availability to compare the reliability of telecommunication networks (and network elements) under alternative architectural designs.
- Developed and utilized software reliability growth models to track the improvement of system software reliability throughout its testing phase.
- Used Markov models to compare the reliability of alternative software architectures and identify influential aspects of failure recovery mechanisms.
- Applied queuing models to predict the performance (e.g., loss and delay) of various computer processing systems.
- Designed a real-time algorithm (using time series methods) to decide when new calls should be admitted into a voice-over-packet network without disrupting the quality of service for existing calls.
- Used Bayesian methods to develop a sequential prediction algorithm for the location of wireless users.
- Developed a class of estimators of signal-to-noise ratio estimators that have superior mean-squared-error properties.
- Used bootstrap method to estimate clock offset between two network elements.
- Designed a geographic information system to statistically quantify the risk of network locations to natural disasters.
- Created and led a Data Analysis Quality Team that helped engineers integrate the use fundamental statistical techniques, as well as the use of S/S-PLUS, into their research.

I carefully documented my technical work at Bell Laboratories in approximately 90 technical reports, partly because it is required but equally because I enjoy writing. Much of the documentation is proprietary, but many of my publications reflect the non-proprietary aspects of my work.

As a technical manager, I continued doing technical work but also accepted responsibility to lead a group that did internal performance and reliability consulting pertaining to the design of networks and network components. I acquired experience writing proposals (internal and external) for projects, setting schedules, negotiating with customers on funding levels, responding to crises, and balancing the needs of individuals in my group with the needs of the company.

## **PROFESSIONAL LEADERSHIP POSITIONS HELD**

Candidate for President of American Statistical Association, 2019

Participant and Graduate of the UC-CORO Systemwide Leadership Collaborative, 2019

President, International Society of Statistics for Business and Industry, 2021-2023

President-Elect, International Society of Statistics for Business and Industry, 2019-2020

Elected Vice-President, International Society of Statistics for Business and Industry, 2018-2019

Member, ASA Quality and Productivity Research Conference Steering Committee, 2008 – Present

NISS Program Affiliates Committee Member, 2017 – 2019

NISS Program Affiliates Committee Chair, 2020

Elected Member of NISS Board of Directors, 2020-2023

Elected Board Member, American Statistical Association, 2014-2016

ASA President Nominee 2020

Co-Chair of ISI Workgroup on Data Science, 2021

Founding Member of ISI Special Interest Group on Data Science, 2021-Present

Elected Vice Chair, Council of Chapters Governing Board, District 6, 2011- 2013

Conference Chair, 2012 ASA Quality and Productivity Research Conference

Conference Co-Chair, International Symposium on Business and Industrial Statistics, 2018

Conference Co-Chair, International Conference on Statistical Theory and Applications, 2019

Member, ASA In-Reach Committee, August 2011 - July 2012

Elected President, Southern California Chapter of the ASA, July 2007 – June 2009

Member, ASA Panels on: Syndromic Surveillance (2006), K-12 Education (2007) and Statistical Consulting (2006, 2008)

## **EDITORIAL BOARDS**

Editor-in-Chief, *The American Statistician*, January 2018 – 2020

Editor-in-Chief-Elect, *The American Statistician*, August 2017 – December 2017

Associate Editor, *The American Statistician*, July 2008 – July 2017

Associate Editor, *Applied Stochastic Models in Business and Industry*, July 2014 - Present

Associate Editor, *Technometrics*, August 2014 – July 2017

## **FUNDING ACTIVITY**

2000: \$573,000 (Bell Labs Internal Funding for Performance and Reliability Consulting and Research)

2001: \$990,000 (Bell Labs Internal Funding for Performance and Reliability Consulting and Research)

2002: \$505,000 (Bell Labs Internal Funding for Performance and Reliability Consulting and Research)

2003: \$196,000 (Bell Labs Internal Funding for Performance and Reliability Consulting and Research)

\$ 81,900 (External Funding for FAA Risk Analysis Research)

Grant Funding since joining UCR in Fall 2003:

2004: PI for \$1,000 UCR Innovative Use of Computers Grant, “Multi-Media Software Platform for Teaching Elementary Statistical Concepts”

2004: PI for \$12,000 Summer Research Grant from Claremont College “Multi-Media Software Platform for Teaching Elementary Statistical Concepts: Phase I ‘HyperFishing’ Game”

2004: PI for \$8,950 Reliability Research Support from Sonus Networks

2004-2006: PI for \$104,989 NSF Grant “Collaborative Research: Tracking Statistics and Inference for Indirect Measurements”

2005: PI for \$320,144 Department of Homeland Security Grant “Data Generation Capability for Information Discovery and Analysis Systems Evaluation”

2005: PI for \$1,800 UCR Innovative Use of Computers Grant “Development of Software Skills to Analyze Markov Process Models”

2005: PI for \$6,000 Summer Research Grant from Claremont College “Multi-Media Software Platform for Teaching Elementary Statistical Concepts: Phase II ‘Streaky Baseball’ Game”

2005: PI for \$200 CNAS Scholar Summer Research Grant “Markov Analysis and its Application to Reliability Analysis”

2006: PI for \$12,000 Summer Research Grant from Claremont College, “Multi-Media Software Platform for Teaching Elementary Statistical Concepts: Phase III ‘What Are the Chances?’ Game”

2007: co-PI for \$10,000 UCR Interdisciplinary Research Grant: “Development of a Portable Sequential Sampling Device”

2008-2013: co-PI for \$1.4M NIH Grant: Identifying Microorganisms Involved in Human Health and Disease Processes.”

2010: PI for \$6,000 Reliability Research Support from Carestream Health

2010-2012: co-PI for \$95K National Institute of Food and Agriculture Grant: “ Sampling Plan Development And Spatial Analysis For Persea Mites In Avocados: A Model System For Crop Pests In The Western Region”

2010-2011: co-PI for \$51K California Avocado Commission: "Development of Binomial Sampling Plan for Persea Mites"

2011-2014: co-PI for \$228K California Department of Food and Agriculture: "Biological Control of Arthropod Pests in California Agriculture: Future Prospects with Special Emphasis on its Role in Managing Invasive Species."

2013: PI for \$5,000 Reliability Research Support from Carestream Health

2013-2015: co-PI for \$153K American Vineyard Foundation: "Development and implementation of management strategies for grapevine leafroll disease and mealybug vectors."

2013-2015: co-Investigator for \$442,852 National Institute of Health: "Modulation of immune senescence by androgen treatment in aged male macaques."

2014-2015: PI for \$30K UCR Academic Senate: "Graduate-Level Data Mining Class in Department of Statistics."

2014-2015: co-Investigator for a no-budget NCAA grant: Student Athletes vs. Athlete Students

2015-2018: Senior Personnel for \$1,168,650 NSF/REU: "Research Experiences in Integrated Computational Entomology."

2016-2021: Senior Personnel for \$2,999,000 NASA: "Fellowships and Internships in Extremely Large Data Sets."

2016-2022: co-PI for \$821,079 NSF/NRT Integrated Computational Entomology (no cost extension approved thru 8/31/2022)

2017: PI for \$500 CNAS RISE Summer Research Grant "Design of Continuous Sampling Plans with Imperfect Testing

2017-2018: co-PI for \$75K Seed Initiative Grant from UCR Office of Research (joint with Manuela Martins-Green and James Borneman) "Wound environmental conditions critical to biofilm formation."

2018: PI for \$10,000 Reliability Research Support from Mathematical Analysis Research Corporation

2018-2021: co-PI for \$400K USDA: Agriculture and Food Research Initiative Competitive Grant Program, "Interactions among crop cultivars and the indigenous hyperparasite *D. oviparasitica* enabling development of cyst nematode suppressive soils"

2018-2019: co-PI for \$100K Agriculture and Natural Resources - University of California: High Risk High Reward program, "Creating Cyst Nematode Suppressive Soils by Managing Indigenous Populations of the Hyperparasitic Fungus *Dactylella oviparasitica*."

2018-2021: co-PI for \$413K California Department of Pesticides, "To Spray or Not To Spray?: Using Small Cheap IR sensors to Automate Pest Ant Counts."

2018-2022: co-PI for \$640K Center for Advancing Women in Technology Technology Pathway Initiative, "Advancing Diversity in Computing through the Undergraduate Program in Data Science."

2019-2020: co-PI for \$408M National Institute of Health, "Microbiome dynamics from commensal to biofilm-forming,"

2021-2024: co-PI for \$186K University of California, "Mining Text for Bias in Written Comments of Student Evaluations of Teaching."

2003-2015: UCR Statistical Collaboratory Project Funding

AY 2003-2004: \$19,445

AY 2004-2005: \$131,860

AY 2005-2006: \$147,154

AY 2006-2007: \$100,106

AY 2007-2008: \$141,462

AY 2008-2009: \$106,314  
AY 2009-2010: \$85,009  
AY 2010-2011: \$88,709  
AY 2011-2012: \$86,220  
AY 2012-2013: \$127,856  
AY 2013-2014: \$ 46,752  
AY 2014-2015: \$60,000  
AY 2015-2016: Sabbatical Year  
AY 2016-2017: Campus Funding Model Initiated

## **PHD STUDENTS**

1. Qi Zhang (2007), Different Statistical Tests to Assess the Validity of One-Part Software Reliability Models
2. Scott Lesch (2007), A New Class of Goodness-of-Fit Tests Based on Linear Functions of Order Statistics for the Exponential Distribution under General Type II Censoring Schemes
3. Veronica Montes de Oca (2008), Nonparametric CUSUM Algorithms with Applications to Network Surveillance
4. Yingtao Bi (2008), Theoretical Analysis of Classification under CCC-Noise and Its Application to Semi-supervised Text Mining
5. Payal Shah (2008), Sequential Sampling Methods Using Generalized Linear Models with Applications to Pest Density Estimation
6. Hua Yu (2009), Neutral Zone Classifiers Using a Decision-Theoretic Approach With Application to DNA Array Analyses
7. Jeff Pettyjohn (2010), Model-based Estimation and Inference Procedures for Clock Synchronization
8. Xiang Judy Li (2010), Sequential Probability Ratio Tests for Generalized Linear Mixed Models
9. Zhanpan Zhang (2011), Clustering: Algorithm, Optimization and Inference
10. DePalma, Elijah (2011), Sequential Hypothesis Testing With Spatially Correlated Presence-Absence Data and the Corridor Problem
11. Scott Benecke (2012), Bayes Neutral Zone Classification in Unsupervised and Semi-Supervised Settings
12. Rebecca Le (2012), Alternative Approaches in Multi-label Neutral Zone Classification Problems
13. Tatev Ambartsoumian (2013), Cumulative Sum Algorithms Based on Nonparametric Kernel Density Estimators
14. Yingzhuo Joyce Fu (2013), Statistical Process Control Methods for Network Monitoring Using Generalized Linear Mixed Model

15. Anne Hansen (2013), Goodness of Fit Tests for Autoregressive Logistic Regression Models and Generalized Linear Mixed Models
16. Peter Yang (2013), Approximate Prediction Intervals for Generalized Linear Mixed Models Having a Single Random Effect
17. Hyunkyung Yuna Kim (2015), Sequential Neutral Zone Classifiers with Application to Longitudinal Data.
18. Fei He (2015), Spatial Clustering to Search for Hot Spots.
19. Hua Peng (2017), Designing One-Sided Group Sequential Clinical Trials to Detect a Mixture Alternative.
20. Shangjie Xu (2018), Statistical Process Control for Monitoring Type I Censored Weibull Lifetimes and INAR(1) Processes.
21. Samantha VanSchalkwyk (2020), A Bayesian Longitudinal Trend Analysis of Count Data With Gaussian Processes.
22. Dylan Friel (2022), Wilcoxon Rank Sum Tests to Detect One-Sided Mixture Alternatives in Group Sequential Clinical Trials
23. Bradley Lubich (2023), Semi-Parametric Inference for a Semi-Supervised Two-Component Mixture Model.
24. Benjamin Ellis (2025), Nonparametric Estimation of Latent Treatment Effects for Two Armed Clinical Trials Using Infinite Mixture Models.

