Sam Behseta Curriculum Vitae

Department of Mathematics
California State University Fullerton
Work Phone: (657) 278-8560
email: sbehseta@fullerton.edu
webpage: http://www.fullerton.edu/math/faculty/behseta/index.php

Education:

2003 Ph.D.- Statistics, Carnegie Mellon University, Pittsburgh, Pennsylvania

1999 M.S. - Statistics, San Diego State University, San Diego, California

1992 B.S. - Statistics, National University, Tehran, Iran

Doctoral Thesis:

2003 Bayesian Multiple Curve Fitting in the Analysis of Neuronal Data
Completed under the supervision of Professor Robert E. Kass (National Academy of Sciences).

Professional Experience:

2016- Director of the Center for Computational and Applied Mathematics (CCAM), California State University at Fullerton

2011- Professor of Mathematics at California State University at Fullerton

2008-2011 Associate Professor of Mathematics at California State University at Fullerton

2007-2008 Associate Professor of Mathematics at California State University at Bakersfield

2003-2007 Assistant Professor of Mathematics at California State University at Bakersfield

Editorial Work:

2014- Advisory Editor for *CHANCE*.

2014-2017 Associate Editor for *Journal of American Statistical Association* (JASA) and *The American Statistician*.

2011-2014 Executive Editor of *CHANCE*.

2011-2014 Member of Committee on Publications (COP), American Statistical Association.

2009-2011 Associate Editor for *The Journal of Statistical Computation and Simulation*

Honors and Awards:

2022 Outstanding Professor, CSUF. New Coverage 1 News Coverage 2 News Coverage 3News Coverage 4

2017 Fellow of the American Statistical Association. News Coverage

2014 CSUF: Outstanding Research Award College of Natural Sciences and Mathematics.

2014 CSUF: Outstanding Teaching Award (University-wide faculty recognition).

2012 CSUF. Senior faculty research award: 3 units release time and $3107.

2011 CSUF. Nominated by the Mathematics Department in the 2010/2011 CNSM Outstanding Research category.

2011 CSUF. Incentive Intramural Research Award ($9501).

2010 CSUF. Nominated by the Mathematics Department in the 2009/2010 CNSM Outstanding Research category.

2010 CSUF. Junior/Senior/General faculty research award.

2009 CSUF. Incentive Grant Proposal Award.

2007 Two year early tenure and promotion to Associate Professor, CSUB.

2006 California State University at Bakersfield: Funding for 5 WTUs of Assigned time for the Spring Quarter 2006.

2005 California State University at Bakersfield: Funding for 5 WTUs of Assigned time for the Spring Quarter 2005.

2004 California State University at Bakersfield: Funding from Faculty Teaching and Learning Center (TLC)for Purchasing Books.

2004 California State University at Bakersfield: Funding for 5 WTUs of Assigned time for the Spring Quarter 2004.

2003 California State University at Bakersfield: Funding for 5 WTUs of Assigned time for the Spring Quarter 2004.

2001-2003 Fellowship: IGERT, Center for the Neural Basis of Cognition (CNBC), National Science Foundation

2002 IMS Funding: travel award to present a work in the 5th IMS Mini-meeting on Functional Data Analysis at Gainesville, Florida

External Funding:

2023 California Learning Lab. PI: Jaynes, Co-PIs: Behseta and Shahbaba, PIPE-LINE: Programs for Institutional Pathway Engagement - acceLerating INfrastructure and Education, 07/2023-06/2027, $1.3 million.

2023 NIH. PI: Archana McEligot, co-Investigators: Sam Behseta, Sinjini Mitra, Neurocognitive Aging and Analytics Research Edication (NAARE). Total Amount: $405,000.

2021 NSF Award Number: 2123380. PIs: Sam Behseta, Babak Shahbaba, Alma Castro. co-PIs: Jessica Jaynes, Robert Playo, Mine Dogucu. Collaborative Research: HDR DSC: Data Science Training and Practices: Preparing a Diverse Workforce via Academic and Industrial Partnership. Total Amount: $1.2 million. News Coverage

2021 Department of Defense: W911NF-21-1-0266. PI: Sam Behseta, co-PI's: Andrew Petit and Willie Peng, A Next Generation High-Performance Computing Cluster for Research and Teaching at a Primarily Undergraduate Hispanic Serving Institution. Total Amount: $583,900. News Coverage

2021 NIH. PI: Archana McEligot, co-Investigators: Sam Behseta, Math Cuajungco, Sinjini Mitra, Neurocognitive Aging and Analytics Research Edication (NAARE). Total Amount: 1,833,080.