#### **PUBLICATION HISTORY – Journal Papers Published**

1. Jeske, D. R., “Inference Procedures for the Comparison of a Control Group with a Treatment Group in a Regression Context and with a Mixture Model for Treatment Responses,” **Journal of Nonparametric Statistics**, *to appear*
2. Jeske, D. R. (2025), “Estimation of a Generalized Treatment Effect in a Control Group versus Treatment Group Design,” **The American Statistician**, Vol. 79, pp. 167-172.
3. Lubich, B. and Jeske, D. R. (2024), “Improved Semi-Parametric Inference for a Mixture Model of Responses from a Control vs. Treatment Group Trial,” **Statistical Methods for Medical Research**, Vol. 33, pp. 515-531.
4. Friel, D, Li, Y., Ellis, B., Jeske, D. R., Lee, H., and Kass, P. (2023), “A neutral zone classifier for three classes with an application to text mining,” **Statistical Analysis and Data Mining**, Vol. 16, pp. 560-568.

5. Friel, D. and Jeske, D. R. (2023), "Wilcoxon rank sum tests to detect one-sided mixture alternatives in group sequential clinical trials," **Statistical Methods in Medical Research**, Vol. 32, pp. 1711-1727.
6. Castro, C., Massonnet, M., DiSalvo, B., Jablonska, B., Jeske, D. R., Cantu, D., and Roper, M. C. (2023), Priming grapevine with lipopolysaccharide confers systemic resistance to Pierce's disease and identifies a peroxidase as a key mechanistic component associated with immune memory, **New Phytologist**, Vol. 239, pp. 687-704.
7. Fisher, N. I., Jeske, D. R., Muller, W. G., Rodriguez, P. C., and Ruggeri, F. (2022), The Evolution of Business and Industrial Statistics in the International Statistical Institute, **Statistics Reference Online**, John Wiley & Sons, Ltd. stat08419.
8. Lubich, B., Jeske, D. R., and Yao, W., (2022), Statistical Inference for Methods of Moments Estimators of a Semi-Supervised Two-Component Mixture Model, **The American Statistician**, Vol. 76, pp. 376-383.
9. VanSchalkwyk, S., Jeske, D. R., Kim, J. H. and Martins-Green, M. (2022), A Bayesian Longitudinal Trend Analysis of Count Data With Gaussian Processes, **Biometrical Journal**, Vol. 64, pp. 74-90.
10. Jeske, D. R. (2021), Classification with a Neutral Zone, **Statistics Reference Online**, John Wiley & Sons, Ltd. stat08344.
11. Kim, J. H., Ruegger, P. M., Lebig, E. G., VanSchalkwyk, S., Jeske, D. R., Hsiao, A., Borneman, J., and Martins-Green (2020), High Levels of Oxidative Stress Create a Microenvironment that Significantly Decreases the Diversity of the Microbiota in Diabetic Chronic Wounds and Promotes Biofilm Formation, **Frontiers in Cellular and Infection Microbiology**, Online Publication, <https://doi.org/10.3389/fcimb.2020.00259>.
12. Jeske, D. R. and Yao, W. (2020), Sample Size Calculations for Mixture Alternatives in a Control Group vs. Treatment Group Design, **Statistics, A Journal of Theoretical and Applied Statistics**, Vol. 54, pp. 1-17
13. Schuberg, E., Myhre, J., Jeske, D. R., McQuarrie, A., and Warfield, J. (2020), Objective Comparison of Confidence Bound Methods for Binomial Series System Reliability, **IEEE Transactions on Reliability**, Vol. 69, pp. 533-544.
14. He, F., Jeske, D. R., Grafton-Cardwell, E. (2020), Identification of Hot Spots for Count Data on Spatial Lattice Arrays, **Applied Stochastic Models in Business and Industry**, Vol. 36, pp. 417-431.
15. Jeske, D. R., Smith, S. and Zhang, Z. (2019), Construction, Visualization and Application of Neutral Zone Classifiers, **Statistical Methods for Medical Research**, Vol. 29, pp. 1420-1433.
16. Jeske, D. R. and Wang, Y. (2019), Visualizing When Prior Information Can Reduce the Necessary Size of a Reference Sample when Estimating In-Control Parameters for Shewhart and CUSUM Charts for a Normal Process, **Quality Reliability Engineering International**, Vol. 35, pp. 1929-1940.

17. Ingle, B., Jeske, D. R., Sun, Q. and Roper, M. Caroline (2019), *Xylella fastidiosa* Endoglucanases Mediate the Rate of Pierce's Disease Development in *Vitis vinifera* in a Cultivar-Dependent Manner, **Molecular Plant – Microbe Interactions**, Vol. 32, pp. 1402-1414.
18. Li, J., Jeske, D. R., Zhou, Y. and Zhang, X. (2019), A Wavelet-Based Nonparametric CUSUM for Autocorrelated Processes with Applications to Network Surveillance, **Quality Reliability Engineering International**, Vol. 35, pp. 644-658.
19. Vogel, B. L., Kress, J. and Jeske, D. R. (2019), Student-Athletes vs. Athlete-Students: The academic success, campus involvement, and future goals of Division I student athletes who were university bound compared to those who would not have attended a university had they not been an athlete," online publication in **The Sport Journal** (<https://thesportjournal.org/article/student-athletes-vs-athlete-students-the-academic-success-campus-involvement-and-future-goals-of-division-i-student-athletes-who-were-university-bound-compared-to-those-who-would-not-have-attended/>)
20. Jeske, D. R., Kurum, E., Yao, W. and Rizzo, S. (2018), Sequential Prediction in Linear Models, **Sequential Analysis**, Vol. 37, pp. 311-321.
21. Jeske, D. R., Stevens, N. T., Tartakovsky, A. G. and Wilson, J. D. (2018), Statistical Methods for Network Surveillance (Review Paper, with Discussants), **Applied Stochastic Models in Business and Industry**, Vol. 34, pp. 425-459.
22. Jeske, D. R. (2018), Metrics Used when Evaluating the Performance of Statistical Classifiers, **Biostatistics and Biometrics Open Access Journal**, 8(1): 555728. DOI: 10.19080/BBOAJ.2018.08.555728
23. Kurum, E., Jeske, D. R., Behrendt, C. and Lee, P. (2018), A Copula Model for Joint Modeling of Longitudinal and Time-Invariant Mixed Outcomes, **Statistics in Medicine**, Vol. 37, pp. 3931-3943.
24. Peng, H., Jeske, D. R., SenGupta, A. and Yao, W., (2018), Designing One-Sided Group Sequential Clinical Trials to Detect a Mixture Alternative, **Sequential Analysis**, Vol. 37, pp. 268-291.
25. Cooper, M. L., Daugherty, M. P., Jeske, D. R., Almeida, R. P. P., and Daane, K. M. (2018), Incidence of grapevine leafroll disease: effects of grape mealybug (*Pseudococcus maritimus*) abundance and pathogen supply, **Journal of Economic Entomology**, Vol. 111, pp. 1542-1550.
26. Rodriguez, M. and Jeske, D. R. (2018), Short-Run Contexts and Imperfect Testing for Continuous Sampling Plans, **Algorithms**, Vol. 11, pp.1-11.
27. Jeske, D. R., Stevens, N. T., Wilson, J. D. and Tartakovsky, A. G. (2018), Statistical Network Surveillance, **Statistics Reference Online**, John Wiley & Sons, Ltd. DOI: 10.1002/9781118445112.stat08055
28. Xu, S. and Jeske, D. R. (2017), Repeated SPRT Charts for Monitoring INAR(1) Processes, **Quality Reliability Engineering International**, Vol. 33, pp. 2615-2624.
29. Xu, S. and Jeske, D. R. (2018), Weighted EWMA Charts for Monitoring Type 1 Censored Weibull Lifetimes, **Journal of Quality Technology**, Vol. 50, pp. 220-230.

30. Jeske, D. R. and Myhre, J. M. (2018), Regression Using Pairs vs. Regression on Differences: A Real-Life Case Study for a Master's Level Methods Class, **The American Statistician**, Vol. 72, pp. 163-168.
31. Myhre, J., Jeske, D. R., Li, J. and Hansen, A. M. (2018), Combining Binomial Test Data via Two-Stage Solutions, **Applied Stochastic Models in Business and Industry**, Vol. 34, pp. 20-30.
32. Jeske, D. R. and Smith, S. (2018), Maximizing the Usefulness of Statistical Classifiers for Two Populations with Illustrative Applications, **Statistical Methods for Medical Research**, Vol. 27, pp. 2344-2358.
33. Wittig, K., Linehan, J., Babalonia, G., Mejia, R., Amparo, C., Smith, D., Wilson, T.G., Jeske, D.R. and Smith, S.S. (2017). Do Circulating Tumor Cell Numbers Increase in Prostate Cancer Patients after Attentive DRE or Robot Assisted Prostatectomy? **Internal Medicine Review**, Vol. 3, pp. 484-494.
34. Versteeg, K., Menicucci, A. R., Woolsey, C., Mire, C. E., Geisbert, J. B., Cross, R. W., Agans, K. N., Jeske, D. R., Messaoudi, I. and Geisbert, W., (2017), Infection with the Makona variant results in a delayed and distinct host immune response compared to previous Ebola virus variants, **Scientific Reports**, 7(1-1):9730.
35. Jeske, D. R., Linehan, J. A., Wilson, T. G., Kawachi, M. H., Witting, K., Lamparska, K., Amparo, C., Mejia, R., Lai, F., Georganopoulou, D., and Smith, S. (2017), Two-Stage Neutral Zone Classifiers that Minimize PCA3 and the PSA Proteolytic Activity Testing in the Prediction of Prostate Cancer Recurrence, **Canadian Journal of Urology**, Vol. 24, pp. 9089-9097.
36. Kim, H. and Jeske, D. R. (2017), Truncated SPRTs with Application to Multivariate Normal Data, **Sequential Analysis**, Vol 36, pp. 251-277.
37. Jeske, D. R. (2016), Determining the Phase 1 Study Sample Size to Control the Accuracy of the Conditional In-Control ARL of a Normal-Theory CUSUM, **Quality Reliability Engineering International**, Vol. 32, pp. 2499-2504.
38. Wittig, K., Yamzon, J., Smith, D., Jeske, D. R. and Smith, S. (2016), Pre-Surgical Biomarker Performance in the Detection of Gleason Upgrading in Prostate Cancer, **Cancer Epidemiology, Biomarkers, and Prevention**, Vol. 25, pp. 1643-1645.
39. Jeske, D. R., Longmate, J., Katheria, V. and Hurria, A. (2016), Mining Branching Rules from Past Survey Data with an Illustration Using a Geriatric Assessment Survey for Older Adults with Cancer, **Algorithms**, Vol. 9, pp. 33-46.
40. Dowell, R. V., Gill, R. J., Jeske, D. R. and Hoddle, M. (2016), Exotic Terrestrial Invertebrate Invaders in California from 1700 to 2015: An Analysis of Records, **Proceedings of the California Academy of Sciences**, Vol. 63, pp. 63-157.
41. Jeske, D. R. (2016) On the Conditional In-Control ARL of a CUSUM Statistic, **Applied Stochastic Models for Business and Industry**, Vol. 32, pp. 558-564.
42. Jeske, D. R. (2016), CUSUM and Shewhart Algorithms for Detecting Translations in Gamma Distributions, **Quality Reliability Engineering International**, Vol. 32, pp. 1205-1211.