2015 NIH Award Number: R25 MD010397-01 (PI:Archana McEligot), Big Data Discovery and Diversity through Research Education Advancement and Partnerships (BD3-REAP). Co PIs: Sam Behseta, Math Cuajuagnco, NSF Organization: Division of Research on Learning in Formal and Informal Settings (DRL). Total Amount: $1,021,329.00.

2013 NSF Award Number: 1321339 (PI: Mark Ellis),Transforming Academic and Cultural Identidad through Biliteracy, Co-PIs: Sam Behseta, Armando Martinez-Cruz, Natalie Tran, and Michael Matsuda, NSF Organization: Division of Research on Learning in Formal and Informal Settings (DRL). Total Amount: $1,462,069.00.

Large-Scale CSUF Funding:

2023 Scott Jewett Award in Social Justice. PI: Sam Behseta, co-PIs: Petit and Willie Peng. Expanding CSUF Student Access to Research Experiences Through Computation and Big Data. Total Amount: $100,000

2014 Promising Practices Introductory Statistics Course Redesign (proposed by **Sam Behseta** and Mori Jamshidian). Total Amount: $70,516.00.

Selected Peer-Reviewed Publications:

2023 Behseta S., Kass R.E., A Conversation with Stephen M. Stigler, *Statistic Sci.*, Advance Publication, pages 1 - 17, https://doi.org/10.1214/22-STS878.

2023 Behseta S., An Interview with Hal Stern—From Academics to Administration, *CHANCE*, 35:4, 18-26.

2023 Rai, Kshama Ekanath, Han Yin, Arnie Lynn C. Bengo, Madison Cheek, Robert Courville, Elnaz Bagheri, Reza Ramezan, Sam Behseta, and Parvin Shahrestani. "Immune defense in Drosophila melanogaster depends on diet, sex and mating status." bioRxiv (2022): 2022-05.

2022 Behseta S., Ichinose C.L., and Drew D.L., A call for more graduate programs in statistics education, *Amstat News*, 539, p. 16.

2022 Nguyen, T.M.; Pham, K.D.; Nguyen, J.; Chen, G.; Lee, C.H.; Behseta, S. A Review of SATis5: Perspectives on Commercial and Defense 5G SATCOM Integration.*Encyclopedia* (August 2022), 2, 1296-1321.

2022 David E. Drew, Sam Behseta and Cherie L. Ichinose, An Urgent Plea for More Graduate Programs in Statistics Education, *Journal of Humanistic Mathematics*, Volume 12 Issue 1 (January 2022), pages 422-427.

2020 Behseta S., and Dunn M., Meet Cynthia Rudin A Champion of Interpretable Machine Learning, *CHANCE*, **33**, 2, 4-6.

2019 Behseta S. A Conversation with Robert E. Kass, *Statistical Science*, 34:2, 334-348.

2018 McEligot A.J., Cuajungco M.P., Behseta S., Chandler L., Chauhan H., Mitra S., Rusmevichientong P., and Charles S., Big Data Science Training Program at a Minority Serving Institution: Processes and Initial Outcomes, *California Journal of Health Promotion*, Vol 16, 1, 1-5.

2016 Zhou B., Moorman D., Behseta, S., Ombao H., and Shahbaba B. A Dynamic Bayesian Model for Characterizing Cross Neuronal Interaction During Decision Making, *Journal of the American Statistical Association*, **111**, 514, 459-471.

2015 Tran N., Behseta S., Ellis M., Martinez-Cruz A., Contreras J. The Effects of Spanish English Dual Language Immersion on Student Achievement in Science and Mathematics, *eJournal of Education Policy*, June 2015, 55-77.

2015 Behseta S. Dunn M. A Peek Into MoMath, Interview with Glen Whitney, *CHANCE*, 28:1, 32-39.

2015 Behseta S. Interview with Howard Wainer, *CHANCE*, 28:1, 12-21.

2014 Shahbaba B., Zhou B., Ombao H., Moorman D.E., Behseta S. A Semiparametric Bayesian Model for Neural Coding, *Neural Computation.* **26**, No. 9, 2025-2051.