43. Klein, J. A. and Jeske, D. R. (2016), Maximum safe dosages of tumescent lidocaine, **Journal of Anesthesia & Analgesia**, Vol. 122, pp. 1350-1359.
44. Zhang, X., Jeske, D. R., Li, J. and Wong, V. (2016), A Sequential Logistic Regression Classifier Based on Mixed Effects with Applications to Longitudinal Data, **Computational Statistics and Data Analysis**, Vol. 94, pp. 238-249.
45. Wang, X., Jeske, D. R. and Serpedin, E. (2015), A Statistical Overview of a Class of Clock Synchronization Algorithms for Wireless Sensor Networks, **Algorithms**, Vol. 8, pp. 590-620.
46. Hoddle, M, Hoddle, C., Faleiro, J., El-Shafie, H., and Jeske, D. R., (2015). How Far Can the Red Palm Weevil, *Rhynchophorus ferrugineus* (Coleoptera: Curculionidae), Fly?: Computerized Flight Mill Studies With Field Captured Weevils, **Journal of Economic Entomology**, Vol. 108, pp. 2599-2609.
47. Hsu, K. and Jeske, D. R., (2015) Group Sequential Clinical Trials for Gamma Distributions, **UCR Undergraduate Research Journal**, Vol. 9, pp. 67-72.
48. Wilson, R., Marshall, N., Jeske, D. R., Purnell, J., Thornburg, K., and Messaoudi, I. (2015), Maternal obesity alters immune cell frequencies and responses in umbilical cord blood samples, **Pediatric Allergy and Immunology**, Vol. 26, pp. 344-351.
49. Ambartsoumian, T. and Jeske, D. R., (2015). Nonparametric CUSUM Control Charts and their use in Two-State SPC Applications, **Journal of Quality Technology**, Vol. 47, pp. 264-277.
50. Fu, Y. and Jeske, D. R. (2014), SPC Methods for Non-stationary Correlated Count Data with Application to Network Surveillance, **Applied Stochastic Models in Business and Industry**, Vol. 30, pp. 708-722.
51. Haberthur, K., Meyer, C., Arnold, N., Engelmann, F., Jeske, D. R. and Messaoudi, I. (2014), Intrabronchial infection of rhesus macaques with simian varicella virus results in a robust immune response in the lungs, **Journal of Virology**, Vol. 88, pp. 12777-12792.
52. Pilkington, L.J., Lewis, M., Jeske, D. R. and Hoddle, M. (2014), Calculation and thematic mapping of demographic parameters of *Homalodisca 5 vitripennis* (Germar) (Hemiptera: Cicadellidae) in California, **Annals of the Entomological Society of America**, Vol. 107, pp. 424-434.
53. Conoley, C., Vasquez, E., Bello, B., Oromendia, M. and Jeske, D. R. (2015), Celebrating the Accomplishments of Others: Mutual Benefits of Capitalization, **The Counseling Psychologist**, Vol.1, pp. 1-15
54. Hansen, A, Jeske, D. R. and Kirsch, W. (2015), A Chi-Square Goodness-of-Fit test for Autogressive Logistic Regression Models with Applications to Patient Screening, **Journal of Biopharmaceutical Statistics**, Vol. 25, pp. 89-108.
55. Jeske, D. R. and Yang, Cheng-Hsueh (2013), Approximate Prediction Intervals for Generalized Linear Models Having a Single Random Factor, **Statistics Research Letters**, Vol. 2, pp. 85-95.

56. Jeske, D. R., Li, J. and Wong, V. (2013) On the Effectiveness of Mixed Model Based Logistic Regression Classifiers for Longitudinal Data, **Mathematical Theory and Applications**, Vol. 3, No. 3, pp. 19-30.
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Pham, L., Zhang, X. and Jeske, D. R. (2002) Scaling System Test Software Failure Rate Estimates For Use In Field Environments, **Proceedings of the Annual Conference of The American Statistical Association**, (New York) pp. 2692-2696.

Jeske, D. R., Willis, T. M. and So, Y. (1991). Evaluating the Probability Distribution of the Sum of Independent Finite Integer-Valued Random Variables. **Proceedings of the SAS Users Group International Conference**, (New Orleans) pp. 1461-1466.

Jeske, D. R. and Fulewider, D. (1989). Determination of Polynomial Sums-of-Squares Contrast Coefficients: An Application of Model Reparametrization Results Using the GLM Procedure, **Proceedings of the SAS Users Group International Conference**, (San Francisco) pp. 1340-1343.

## **PATENTS – Granted**

“Geolocation Estimation Method for CDMA Terminals Based on Pilot Strength Measurements,” application granted on 7/17/01, US Patent No. 6,263,208, with K. K. Chang and K. M. Rege.

“A Bayesian-Update Based Location Prediction Method for CDMA Systems,” application granted on 5/13/03, US Patent No. 6,564,065, with K. K. Chang, B. H. Chen, T. C. Chiang, J. Freidenfelds, and K. M. Rege.

“Autonomous Calibration Of a Wireless Global Positioning System,” application granted on 5/27/03, US Patent No. 6,570,529, with K. Budka, D. Calin and R. Richton.

“Likelihood-Based Geolocation Prediction Algorithms for CDMA Systems Using Pilot Strength Measurements,” application granted on 5/3/05, US Patent No. 6,889,053, with K. K. Chang, K. M. Rege and Y. T. Wang.

“Clock Offset Estimation With Bias Correction,” application granted on 4/4/2006, US Patent No. 7,023,884, with M. Chuah and A. Sampath.

“Method of Estimating a Signal-To-Interference+Noise Ratio (SINR)”, application granted on 2/27/07, US Patent No. 7,184,497, with A. Sampath.

“A Method of Estimating the Offset Between Clocks of Network Elements,” application granted on 8/14/07, US Patent No. 7,257,133, with A. Sampath.

“Method, System and Computer Program Product for Improving System Reliability, application granted on 10/2/07, US Patent No. 7,278,048,, with J. C. Clark, O. H. Salvador, K. A. Sohraby and X. Zhang.

“Method of Estimating a Signal-To-Interference+Noise Ratio (SINR) Using Data Samples”, granted on 11/18/08, US Patent No. 7,453,933, with P. Monogioudis, K. Rege and A. Sampath.

“Nonparametric Method for Determination of Anomalous Event States in Complex Systems Exhibiting Non-stationarity,” granted on 11/17/09, US Patent No. 7,620,523 (see also US Patent No. 7,869,967 and 8,275,563), with M. Marvasti.

“Nonparametric Method for Determination of Anomalous Event States in Complex Systems Exhibiting Non-stationarity,” granted on 1/11/11, US Patent No. 7,869,967 (see also US Patent No. 7,620,523 and 8,275,563), with M. Marvasti.

“Nonparametric Method for Determination of Anomalous Event States in Complex Systems Exhibiting Non-stationarity,” granted on 9/25/12, US Patent No. 8,275,563 (see also US Patent No. 7,620,523 and 7,869,967), with M. Marvasti

## INVITED TUTORIALS

“An Introduction to Software Reliability Modeling,” delivered at the **Reliability, Availability, Maintainability Symposium (RAMS)** (Las Vegas, NV) January 28, 2008.

## EXTERNAL INVITED TALKS

“Estimation of a Generalized Treatment Effect in a Control Group versus Treatment Group Design,” **World Statistics Congress of the International Statistical Institute**, The World Forum at The Hague (Netherlands), October 8, 2025.

“How Artificial Intelligence Can Help Mitigate Bias in Student Evaluations of Teaching,” **ISBIS Satellite Conference to the 65<sup>th</sup> World Statistics Congress**, University of Amsterdam, October 2, 2025.

“How Artificial Intelligence Can Help Mitigate Bias in Student Evaluations of Teaching,” **7<sup>th</sup> Calvin and Jean Long Distinguished Lecture in Mathematics Public Talk** Washington State University, February 19, 2025.

“Estimation of a Generalized Treatment Effect in a Control Group versus Treatment Group Design,” **Post Long Lecture Department Colloquium**, Washington State University, February 20, 2025.

“Estimation of a Generalized Treatment Effect in a Control Group versus Treatment Group Design,” **3<sup>rd</sup> International Workshop=Conference on Statistical Modelling and Software Applications** (Carafaga University, Philippines, Virtual Talk), December 21, 2024.

“Improving the Usefulness of Statistical Classifiers,” **European Network for Business and Industrial Statistics Conference** (Leuven, Belgium), September 16, 2024.

“From Statistician to Institutional Leader: The Risks and Rewards of Making the Leap,” Panel Speaker, **Joint Statistical Meetings** (Portland, Oregon), August 4, 2024.

“A Neutral Zone Classifier for Three Classes with an Application to Text Mining,” Joint Statistical Meetings (Portland, Oregon), August 6, 2024 (Invited Session organized by the editor of *Statistical Analysis and Data Mining*, presented by my PhD student and Postdoc, Dylan Friel)

“On Combining Two Estimators with an Application to the Estimation of a Responder/Non-Responder Treatment Effect,” Department of Mathematics, Statistics, and Data Science, **San Diego State University**, April 24, 2024.

“Using Data to Understand Faculty Diversity and Equity,” **University of California San Diego**, (Virtual), April 15, 2024

“Improving the Usefulness of Statistical Classifiers,” **Austin Peay State University** (Clarksville, Tennessee), April 10, 2024.

“Using Data to Understand Faculty Diversity and Equity,” **University of California Academic Personnel Academy**, (Anaheim, California), February 28, 2024

“Design and Inference for a RCT when Treatment Observations Follow a Two-Component Mixture Model,” **European Network for Business and Industrial Statistics Conference** (Valencia, Spain), September 11, 2023.

“Mining Text Data for Bias in Written Comments of Student Evaluations of Teaching,” **World Statistics Congress of the International Statistical Institute** (Ottawa, Canada), May 20, 2023.

“Design and Inference for a RCT when Treatment Observations Follow a Two-Component Mixture Model,” **35<sup>th</sup> Panhellenic and 1<sup>st</sup> International Statistics Conference** (Virtual, Keynote Talk, ~30 attendees), May 28, 2023.

“A Neutral Zone Classifier for Three Classes with an Application to Text Mining,” **National Institute of Statistical Sciences Graduate Student Conference** (Virtual, Keynote Talk, ~25 attendees), May 20, 2023.