2014 Behseta S. and Cetinkaya-Rundel M. Interview with Jim Berger, *CHANCE*, 27:2, 39-43.

2013 Behseta S. and Slavkovic S. Interview With Steve Fienberg,*CHANCE*, 26:4, 18-30.

2013 Behseta S. and Dunn M. Discussing Principles of Uncertainty with Jay Kadane,*CHANCE*, 26:2, 24-28.

2012 Robert C., Behseta S. Interview With Persi Diaconis,*CHANCE*, Vol 25, 4, 21-26.

2012 CHANCE Editors (S. Behseta, M.Larsen, C.Robert, and M.Dunn). Sharon Bertsch McGrayne Answers Questions About "The Theory That Would Not Die", *CHANCE*, Vol 25, 1, 24-28.

2012 Kottas, T., Behseta S., Moorman, D.E., Poynor, V., and Olson, C.R. Bayesian Nonparametric Analysis of Multiple Neuronal Intensity Rates. *Journal of Neuroscience Methods*, **203**, 241-253.

2011 Behseta S., Chenouri S. Comparison of two population curves with an application in neuronal data analysis. *Statistics in Medicine*, **30**, 1441-1454.

2011 McMillen T., Simen P., and Behseta S. Hebbian learning in linear-nonlinear networks with tuning curves leads to near-optimal, multi-alternative decision making. *Neural Networks*, **24**, 5, 417-426.

2010 Kottas, A., and Behseta, S. Bayesian Nonparametric Modeling for Comparison of Single-Neuron Firing Intensities, *Biometrics*, **66**, 277-286.

2010 McMillen, T., and Behseta, S. On the Effects of Signal Acuity in a Multi-Alternative Model of Decision Making, *Neural Computation*, **22**, 539-580.

2009 Behseta, S., Berdyyeva, T., Olson, C., and Kass, R.E. Bayesian Correction for Attenuation of Correlation in Multi-Trial Spike Count Data, *Journal of Neurophysiology*, **101**: 2186-2193.

2009 Behseta, S., Lam C., Sutton, J., and Webb, R.L. A Time-Series Intra-Video Collusion Attack on Frame-by-Frame Video Watermarking, *Lecture Notes in Computer Science*, **5450**: 31-44.

2008 Behseta, S., Lam, C., and Webb, R.L. A Bootstrap Attack on Digital Watermarks in the Frequency Domain, *Lecture Notes in Computer Science*, **5308**: 361-375.

2007 Behseta, S., Kass, R.E., Moorman, D.E., and Olson, C.R. Testing Equality of Several Functions: Analysis of Single-Unit Firing Rate Curves Across Multiple Experimental Conditions, *Statistics in Medicine*, **26**, 21: 3958-3975.

2007 Talamantes, J., Behseta, S., and Zender, C.S. Climate and Coccidioidomycosis incidence fluctuations in Kern County, California: A Review, *Ann. N.Y. Acad. Sci, doi: 10.1196/annals.1406.028.*

2007 Talamantes, J., Behseta, S., and Zender, C.S. Statistical Modeling of Valley Fever Data in Kern County, *International Journal of Biometeorology*, **51**:307-313.

2005 Behseta, S. and Kass, R.E. Testing Equality of Two Functions Using BARS, *Statistics in Medicine*, **24**:3523-3534.

2005 Behseta, S., Wallstrom, G.L., Kass, R.E. Hierarchical Models for Assessing Variability Among Functions, September 2003, *Biometrika*, **92**: 419-434.

Book Chapter:

2015 Shahbaba B., Behseta S., and Vandenberg-Rodes A., Neuronal Spike Train Analysis Using Gaussian Process Models, in *Nonparametric Bayesian Inference in Biostatistics, Frontiers in Probability and the Statistical Sciences* , editors: Mitra, Riten and Müller, Peter, 271-285.

Refereed Conference Paper:

2010 Simen P., McMillen T., Behseta S. Hebbian Learning for deciding optimally among many alternatives. *Proceedings of the 32nd Annual Meeting of the Cognitive Science Society Portland, Oregon*: 1816-1821.