“Careers Beyond Tech,” **National Institute of Statistical Sciences Career Fair** (Virtual, Panel Member, ~50 attendees), March 22, 2023.

“Rethinking Retention and Redefining (Faculty Diversity),” **UCR Center for Ideas and Society** (Virtual, Panel Member), February 13, 2023.

“Design and Inference in a RCT when Treatment Observations Follow a Two-Component Mixture Model,” **Orange County Biostatistics Symposium** (Irvine, California), October 15, 2022.

“Design and Inference in a RCT when Treatment Observations Follow a Two-Component Mixture Model,” **International Society of Business and Industrial Statistics** (Naples, Italy), June 20, 2022.

“Statistical inference for method of moments estimators of a semi-supervised two component mixture model,” International DAGSTAT 2022 Conference (**Universität Hamburg and the Helmut-Schmidt-Universität., Virtual Conference**), March 29, 2022 (Plenary Speaker)

“Suggestions for How to be a Good Mentor,” **National Institute of Statistical Sciences** (Virtual, Panel Member), February 25, 2022.

“An Introduction to the National Institute of Statistical Science and the International Society for Statistics in Business and Industry,” **Southern California Chapter of ASA Fall Kick-Off Meeting** (Virtual), December 11, 2021.

“Sample Size Calculations for Mixture Alternatives in a Control Group vs. Treatment Group Design,” **Southern California Chapter of ASA Fall Kick-Off Meeting** (Virtual), December 11, 2021.

“Sample Size Calculations for Mixture Alternatives in a Control Group vs. Treatment Group Design,” International Conference on Advances in Interdisciplinary Statistics and Combinatorics (**Federal University of Bahia, Salvador, Brazil, Virtual Conference**), November 16, 2021.

“Sample Size Calculations for Mixture Alternatives in a Control Group vs. Treatment Group Design,” International Conference on Advances in Interdisciplinary Statistics and Combinatorics (**University of North Carolina, Greensboro, Virtual Conference**), October 8-10, 2021 (Plenary Speaker)

“The NISS Affiliate Program,” **Joint Statistical Meetings** (Virtual), August 11, 2021

“Data Science and ISI,” **International Statistical Institute World Statistics Congress** (The Hague, Virtual Conference), July 13, 2021.

“Sample Size Calculations for Mixture Alternatives in a Control Group vs. Treatment Group Design,” **International Virtual Conference on Advanced Statistical Techniques in Business and Industry** (Kochi, India, Virtual Conference), December 28-30, 2020.

“Construction, Visualization and Application of Neutral Zone Classifiers (Keynote Talk),” **International Conference on Data Analytics for Business and Industry** (Bahrain, Virtual Conference), October 26-27, 2020

“Adventuring Beyond  $p < 0.05$ ” (Panel Member), **ASA Conference on Statistical Practice** (Sacramento, California), February 20-22, 2020.

“Construction, Visualization and Application of Neutral Zone Classifiers,” **International Chinese Statistical Association (ICSA) International Conference** (Hangzhou, China) December 20-22, 2019

“Discussion of a Special Issue of The American Statistician: Statistical Inference in the 21st Century: A World Beyond  $p < 0.05$ , Technical Overview of Some of the Alternative Procedures (Keynote Talk),” **Southern California Chapter of ASA Fall Kick-Off Meeting** (Azusa, California), December 7, 2019.

“Discussion of a Special Issue of The American Statistician: Statistical Inference in the 21st Century: A World Beyond  $p < 0.05$ , Technical Overview of Some of the Alternative Procedures,” **Arizona State University** (Tempe, Arizona), November 22, 2019.

“Discussion of a Special Issue of The American Statistician: Statistical Inference in the 21st Century: A World Beyond  $p < 0.05$ , Technical Overview of Some of the Alternative Procedures,” **American Mathematical Society** (Riverside, California), November 10, 2019.

“Discussion of a Special Issue of The American Statistician: Statistical Inference in the 21st Century: A World Beyond  $p < 0.05$ , Technical Overview of Some of the Alternative Procedures,” **Western Michigan University** (Kalamazoo, Michigan), November 1, 2019.

“Discussion of a Special Issue of The American Statistician: Statistical Inference in the 21st Century: A World Beyond  $p < 0.05$ , Technical Overview of Some of the Alternative Procedures,” **RAND Corporation** (Santa Monica, California), September 25, 2019.

“Sample Size Calculations for Mixture Alternatives in a Control Group vs. Treatment Group Design (Plenary Talk),” **International Conference on Statistics – Theory and Applications** (Lisbon, Portugal), August 13-14, 2019.

“Discussion of March 2019 Special Issue of The American Statistician: Technical Overview of some of the Alternative Procedures,” **Joint Statistical Meetings** (Denver, Colorado), July 28 – 31st, 2019,

“Visualizing when prior information can reduce the necessary size of a reference sample when estimating in-control parameters for Shewhart and CUSUM charts for a normal process,” **ASA Quality and Productivity Research Conference** (Washington D.C.) June 10-13, 2019.

“Two Stage Classifiers with Applications to Prostate Cancer Treatment,” **City of Hope Faculty Research Forum** (Duarte, CA), March 21, 2019.

“Maximizing the Usefulness of Statistical Classifiers for Two Populations (Plenary Talk),” **Model Based Clustering and Classification Workshop** (Catania, Italy), September 5-7, 2018.

“Weighted EWMA Charts for Monitoring Type I Censored Weibull Lifetimes,” **Joint Statistical Meetings** (Vancouver, Canada), July 28 – August 3, 2018.

“Weighted EWMA Charts for Monitoring Type I Censored Weibull Lifetimes,” **International Symposium on Business and Industrial Statistics** (Piraeus, Greece), July 4-6, 2018.

“Repeated SPRT Charts for Monitoring INAR(1) Processes,” **ASA Quality and Productivity Research Conference** (Santa Fe, NM) June 11-14, 2018.

“Maximizing the Usefulness of Statistical Classifiers for Two Populations (*Plenary Talk*),” **Conference on Predictive Inference and Its Applications** (Iowa State University, Ames, Iowa), May 7, 2018.

“A Machine Learning Approach for Improving The Accuracy of Medical Diagnosis,” (*Keynote Address*), **Annual Symposium of the Kansas-Western Missouri Chapter of the American Statistical Association** (Kansas City, Kansas), April 19, 2018.

“A Two-Stage Classifier with Applications to Medical Diagnosis,” **International Chinese Statistical Association – Canada Chapter** (Vancouver, Canada), August 19, 2017.

“A Wavelet-Based Nonparametric CUSUM Control Chart for Auto-correlated Processes with Applications to Network Surveillance,” **Joint Statistical Meetings of the American Statistical Association** (Baltimore MD) August 1, 2017.

“A Two-Stage Classifier with Applications to Medical Diagnosis,” **6<sup>th</sup> International Workshop on Sequential Methods** (Rouen, France), June 21, 2017.

“Maximizing the Usefulness of Statistical Classifiers for Two Populations with Illustrative Applications,” **Department of Mathematics and Statistics, University of San Francisco** (San Francisco, CA), March 1, 2017.

“Nonparametric CUSUM Charts and the use in Two-Stage SPC Procedures,” **Fall Technical Conference**, (Minneapolis, MN) October 7, 2016

“Neutral Zone Classifiers with Applications to Patient Screening,” **Virginia Tech University, Department of Statistics** (Blacksburg, VA) September 8, 2016

“Neutral Zone Classifiers with Applications to Decisions About Prostate Cancer Surgery,” **Inland Empire Local Chapter of the American Society of Quality** (Rialto, CA) July 20, 2016

“Determining the Reference Sample Size Needed to Control the Accuracy of the Conditional In-Control ARL of a Normal-Theory CUSUM,” **ASA Quality and Productivity Research Conference** (Tempe, AZ) June 13-15, 2016.

“Maximizing the Usefulness of Statistical Classifiers for Two Populations,” **International Society for Business and Industrial Statistics** (Barcelona, Spain), June 8-10, 2016

“Maximizing the Usefulness of Statistical Classifiers for Two Populations,” **Measurement Science Conference** (Anaheim, CA) March 25, 2016

"Neutral Zone Classification with Applications to Patient Screening, **Kaiser Permanente Biostatistics Division** (Pasadena, CA) March 16, 2016

"Neutral Zone Classifiers and their Applications to Medical Screening," **University of Toronto Department of Biostatistics** (Toronto, Canada) March 1, 2016

"Neutral Zone Classifiers and their Applications to Medical Screening," **Kaiser Permanente Research Division** (Oakland, CA) December 17, 2015

"A Wavelet-Based Nonparametric CUSUM Control Chart for Autocorrelated Processes with Applications to Network Surveillance," **60th World Statistics Congress** (Rio de Janeiro, Brazil), July 28, 2015.

"CUSUM Algorithms for Detecting Translated Gamma Distributions," **ASA Quality and Productivity Research Conference** (Raleigh, NC), June 12, 2015.

"Sequential Neutral Zone Classification," (joint with Hyunkyung Kim,) **School of Mathematical Sciences, Arizona State University**, (Tempe, AZ) April 27, 2015.

"Sequential Neutral Zone Classification," (joint with Hyunkyung Kim, presented by H. Kim) **City of Hope National Medical Center** (Duarte, CA) April 8, 2015.

"CUSUM and Shewhart Algorithms for Detecting Translated Gamma Distributions," **San Diego State University Department of Mathematics and Statistics** (San Diego, CA) November 20, 2014

"CUSUM and Shewhart Algorithms for Detecting Translated Gamma Distributions," **Annual Conference of the International Indian Statistical Association** (Riverside, CA) July 11, 2014

"Sequential Neutral Zone Classifiers," **International Society for Business and Industrial Statistics** (Durham, NC) June 10, 2014

"Academic Careers in Statistics," **Southern California Chapter of the American Statistical Association Career Day Event**, February 22, 2014.

"Neutral Zone Classifiers and their Applications," **UNLV Department of Mathematical Sciences**, (Las Vegas, NV), September 12, 2013.

"Nonparametric CUSUM Control Charts for Periodic SPC Applications," **Spring Research Conference on Statistics in Industry and Technology** (Los Angeles, CA), June 22, 2013.

"Statistical Process Control Methods for Network Monitoring Using Generalized Linear Mixed Models," **ASA Quality and Productivity Research Conference** (Niskayuna, NY), June 5, 2013.

"Neutral Zone Classifiers and their Applications," **UCLA Department of Biostatistics**, (Los Angeles, CA), February 27, 2013

"Logistic Regression Classifiers with Longitudinal Data," **Joint Mathematical Meetings** (San Diego, CA), January 12, 2013.

"Neutral Zone Classifiers and their Applications," **Infections Disease Group in UCLA School of Medicine**, (Los Angeles, CA), October 19, 2012.

"Bayes Neutral Zone Classifiers with Applications to Nonparametric Unsupervised Settings," **Keynote Speaker Fall Meeting of the Montana Chapter of ASA**, (Bozeman, MT), September 18, 2012.

"Overview of Neutral Zone Classifiers," **Research Forum Colloquium**, Alere, Inc. (*San Diego, CA*) June 29, 2012.

"Co-clustering Spatial Data Using a Generalized Linear Mixed Model," **International Society for Business and Industrial Statistics** (Bangkok, Thailand) June 20, 2012

"Minimum Size Survival Analysis Sampling Plans for Comparing Multiple Treatment Groups to a Single Control Group," **Portland Chapter of American Statistical Association** (*Portland, OR*) March 28, 2012.

"Sequential Hypothesis Testing for Pest Counts Using Generalized Linear Mixed Models," **American Mathematical Society Western Section Fall Meeting** (*Los Angeles, CA*), October 9, 2010

"Sequential Fixed Width Confidence Intervals for the Offset between two Network Clocks," **International Society for Business and Industrial Statistics** (Portoroz, Slovenia) July 6, 2010

"Sequential Tests for Poisson GLMMs with Applications to Randomized Clinical Trials," **Department of Mathematics, San Diego State University** (San Diego, CA) April 9, 2010.

"Using the Empirical Probability Integral Transformation to Construct a Nonparametric CUSUM Algorithm," **ASA Quality and Productivity Research Conference** (Yorktown Heights, NY) June 4, 2009

"Statistical Aspects of Clock Synchronization Algorithms," **Department of Mathematics, University of California, at San Diego** (San Diego, CA), May 7, 2009.

"Analysis of Injury Rate Data in NFL Games," **National Football League** (New York, New York), December 2008.

"Teaching Consulting and Collaboration Skills in an Academic Environment, " **Joint Statistical Meetings of the American Statistical Association** (Denver, CO) August 4, 2008.

"Statistics: A Discipline with Applications to Every Day Life," **Joint Statistical Meetings of the American Statistical Association** (K-12 Teacher's Meeting within a Meeting) (Denver, CO) August 4, 2008.

"Alternative Confidence Intervals for the Offset Between Two Network Clocks" **International Society for Business and Industrial Statistics** (Prague, Czech) July 2, 2008.

"The Statistical Consulting Collaboratory at UC-Riverside: Mission and Methods," **Department of Mathematics and Statistics, California State University at Long Beach** (Long Beach, CA) June 11, 2008.

"Alternative Confidence Intervals for the Offset Between Two Network Clocks," **ASA Quality and Productivity Research Conference** (Madison, WI) June 5, 2008

"An Introduction to Software Reliability Modeling," **U.S. Navy Operations Research Division** (Washington, D.C.) December 18, 2007.

“Mean Squared Error and Robustness Properties of Alternative Clock Offset Estimators,” **International Society for Business and Industrial Statistics** (Azores, Portugal) August 19, 2007.

“Statistics: A Discipline with Applications to Every Day Life,” **Joint Statistical Meetings of the American Statistical Association** (K-12 Teacher’s Meeting within a Meeting) (Salt Lake City, UT) July 30, 2007.

“Building an Academic Statistical Consulting Unit: The Experience at UC-Riverside,” **Department of Statistics at University of Georgia** (Athens, GA) June 13, 2007.

“Statistical Methods in Network Surveillance Models (Panel Discussant),” **Downtime Zero One-Day Conference Sponsored by Integrien Corporation** (New York, NY) March 20, 2007.

“An Overview of the Statistical Consulting Collaboratory at UC-Riverside,” **Joint Statistical Meetings of the American Statistical Association** (Seattle, WA) August 7, 2006.

“Jackknife Bias Correction of a Clock Offset Estimator,” **International Conference on Mathematical and Statistical Modeling in Honor of Enrique Castillo** (Ciudad Real, Spain), June 26-29, 2006.

“Semi-Supervised Text Classification: Partial Training from Unlabeled Data,” **Annual Conference of the Institute of Industrial Engineering** (Orlando, FL) May 21-23, 2006.

“Generation of Synthetic Data Sets for Evaluating the Accuracy of Information Discovery and Analysis Systems,” **Department of Mathematics and Statistics, California State University at Long Beach** (Long Beach, CA) April 28, 2006.

“Workshop on Hardware and Software Reliability Modeling with Markov Models,” **Optical Networking Group at Lucent Technologies** (Nuremburg, Germany) September 14-16, 2005.

“The Transition from ‘Service’ to ‘Collaboration’ in a Consulting Environment,” **Joint Statistical Meetings of the American Statistical Association** (Minneapolis, MN) August 11, 2005.

“Alternative Approaches to Computing Tolerance Intervals from Sensitivity Experiments,” **Statistics Research Group at Los Alamos National Laboratories** (Los Alamos, NM) July 26, 2005.

“The Transition from ‘Service’ to ‘Collaboration’ in a Consulting Environment,” **Department of Statistics, University of California at Los Angeles** (Los Angeles, CA) May 7, 2005.

“Software-Based Instruction Tools That Demonstrate The Usefulness of Statistics To High School Students and College Freshmen: Concept and Prototype,” **Southern California Chapter of the American Statistical Association Fall Kick-Off Meeting** (Claremont, CA) November 6, 2004.

“Mining and Tracking Useful Features in Massive Text Data with Applications to Risk Management,” **INFORMS Annual Meeting** (Denver, CO) October 24, 2004.

“Estimation of Clock Offset Using Bootstrap Bias-Correction Techniques,” **The 10<sup>th</sup> Annual Spring Research Conference on Statistics in Industry and Technology** (Gaithersburg, MD) May 20, 2004

“Tunable Approximations for the Mean and Variance of the Maximum of Heterogeneous Geometrically Distributed Random Variables,” **Qualcomm, Inc.** (San Diego, CA) May 18, 2004

“Estimation of Clock Offset Using Bootstrap Bias-Correction Techniques,” **Department of Mathematics and Statistics, San Diego State University** (San Diego, CA) April 30, 2004

“Good Reasons to Consider a Graduate Degree in Statistics,” **Department of Mathematics and Statistics, California State University at Long Beach** (Long Beach, CA) March 23, 2004

“Mining Massive Report Data and Developing Tracking Statistics,” (joint with R. Y. Liu, Rutgers University) **Joint Statistical Meetings of The American Statistical Association** (Toronto, Canada) August 9, 2004

“Statistical Modeling in the Bell Labs Environment,” **Department of Mathematics, Claremont McKenna College**, (Claremont, CA) February 17, 2004

“The Statistical Consulting Collaboratory at UC-Riverside,” **The Fifth Annual Southern California Chapter of the American Statistical Association’s Workshop Emphasizing Education** (Claremont, CA) November 15, 2003

“Useful Software Reliability Modeling Practices in Industry Environments,” **Army Conference on Applied Statistics** (Napa Valley, CA) October 29-31, 2003

“Some Successful Approaches to Software Reliability Modeling in Industry,” **ASA Quality and Productivity Research Conference**, (Yorktown Heights, NY) May 21, 2003

“An Overview of Geolocation Algorithms,” **Fort Monmouth Research and Development Engineering Center**, (Ft. Monmouth, NJ) January 15, 2003

“Statistical Characterization of Aviation Risk Factors,” **2<sup>nd</sup> Annual FAA Centers of Excellence Symposium** (Wichita, KS) October 21, 2002

“Node-Pair Reliability Calculations in a Shared Mesh Network,” **VPI Systems, Incorporated** (Holmdel, NJ) February 25, 2002

“Estimation of Clock Offset Using Bootstrap Bias-Correction Techniques,” **Department of Mathematics, Trenton College** (Trenton, NJ) October 3, 2001

“A Career in Statistics,” **Mathematics Club, Trenton College** (Trenton, NJ) October 3, 2001

“Reliability Calculations in Large Communication Networks,” **Department of Mathematics, Williams College**, (Williamstown, MA) September 19, 2001

“Analysis of Signal-to-Noise Ratio Estimation for Wireless Communication Systems: Methods and Analysis,” **IBM Watson Research Center** (Yorktown Heights, NY) August 20, 2001

“Bayesian Prediction of Software Failure Rate,” **Department of Statistics, Rutgers University**, (Piscataway, NJ) October 13, 1999

“Bayesian Prediction of Software Failure Rate,” **Department of Industrial Engineering, Rutgers University**, (Piscataway, NJ) September 28, 1999

“Performance Analysis of Switch Access Systems,” **Applied Telecommunication Symposium**, (Boston, MA), April 5, 1998.

“Statistical Characterization of Environmental Risk,” **U.S. Geological Survey Station**, (Reston, VA), August 12, 1994.

“A Model for Circuit Unavailability,” **Northern New Jersey Chapter of the American Statistical Association** (Holmdel NJ), December 8, 1993

“Network Component and T1/T3 Unavailability Models, **National Institute of Standards and Technology**, October 17, 1990

## **OTHER TALKS**

“Understanding the Faculty Job Market,” **UCR Physical Sciences and Engineering Postdoctoral Workshop Series**, October 16, 2025.

“Background, Advice, and a Research Topic,” **Summer 2025 MacREU Cohort at UCR**, July 14, 2025.

“How Artificial Intelligence Can Help Mitigate Bias in Student Evaluations of Teaching,” **UCR Department of Statistics, April 8, 2025**

“A neutral zone classifier for three classes with an application to text mining,” **American Statistical Association Joint Statistical Meetings**, (Portland, Oregon), August 7, 2024 (joint with D. Friel, B. Ellis, Y. Li, H. Lee and P. Kass, presented by Dylan Friel)

“Design and Inference for a RCT when Treatment Observations Follow a Two-Component Mixture Model,” **International Society for Business and Industrial Statistics**, (St. Catharines, Canada), July 14, 2023.

“Design and Inference for a RCT when Treatment Observations Follow a Two-Component Mixture Model,” **International Society for Business and Industrial Statistics**, (St. Catharines, Canada), July 14, 2023.

Mining Text for Bias in Student Evaluations of Teaching, **Advancing Faculty Diversity Spring Convening**, (San Diego, California) April 24, 2023.

A Neutral Zone Classifier for Three Classes, **Southern California Chapter of the American Statistical Association Fall Kick-Off**, December 10, 2022 (Virtual), presented by Dylan Friel.

Integrating Statistics and Data Science Environments in Academic Departments. **National Institute of Statistical Sciences (NISS) Panel Moderator**. Panel: Rachel (Ray) Levy (North Carolina State University), Heike Hofmann (Iowa State University), Funda Gunes (Duke University), Chong Ho (Alex) Yu (Azusa Pacific University), November 30, 2022 (Virtual, 200+ attendees)

Statistical Inference for Method of Moments Estimators of a Semi-Supervised Two-Component Mixture Model, **Orange County Biostatistics Symposium**, October 14, 2022 (Irvine, California), Poster Session presented by Bradley Lubich.

Control Group versus Treatment Group Designs with Mixture Distributions, **Department of Economics Seminar, University of California, Riverside**, April 14, 2022.

Method of Moment Confidence Intervals for a Semi-Supervised Mixture Model (joint with Bradley Lubich and Weixin Yao, presented by B. Lubich) **International Statistical Institute World Statistics Congress** (Virtual) July 13, 2021

A Bayesian Longitudinal Trend Analysis of Count Data with Gaussian Processes, (joint with Samantha VanSchalkwyk, presented by S. VanSchalkwyk) **4<sup>th</sup> International Conference on Econometrics and Statistics** (Virtual) June 25, 2021.

New Challenges in Sample Size Calculations,” **International Society of Business and Industrial Statistics**, Satellite Conference to the World Statistics Congress of the International Statistics Institute, (Virtual), May 4, 2021.