Published Commentary:

2012 Behseta.S. Coexistence between humanities and natural sciences under the dialectical approach, *BBC Persian*, October 2012.

2011 Behseta, S., There is no freedom without noise – and no stability without volatility, *Statistics Forum*, May 20, 2011.

Textbook Under Preparation:

2023 Behseta S., Ombao H., Pinto MA. *A Gentle Introduction to Statistical Methods for Analyzing Brain Signals.*, Chapman and Hall, New York.

2022 Behseta S., Shahbaba B., Fahim A. *Bayesian Data Science*, Chapman and Hall, New York.

Publications With Undergraduates:

2021 Gwendolyn Lind, Caleb Pena, and Seth Arreola, Statistical Modeling for Discovery: How Movements Within Counties Affect the Spread of the COVID-19 Pandemic, *Dimensions*, 22:81-94.

2021 Maria D. Diaz, Brandon Tomich, and Juan Cabrera, Applying Machine Learning Methods in Solid State Chemistry: Classification and Prediction of Perovskites, *Dimensions*, 22: 94-102.

2019 Benitez, N., Han Y., Longevity and immune defense, evolutionary trade-offs in Dorsophila melangaster, *Dimensions*, 21: 90-99.

2018 Farnoudi, N., Narvasa, C., Riddle, M., Orozco, S., Gonzalez, Relaxed selection of experimentally-evolved Drosophila shows transient evolutionary trade-offs. Dimensions 20: 41- 47.

2015 Dominguez M, Venegas S. The Impact of Modality Pertaining to Gender and Mathematics Self-Related Beliefs in a High-School Setting, *Dimensions, The Journal of Undergraduate Research in Natural Sciences and Mathematics, CSU Fullerton.* **17**, 94-101.

2014 Robertson D, Park S., Deeb S. A Statistical Analysis of Orange County K6-12 Mathematics Achievement Data, *Dimensions, The Journal of Undergraduate Research in Natural Sciences and Mathematics, CSU Fullerton.* **16**, 80-90.

2013 Galvez R., Ngo D., Kassab, A. A Multivariate Statistical Inference for the Analysis of Neuronal Spiking Rates. *Dimensions, The Journal of Undergraduate Research in Natural Sciences and Mathematics, CSU Fullerton.*, **15**, 90-94.

2013 Chang J. Robust Statistical Modeling of Neuronal Intensity Rates. *Dimensions*, **15**, 75-82.

2012 Popov M. Assessing Uncertainty of Clustered Neuronal Intensity Curves. *to appear in Dimensions, The Journal of Undergraduate Research in Natural Sciences and Mathematics, CSU Fullerton.*

2011 Popov M., Rock D., Ying V. A comparative study of divergence metrics in the analysis of neuronal data. *Dimensions*, **13**, 124-136.

2010 Puentte S., A resampling approach for the comparison of two random curves with an application in neuronal data analysis. *Dimensions*, Vol 12, 81-87.

Unpublished Manuscript:

2007 Clegg, M.T., and Behseta, S., Opposing Equity Risk Premium Relations: An Application of Bayesian Model-Based Clustering.

Other Significant Research in Progress:

2021- Bichara D., and Behseta S. Characterization of the interplay between mobility restrictions and behavioral changes in controlling the spread of COVID-19. News Coverage

2021- Behseta S., Lind G., and Arreola S. Coronavirus and Social Justice. News Coverage

Highlights From Other Grant Writing Activities:

2020 PI: Noyce Track 4: STEM teacher retention and effectiveness: analysis and modeling success for NOYCE (STREAMS 4 NOYCE), under review by NSF.

2020 PI: A next generation high-performance computing cluster for research and teaching at a primarily undergraduate Hispanic serving institution, under review by the Department of Defense.

2020 co-PI: Characterization of the interplay between mobility restrictions and behavioral changes in controlling the spread of COVID-19, under review by Cisco, Inc.

2014 (co-PI): Collaborative Research: Impact of Acute and Chronic Cocaine on Large-scale Neural Population Dynamics During Decision-Making, submitted to NSF.