Statistics Debate! **National Institute of Statistical Sciences (NISS) Debate Moderator**. Debate Panel: Deobrah G. Mayo (Virginia Tech), Jim Berger (Duke), and David Trafimow (New Mexico State University), October 15, 2020 (Virtual, 700+ attendees)

Digging Deeper from the Radical to the Reasoned: p-value Alternatives Offered by Experts. **National Institute of Statistical Sciences (NISS) Webinar Moderator**. Guest speakers Jim Berger (Duke), Sander Greenland (UCLA) and Robert Matthews (Aston University), Virtual, November 19, 2019.

What’s in a name – data analytics, machine learning, artificial intelligence, and what else? **National Institute of Statistical Sciences (NISS) Webinar Moderator**. Guest speakers Victor Lo (Fidelity Investments), Hal Stern (UCI), Lee Wilkinson (H2O), and Vincent Granville (Data Science Central), Virtual, September 27, 2019

“Discussion of a Special Issue of The American Statistician: Statistical Inference in the 21st Century: A World Beyond  $p < 0.05$ , Technical Overview of Some of the Alternative Procedures,” **Guest speaker in Webinar for National Institute of Statistical Sciences (NISS)**, May 23, 2019 (700+ attendees)

“Discussion of a Special Issue of The American Statistician, “Statistical Inference in the 21st Century: A World Beyond  $p < 0.05$ ,” **Department of Statistics, University of California, Riverside**, April 23, 2019

“Statistical Modeling and Analysis of Longitudinal Microbiome Data,” UCR Microbiome Initiative 2<sup>nd</sup> Annual Symposium (presented by Samantha VanSchalkwyk), September 25, 2018

“Maximizing the Usefulness of Statistical Classifiers for Two Populations,” **Data Science Seminar Series, University of California, Riverside**, June 1, 2018

“Improving the Accuracy of Classifying Medical Conditions: A Statistical Approach,” **Office of Research Integrity Seminar Series, University of California, Riverside**, April 17, 2018.

“A Two-Stage Classifier with Applications to Prostate Cancer Diagnostics,” **Early Detection Research Networking Group (ERDN) Webex Meeting**, April 12, 2018

“Maximizing the Usefulness of Statistical Classifiers for Two Populations with Illustrative Applications,” **Department of Statistics, University of California, Riverside**, October 4, 2016.

"SPC Methods for Non-stationary Correlated Count Data with Applications to Network Surveillance," (joint with Yingzhuo Fu, presented by **D. Jeske**) **Joint Statistical Meetings of the American Statistical Association** (Boston, MA) August 6, 2014.

"Sequential Neutral Zone Classification," (joint with Hyunyoung Kim, presented by H. Kim) **Joint Statistical Meetings of the American Statistical Association** (Boston, MA) August 5, 2014.

"Sequential Gaussian Classifiers," (joint with Hyunyoung Kim, presented by H. Kim), **ASA Quality and Productivity Research Conference** (Seattle, WA), June 24, 2014

"CUSUM and Shewhart Algorithms for Detecting Translated Gamma Distributions," **Department of Statistics, University of California** (Riverside, CA) April, 2014

"Logistic Regression Classifiers with Longitudinal Data," (joint with X. Zhang, J. Li, V. Wong and B. Noland, presented by **D. Jeske**) **Joint Statistical Meetings of the American Statistical Association** (Montreal, Canada), August 6, 2013

"Prediction Intervals Based on the Best Linear Predictor for Generalized Linear Mixed Models," (joint with Chenghsueh Yang, presented by C. Yang) **Joint Statistical Meetings of the American Statistical Association** (Montreal, Canada), August 4, 2013.

"Sequential Neutral Zone Classification," (joint with Hyunyoung Kim, presented by Hyunyoung Kim), **ASA Quality and Productivity Research Conference** (Niskayuna, NY), June 5, 2013

"Co-clustering Method Using a Generalized Linear Mixed Model," (joint with F. He, presented by F. He), **ASA Quality and Productivity Research Conference** (Niskayuna, NY), June 6, 2013

"Co-clustering Spatial Data using a Generalized Linear Mixed Model with Application to Integrated Pest Management," (joint with Z. Zhang, X. Cui, and M. Hoddle, presented by **D. Jeske**) **Annual Meeting of the Entomology Society of America** (Knoxville, TN), November, 11, 2012.

"Minimum Size Survival Analysis Sampling Plans for Comparing Multiple Treatment Groups to a Single Control Group," (joint with James Flegal and Stephen Spindler, presented by D. Jeske) **Joint Statistical Meetings of the American Statistical Association** (San Diego, CA), July 31, 2012

"Prediction Intervals Based on the Best Linear Predictor for Generalized Linear Mixed Models," (joint with Chenghsueh Yang, presented by C. Yang) **Joint Statistical Meetings of the American Statistical Association** (San Diego, CA), August 2, 2012.

"Cumulative Logistic Regression Models with Ordinal Explanatory Variables," (joint with L. Guo and T. Callanan, presented by L. Guo), **ASA Quality and Productivity Research Conference** (Long Beach, CA) June 5, 2012.

"Co-clustering Spatial Data Using a Generalized Linear Mixed Model with Application to Integrated Pest Management," (joint with Z. Zhang, X. Cui, and M. Hoddle, presented by Z. Zhang), **ASA Quality and Productivity Research Conference** (Long Beach, CA) June 6, 2012.

"New Nonparametric Multivariate CUSUM Control Charts for Location and Scale Changes," (joint with X. Zhang and J. Li, presented by X. Zhang), **ASA Quality and Productivity Research Conference** (Long Beach, CA) June 7, 2012.

"Nonstationary Network Traffic Diagnosis Under Correlation Context," (joint with Yingzhuo Fu, presented by Y. Fu) **Joint Statistical Meetings of the American Statistical Association** (Miami, FL), August 5, 2011

"Nonparametric Sequential Change-Point Procedure for Network Surveillance Data," (joint with Tatev Ambartsoumian, presented by T. Ambartsoumian) **Joint Statistical Meetings of the American Statistical Association** (Miami, FL), August 5, 2011

"Prediction Intervals for Generalized Linear Mixed Models," (joint with Chenghsueh Yang, presented by C. Yang) **Joint Statistical Meetings of the American Statistical Association** (Miami, FL), August 2, 2011

"A New Exponential Goodness-of-Fit Test for Data Subject to Ordinary and Multiply Type II Censoring," (joint with Scott Lesch, presented by D. Jeske) **Joint Statistical Meetings of the American Statistical Association** (Miami, FL), August 6, 2011

"Clustering Spatial Data Using a Generalized Linear Mixed Model (GLMM) with Application to Integrated Pest Management," (joint with Zhanpan Zhang and Xinping Cui, presented by Z. Zhang) **Joint Statistical Meetings of the American Statistical Association** (Miami, FL), August 6, 2011

"Generalized Likelihood Ratio CUSUM based on a Nonparametric Kernel Density Estimation," (joint with T. Ambartsoumian, presented by T. Ambartsoumian), **ASA Quality and Productivity Research Conference** (Roanoke, VA) June 10, 2011.

"Change-point Detection for Correlated Network Data," (joint with Y. Fuo, presented by Y. Fuo), **ASA Quality and Productivity Research Conference** (Roanoke, VA) June 10, 2011.

"Unsupervised Neutral Zone Classification," (joint with S. Benecke, presented by S. Benecke), **ASA Quality and Productivity Research Conference** (Roanoke, VA) June 10, 2011.

"Goodness-of-fit Tests for Generalized Linear Mixed Models," (joint with A. Hansen, presented by A. Hansen), **ASA Quality and Productivity Research Conference** (Roanoke, VA) June 9, 2011.

"Sequential Probability Ratio Test Approach to Nonparametric Cusum," (joint with T. Ambartsoumian, presented by T. Ambartsoumian), **12<sup>th</sup> INFORMS Computing Society Conference** (Monterey, CA) January 10, 2011.

"Change-point Detection for Correlated Network Counts," (joint with Y. Fuo, presented by Y. Fuo) **12<sup>th</sup> INFORMS Computing Society Conference** (Monterey, CA) January 10, 2011.

"Predictions in Generalized Linear Mixed Model," (joint with C. Yang, presented by C. Yang), **Joint Statistical Meetings of the American Statistical Association** (Vancouver, Canada) August 2, 2010.

"Logit-Based Neutral Zone Classification Algorithm with Application to Microbial Community Profiling," (joint with R. Le, presented by R. Le), **Joint Statistical Meetings of the American Statistical Association** (Vancouver, Canada) August 4, 2010.

"Statistics: Careers, Certification, Consulting Collaboratory at UCR, and Internship Opportunities," **1<sup>st</sup> Statistics Café Talk to the UCR Highlander Statistics Society**, May 13, 2010.

"Estimation and Confidence Intervals for Relative Offset Under Correlated Exponential Network Delays," (joint with J. Pettyjohn, presented by J. Pettyjohn), **ASA Quality and Productivity Research Conference** (Yorktown Heights, NY) June 5, 2009.

“Bartlett and Wald Sequential Hypothesis Testing with Correlated Data,” (joint with J. Li, presented by J. Li), **ASA Quality and Productivity Research Conference** (Yorktown Heights, NY) June 5, 2009.

“Performance Analysis of Alternative Combinations of Classification and Clustering Algorithms with Applications to Microbial Community Profiling,” (joint with R. Lee, presented by R. Lee), **ASA Quality and Productivity Research Conference** (Yorktown Heights, NY) June 4, 2009.

“Evaluation of a Hospice Care Referral Program Using Cox Proportional Hazards Model,” (joint with L. Gharibvand and S. Liao, presented by L. Gharibvand), **Western Users of SAS Software Conference** (Universal City, CA) November 5, 2008.

“A Nonparametric Cusum Algorithm for Timeslot Sequences with Applications to Network Surveillance,” (joint with V. Montes de Oca, presented by V. Montes de Oca), **International Society for Statistics in Business and Industry** (Prague, Czech Republic) July 1, 2008.

“Improving the Applications of Sequential Sampling methods to Entomological Problems and Other Areas,” (joint with P. Shah, presented by P. Shah), **ASA Quality and Productivity Research Conference** (Madison, WI) June 5, 2008.

“The Efficiency of Logistic Regression Compared to Normal Discriminant Analysis Under Class-Conditional Classification Noise,” (joint with Y. Bi, presented by Y. Bi), **ASA Quality and Productivity Research Conference** (Madison, WI) June 5, 2008.

“A Three-Class Neutral Zone Classifier Using a Decision-Theoretic Approach With Applications,” (joint with H. Yu, presented by H. Yu), **ASA Quality and Productivity Research Conference** (Madison, WI) June 5, 2008.

“A Nonparametric Cusum Algorithm for Timeslot Sequences with Applications to Network Surveillance,” (joint with V. Montes de Oca, presented by V. Montes de Oca), **ASA Quality and Productivity Research Conference** (Madison, WI) June 6, 2008.

“Advanced Sequential Sampling Methods and Their Implementation Within Portable Computing Environments,” (joint with A. Chakravartty, presented by A. Chakravartty), **Joint Statistical Meetings of the American Statistical Association** (Seattle, WA) August 10, 2006.

“The Effectiveness of Bootstrap Bias Correction With Heavy Tailed Distributions,” **Colloquium for Department of Economics**, University of California (Riverside, CA) June 7, 2006.

“Development of a Synthetic Data Set Generator for Building and Testing Information Discovery Systems,” (presented by P. J. Lin), **3<sup>rd</sup> International Conference on Information Technology** (Las Vegas, NV) April 11, 2006.

“Classification Rules that Include Neutral Zones and their Application to Microbial Community Profiling,” (joint with Z. Liu, E. Bent and J. Borneman) **5<sup>th</sup> Hawaii International Conference on Statistics, Mathematics and Related Fields** (Honolulu, Hawaii) January 19, 2006.

“Generation of Synthetic Data Sets for Evaluating the Accuracy of Information Discovery and Analysis Systems,” **Department of Statistics, University of California at Riverside** (Riverside, CA) December 6, 2005

“An Early Detection Test for the Compatibility of Two Software environments,” (joint with Q. Zhang, UC-Riverside) **49<sup>th</sup> Annual Fall Technical Conference** (St. Louis, MO) October 21, 2005

“Generation of Synthetic Datasets for Evaluating the Accuracy of Knowledge Discovery Systems,” **Eleventh ACM SIGKDD International Conference on Knowledge Discovery and Data Mining** (Chicago, IL) August 22, 2005

“Some New Clock Offset Estimators Using Bootstrap Bias-Correction Techniques,” **Colloquium for Department of Computer Science**, University of California (Riverside, CA) June 6, 2005

“Effectiveness of Bootstrap Bias-Correction in the Context of Clock Offset Estimation,” (joint with A. Chakravarty, UC-Riverside) **12<sup>th</sup> Annual Spring Research Conference on Statistics in Industry and Technology** (Park City, Utah) June 2, 2005

“A Test for the Compatibility of Two Software Usage Environments,” (joint with Q. Zhang, UC-Riverside) **Joint Statistical Meetings of the American Statistical Association** (Toronto, Canada) August 8, 2004

“Tunable Approximations for the Mean and Variance of the Maximum of Heterogeneous Geometrically Distributed Random Variables,” (joint with T. Blessinger, FDA) **Mathematical Methods in Reliability Conference** (Santa Fe, NM) June 23, 2004.

“The Statistical Consulting Collaboratory at UC-Riverside,” **Riverside Chamber of Commerce Meeting** (Riverside, CA) June 11 2004.

“Testing the Equality of LD50 Values in Heterogeneous Bioassay Models,” (joint with T. Blessinger, FDA, P. Jensen and J. Trumble, UC-Riverside), **San Diego Chapter of the American Statistical Association One-Day Conference** (San Diego, CA) February 27, 2004

“Statistical Consulting and its Relation to Applied Research,” **Department of Statistics, University of California at Riverside** (Riverside, CA) January 27, 2004

“Reliability and Capacity Efficiency of Restoration Strategies for Telecommunication Networks,” **4<sup>th</sup> International Conference on the Design of Reliable Communication Networks** (Banff, Canada), Oct 19-23, 2003.

## **CONFERENCES AND WORKSHOPS**

World Statistics Congress of the International Statistical Institute (The Hague, Netherlands) October 5-10, 2025 (invited talk)

International Society for Statistics in Business and Industry (Amsterdam, Netherlands) October 2-3, 2025 (invited talk, organized session, recruited another session organized, chaired a session)

University of California Advancing Faculty Diversity Annual Convening, (Los Angeles, California) April 17-18, 2025.

University of California Advancing Faculty Diversity Annual Convening, (Los Angeles, California) April 17-18, 2025.

European Network for Business and Industrial Statistics (Leuven, Belgium) September 16-18, 2023 (co-organizer of ISBIS Invited Session, Talk in the Invited Session, chair of a contributed session)

Joint Statistical Meetings (Portland, Oregon) (*invited panelist*), August 4, 2024

Growing Inland Achievement / Student Ready Strategies Institutional Policy Workshop, (Riverside, California) May 9, 2024.

University of California Advancing Faculty Diversity Annual Convening, (Davis, California) April 17-18, 2024.

University of California Summit: Best Practices for Climate and Retention to Advance Faculty Diversity (Irvine, California) March 21, 2024

University of California Academic Personnel Academy (Anaheim, California) February 28 – March 1, 2024 (*invited speaker*)

NASA – HELIOS Open – FIU Open Scholarship Leadership Workshop (Miami Beach, Florida) January 11, 2024

NSF STEM Teaching-Focused Faculty Conference (San Diego, California) December 14, 2023.

European Network for Business and Industrial Statistics (Valencia, Spain) September 11, 2023 (*invited talk, chair of ISBIS invited session, chair of a contributed session*)

World Statistics Congress of the International Statistical Institute (Ottawa, Canada) July 15-21, 2023 (*duties of the outgoing President of ISBIS, invited talk*)

International Society for Statistics in Business and Industry (St. Catharines, Canada) July 13-14, 2023 (*duties of the outgoing President of ISBIS, contributed talk*)

35<sup>th</sup> Panhellenic and 1<sup>st</sup> International Statistics Conference (Virtual from Piraeus, Greece), (*invited speaker*) May 28, 2023.

University of California Advancing Faculty Diversity Spring Convening (San Diego, California), (*presented on AFD grant project*) April 24, 2023.

Rethinking Retention, Redefining (Faculty) Diversity, (Virtual from UCR), (*invited panelist*), February 13, 2023.

Southern California Chapter of the American Statistical Association Fall Kick-Off Meeting (Virtual Meeting), December 10, 2022 (Dylan Friel presented our talk on AFD grant.)

ASA Traveling Course (Virtual), An Introduction to Second-generation P-values and Their Use in Statistical Practice. Presented by Jeffrey Blume (University of Virginia) and Megan Murray (Vanderbilt), October 22, 2022.

Orange County Biostatistics Symposium (Irvine, California) (*Invited talk, and Bradley Lubich presented a joint poster*), October 14-15, 2022.

International Society for Statistics in Business and Industry (Naples, Italy) (*Conference co-organizer, Opening Session, Invited Talk*) June 20-21, 2022

Southern California Chapter of the American Statistical Association Fall Kick-Off Meeting (Virtual Meeting), December 11, 2021.

International Conference on Advances in Statistics and Combinatorics (2021, Greensboro, NC, Virtual Conference), (*Invited Plenary Speaker, Session Chair*) October 8-11, 2021.

Joint Statistical meetings (Philadelphia, PA, Virtual Conference), (*Invited Speaker*) August 11, 2021.

International Statistical Institute World Statistics Congress (The Hague, Netherlands Virtual Conference) (Organizer and Chair for two sessions, Speaker at one of the sessions) July 13, 2021

4<sup>th</sup> International Conference on Econometrics and Statistics (Hong Kong, Virtual Conference) (Session Organizer), June 25, 2021.

International Conference on Advanced Statistical Techniques in Business and Industry (Kochi, India, Virtual Conference) (*Invited Talk*), December 28-30, 2020.

Southern California Chapter of the American Statistical Association Fall Kick-Off Meeting (Virtual Meeting), December 12, 2020.

International Conference on Data Analytics for Business and Industry (Bahrain, Virtual Conference) (*Plenary Talk*), October 26-27, 2020

Joint Statistical Meetings (2020, Virtual Conference), (*TAS Editor's Choice invited session organizer and chair*) August 1-6, 2020.

ASA Conference on Statistical Practice (Sacramento, California) (*Panel Session*), February 20-22, 2020.

International Chinese Statistical Association (ICSA) International Conference (Hangzhou, China), (*invited session co-organizer, invited paper*) December 20-22, 2019

ASA Traveling Course, Guidelines for Using State-of-the-Art Methods to Estimate Propensity Score and Inverse Probability of Treatment Weights When Drawing Causal Inferences. Presented by Brian Vehtari (Rand Corporation), November 9, 2019.

International Conference on Statistics – Theory and Applications (Lisbon, Portugal) (*Conference co-chair, invited session organizer and speaker*), August 13-14, 2019

Joint Statistical Meetings (Denver, Colorado) (*Invited talk at NISS luncheon, NISS meetings, COP Meeting, TAS editorial board luncheon, TAS Editor's Choice topic-contributed session organizer and chair*), July 28<sup>th</sup> – 31<sup>st</sup>, 2019

Quality and Productivity Research Conference (Washington DC) (*invited paper*), June 10-13, 2019

Southern California Chapter of the American Statistical Association Fall Kick-Off Meeting (Azusa Pacific University, Azusa, CA), December 1, 2018

City of Hope – UC Riverside Biomedical Research Initiative (CUBRI) Meeting (UCR) October 13, 2018

Model Based Clustering and Classification Workshop (Catania, Italy) (*Invited Talk*) September 5-7, 2018

Interdisciplinary Computing Summer Institute of the Center for Advancing Women in Technology (San Jose State University, San Jose, CA) August 9 – August 10, 2018

Joint Statistical Meetings (Vancouver, Canada) (*Invited talk, NISS meetings, COP Meeting, TAS editorial board luncheon*), July 28 – August 3, 2018

International Symposium on Business and Industrial Statistics 2018 (Piraeus, Greece) (*Session organizer and presenter, ISBIS Executive council meeting, ASMBI Editorial board meeting*), July 4-6, 2018

Quality and Productivity Research Conference (Santa Fe, NM) (*invited paper*), June 11-14, 2018

Conference on Predictive Inference and its Applications (Ames, Iowa) (*plenary speaker*), May 7-8, 2018

Annual Symposium of the Kansas and Western-Missouri Chapter of the American Statistical Association (*keynote speaker*) (Kansas City, Kansas) April 19-20, 2018

Southern California Chapter of the American Statistical Association Fall Kick-Off Meeting (Azusa Pacific University, Azusa, CA), November 18, 2017

ASA Media Training Workshop (Bethesda, MD) October 13, 2017

ASA Symposium on Statistical Inference (Bethesda, MD) October 11-12, 2017

R and Spark: Tools for Data Science Workflows – National Institute of Statistical Sciences Workshop (Riverside, California) (*Local Organizer*) September 30 – October 1<sup>st</sup>, 2017

International Chinese Statistical Association – Canada Chapter (Vancouver, Canada) (*Invited Talk*) August 18-20, 2017

Joint Statistical Meetings (Baltimore, MD) (*Invited Talk, NISS Meetings*) July 30<sup>th</sup> – August 4<sup>th</sup>, 2017

6<sup>th</sup> International Workshop on Sequential Methods (Rouen, France), June 20-23, 2017 (*invited paper*)

Southern California Chapter of the American Statistical Association Fall Kick-Off Meeting (City of Hope, Duarte, CA), November 12, 2016

City of Hope-UC Riverside Biomedical Research Initiative Workshop (Riverside, California) October 15, 2016

60<sup>th</sup> Fall Technical Conference (Minneapolis, MN) (*invited paper of the Journal of Quality Technology Session*), October 6-7, 2016

Joint Statistical Meetings (Chicago, IL) (*ASA Board Meeting and Council of Chapter Meetings*), July 29<sup>th</sup> – August 4<sup>th</sup>, 2016

Quality and Productivity Conference 2016 (Tempe, AZ) (*invited paper and session chair*), June 13-16, 2016

International Society for Business and Industrial Statistics (Barcelona, Spain), (*invited paper and session chair*), June 8-10, 2016

Workshop on Structural Equation Modeling, University of Melbourne, Australia, Feb 1-5, 2016.

Center for Effectiveness and Safety Research Annual Meeting, Kaiser Permanente, Denver, Colorado, October 27-28, 2015

City of Hope-UC Riverside Biomedical Research Initiative Workshop (City of Hope, Duarte, California) October 17, 2015

Structural Equation Modeling Using SAS (Pasadena, CA) Oct. 6-10, 2015

Joint Statistical Meetings (Seattle, WA) (*ASA Board Meeting and Council of Chapter Meetings*), August 6-12, 2015

60th World Statistics Congress (Rio de Janeiro, Brazil) (Session Organizer and Presenter), July 26-31, 2015

ASA Quality and Productivity Conference (Raleigh, NC) (*Invited Talk*) June 10-12, 2015

Orange County Long Beach Chapter of the American Statistical Association, Career Day Event, February 21, 2015, (Cal State University, Long Beach, CA) (*ran a UCR Statistics table*)

Global Big Data Conference (Los Angeles, CA), Sept. 19-21, 2014

Joint Statistical Meetings (Boston, MA) (*organizer of topic contributed session, presenter, ASA Board Meeting and Council of Chapter Meetings*) Aug 2-8, 2014

Applied Analytics Using SAS Enterprise Miner, SAS (Cary, NC), July 15-17, 2014

International Indian Statistical Association Conference, July 11-13, 2014 (*invited paper*)

ASA Quality and Productivity Conference 2014 (Seattle, WA) (*contributed paper and session chair*), June 22-26, 2014

International Society for Business and Industrial Statistics (Durham, NC), 2014 (*invited paper and session chair*)

Hands-on Data Mining Training Workshop, Salford Systems (San Diego, CA), April 25, 2014

Southern California Chapter of the American Statistical Association Career Day Event, February 22, 2014 (Duarte, CA) (*invited talk*).

Orange County Long Beach Chapter of the American Statistical Association, Career Day Event, February 15, 2014, (Cal State University, Long Beach, CA) (*ran a UCR Statistics table*)

Joint Statistical Meetings (Montreal, Canada) (*contributed paper and Council of Chapter Meetings*), August 3-8, 2013

Spring Research Conference on Statistics in Industry and Technology (Los Angeles, CA), (*Invited Talk*), June 20-22, 2013.

ASA Quality and Productivity Research Conference (Niskayuna, NY), (*Invited Talk and Session Chair*), June 4-7, 2013

Joint Mathematical Meetings (San Diego, CA) (*invited paper*), January 9-12, 2013

Entomology Society of America Annual Conference (Knoxville, TN) (*contributed paper*), November 11-14, 2012

Fall Meeting of the Orange County Chapter of ASA (Duarte, CA), December 7, 2012

Fall Meeting of the Southern California Chapter of ASA (Los Angeles, CA) November 14, 2012

Fall Meeting of the Montana Chapter of ASA (Bozeman, MT), September 18, 2012

Joint Statistical Meetings 2012 (San Diego, CA) (*contributed paper, Council of Chapter Meetings*), July 28-Aug2, 2012

International Society for Business and Industrial Statistics (Bangkok, Thailand), 2012 (*invited paper*) , June 17-21, 2012

ASA Quality and Productivity Research Conference (Long Beach, CA), 2012 (*Conference Chair*), June 4-7, 2012

Annual Meeting of the Portland Chapter of ASA (Portland, OR), March 12, 2012

Joint Statistical Meetings 2011 (Miami, FL) (*contributed paper, Council of Chapter Meetings*), July 30-August 4, 2011

ASA Quality and Productivity Research Conference (Roanoke, VA), 2011 (*Session Chair*), June 8-11, 2011

Conference in Honor of D. V. Gokhale (Riverside, CA), 2011 (*Conference Organizer*), April 16, 2011

Southern California Chapter of the American Statistical Association Workshop on Applied Statistics, "Key Multiplicity Issues in Clinical Trails," April 9, 2011.

INFORMS Computing Society Conference (Monterey, CA), 2011 (*invited paper*), January 9-11, 2011

American Mathematical Society Western Section Meeting (Los Angeles, CA) 2010 (*invited paper*), October 9, 2010

Joint Statistical Meetings (Vancouver, Canada) 2010 (*Fellow Award*), July 31-August 5, 2010

International Society for Business and Industrial Statistics (Portoroz, Slovenia), 2010 (*invited paper and Session Chair*) , July 5-9, 2010

ASA Quality and Productivity Research Conference (Gaithersburg, MD), 2010 (*Session Chair*), May 25-27, 2010

ASA Quality and Productivity Research Conference (Yorktown Heights, NY), 2009 (*invited paper, Session Organizer and Session Chair*) June 4-6, 2009

Fall Meeting of the Southern California Chapter of the ASA (Los Angeles, CA), November 15, 2009

UCLA Center for Advancing Longitudinal Drug Abuse Research: Summer Institute on Longitudinal Research (Los Angeles, CA), 2008

Joint Statistical Meetings (Denver, CO) 2008 (*contributed paper and panelist*)

International Society for Business and Industrial Statistics (Prague, Czech Republic), 2008 (*invited paper and Session Chair*)

ASA Quality and Productivity Research Conference (Madison, WI), 2008 (*invited paper, Session Organizer and Chair*)

Symposium on Reliability, Availability and Maintainability (Las Vegas, NV), 2008 (*invited tutorial*)

International Society for Business and Industrial Statistics (Azores, Portugal), 2007 (*invited paper*)

A Conference to Enrich Undergraduate Statistics Education (Riverside, CA), 2007

Western Regional EDUCAUSE Conference (San Francisco, CA), 2007 (*poster session*)

Graduate Women in Science Conference (Chapman University, Orange CA)

Pacific Rim Conference on Dependable Computing (*Riverside, CA*), 2006 (*contributed paper and Conference General Chair*)

Military Conference on Communications (Washington, DC), 2006 (*poster session*)

Southern California Chapter Conference on Undergraduate Research (Occidental College, Los Angeles) 2006 (*3 of my students presented*)

Joint Statistical Meetings (Seattle, WA) 2006 (*contributed paper and panelist*)

International Conference on Mathematical and Statistical Modeling *in Honor of Enrique Castillo* (Ciudad Real, Spain), 2006 (*presented*)

Institute of Industrial Engineering Annual Meeting (Orlando, FL), 2006 (*presented*)

International Conference on Statistics, Mathematics, and Related Fields (Honolulu, Hawaii), 2006 (*presented and served as Session Chair*)

Southern California Chapter Conference on Undergraduate Research (University of California, Riverside) 2005 (*3 of my students presented*)

Fall Technical Statistics Conference (St. Louis, MO), 2005 (*presented*)

Southern California Chapter of American Statistical Association Workshop on Bootstrap Methods and Permutation Tests for Doing and Teaching Statistics (Claremont, CA), 2005

Joint Statistical Meetings Annual Meeting (Minneapolis, MN), 2005 (*panelist*)

SIGKDD Workshop (Chicago, IL), 2005 (*presented*)

Spring Research Conference on Statistics in Industry and Technology (Park City, UT), 2005 (*presented*)

INFORMS Annual Meeting (Denver, CO), 2004 (*presented*)

Joint Statistical Meetings Annual Meeting (Toronto, Canada), 2004 (*presented*)

Mathematical Methods in Reliability Conference (Santa Fe, NM), 2004 (*presented and served as Session Chair*)

Spring Research Conference on Statistics in Industry and Technology (Gaithersburg, MD), 2004 (*presented and served as Session Chair*)

San Diego Chapter of the American Statistical Association One-Day Conference on Current Research and Applications of Statistical Methodology (San Diego, CA), 2004 (*presented*)

Southern California Chapter of the American Statistical Association Workshop on Education (Claremont, CA), 2003 (*presented*)

Army Conference on Applied Statistics (Napa Valley, CA), 2003 (*presented*)

IEEE Conference on Design of Reliable Communication Networks (Banff, Canada), 2003 (*presented*)

ASA Quality and Productivity Research Conference (Yorktown Heights, NY), 2003 (*presented and served as Session Chair*)

2<sup>nd</sup> International Network Conference (Pisa, Italy), 2002 (*presented*)

Joint Statistical Meetings Annual Meeting (New York, NY), 2002

Annual FAA Centers of Excellence Symposium (Wichita, KS), 2002 (*presented*)

11<sup>th</sup> International Symposium on Software Reliability (San Jose, CA), 2000 (*presented*)

Rutgers Industrial Engineering Quality Research Engineer Center Symposium. 2001 (*industry liaison*)

Applied Telecommunication Symposium (Boston, MA), 1998 (*presented*)

American Society for Quality Control Annual Conference (Orlando, FL), 1997 (*presented*)

8<sup>th</sup> International Symposium on Software Reliability (Albuquerque, NM), 1997 (*presented*)

IEEE Sarnoff Symposium on Advances in Wired and Wireless Communications (Trenton, NJ), 1997

7<sup>th</sup> International Symposium on Software Reliability (White Plains, NY), 1996

IEEE Conference on Communications (Seattle, WA), 1995 (*presented and served as Session Chair*)

A Seminar on Spatial Modeling (University of Delaware), 1995

IEEE Global Communications Conference (Chicago, IL), 1992 (*presented*)

Joint Statistical Meetings Annual Meeting (Boston, MA), 1992 (*presented*)  
SAS Users Group International Conference (New Orleans, LA), 1991 (*presented*)  
IEEE Conference on Communications (Atlanta, GA), 1990  
SAS Users Group International Conference (San Francisco, CA), 1989 (*presented*)  
Annual Conference on Applied Statistics (Atlantic City, NJ), 1989  
Annual Conference on Applied Statistics (Atlantic City, NJ), 1988  
IEEE Conference on Communications (New Orleans, LA), 1987  
Joint Statistical Meetings Annual Conference, (Chicago, IL), 1986 (*presented*)  
Joint Statistical Meetings Annual Conference, (Toronto, Canada), 1984

## **HONORS**

International Society for Business and Industrial Statistics Outstanding Service Award, 2025  
American Statistical Association Outstanding Chapter Service Award, 2020  
Keynote Speaker of the Annual Symposium of the Kansas City Chapter of the American Statistical Association, 2018  
Keynote Speaker of Fall Meeting of the Montana Chapter of the American Statistical Association, 2012  
Elected Member of the International Statistical Institute, 2011.  
Elected Fellow of the American Statistical Association, 2010.  
The Frank Wilcoxon Prize, for The Best Practical Application Paper in Technometrics, 2003.  
Bell Labs President's Award, for contributions to the reliable design of 3<sup>rd</sup> generation wireless networks, 2002  
Lucent Technologies Software Symposium Award, for an outstanding talk and valued planning contributions, 2000  
Lucent Wireless Technologies Certificate of Appreciation, for advancing the reliability of wireless systems, 1999  
ISSRE Conference Best Paper Award, 1997  
AT&T Salute Award, for dedication to customers, high standards of integrity and teamwork, 1995  
Bell Laboratories Appointment to Distinguished Member of Technical Staff, 1992

SUGI Conference Paper Honorable Mention, 1991

Bell Laboratories Quality in Systems Engineering Award, for contributions to a PQMI quality team, 1991

Iowa State University Doctoral Research Award, 1985

George Snedecor Award, for outstanding Ph.D. Candidate at Iowa State University, 1983

Mathematics Award, for most outstanding graduating mathematics student at Austin Peay State University, 1980