2013 PI: Collaborative Research: Statistical Models for Neuronal Connectivity in Decision Making, submitted to NSF.

2012 PI: Collaborative Research: Statistical Models of Large-Scale Neuronal Networks with Application to Identifying Dynamic Synchrony in Prefrontal Cortex during Risky Decision-Making, submitted to NSF.

2012 PI: Collaborative Research: An interdisciplinary approach to the ecology of Coccidioides immitis and to the transmission and control of coccidioidomycosis, submitted to NSF.

2009 PI: Learning rules in a stochastic neural network model of multi-alternative decision making, submitted to NSF.

2009 PI: FRG: Collaborative Research: Bayesian Nonparametric Point Processes: New Methods and Applications to Extreme Value Analysis and Modeling of Neuronal Data, submtted to NSF.

2009 PI: Collaborative research: An interdisciplinary approach incorporating the ecology of the pathogen Coccidioides immitis into the statistical analysis of outbreaks of coccidiodomycosis, submitted to NSF.

Refereeing:

Science, Journal of American Statistical Association, Neural Computation, The American statistician, Bayesian Analysis, Statistics in Medicine, The American Naturalist, Multiple IEEE Journals, Statistica Sinica, Journal of Computational Neuroscience, Biostatistics, Journal of Applied Statistics

Selected Presentations:

2022 Invited Talk: Statistical Thinking and Big Data Explorations, California State University, Nov, 2022

2018 Invited Talk: Behseta, Statistics and Machine Learning: Common Goals, Practices, and Interactions, University of Tskuba, Japan, June, 2018.

2018 Invited Talk: Behseta S.and Poynor V., Statistics for Big Data Analysis, California State University, Fullerton, April, 2018.

2018 Invited Talk: Behseta, Undergraduate Research Experiences: Insights, Challenges, and Future Roadmap, UC Irvine, January, 2018.

2018 Invited Talk: Behseta., Bayesian Analysis of Neuronal Data, Joint Mathematical Meetings, San Diego, CA, January, 2018.

2017 Invited Talk: Behseta., On Data Analytics Challenges in Neuronal Signals (spike train, LFP), UC Irvine, February, 2017.

2017 Invited Talk: Behseta., On the Bayesian Modeling of Neuronal Spike Train Data, UC Irvine, January, 2017.

2016 JSM Roundtable Creating a Course on Statistical Learning, Joint Statistical Meetings, Chicago, August, 2016.

2016 Invited Talk: Behseta., Bayesian Analysis of Neuronal Spike Train Data, University of San Diego, January, 2016.

2014 Invited Talk: Behseta S., A Semiparametric Bayesian Model for Detecting Multiway Synchrony Among Neurons, Statistical Society of Canada, Toronto, Ontario, May 28 2014.

2013 Invited Talk: Behseta S., Statistical Analysis of Spike Train Data, Department of Statistics, UC Irvine, Irvine, CA, November 15th, 2013.

2013 Invited Talk: Behseta S., Bayesian Analysis of Neuronal Multiple Neuronal Spike Trains, Statistical Society of Canada, Edmonton, Alberta, May 2013.

2013 Behseta S., Zhou B., Shahbaba B., Moorman D., and Ombao H. A Bayesian model for neural coding, Society for Neuroscience Meetings, San Diego, CA, November 12, 2013.

2012 **Invited Talk**: Behseta S., Bayesian Nonparametric Analysis of Neuronal Intensity Rates, Joint Statistical Meetings , San Diego, California, August 2012.

2012 **Invited Talk**: Behseta S., A Bayesian Comparative Analysis of Neuronal Point Processes, The 29th Quality and Productivity Research Conference , Long Beach, California, June 2012.

2011 **Invited Talk**: Behseta S., Bayesian Analysis of Neuronal Data, San Diego State University, October 2011.

2011 Behseta S., Jamshidian M., A primer of mathematical writing: editor's column, Moderated by Dr. Bogdan Suceava, CSU Fullerton, September 2011.

2010 Behseta S., Chenouri S., Comparison of Two Populations of Curves at the *73rd Annual Meeting of The Institute of Mathematical Statistics (IMS)*, Gothenburg, Sweden, August 2010.

2009 Behseta, S., Kass, R.E., Multiple Curve Fitting with BARS at the *Bayesian Nonparametric Methods for Time Series and Functional Data* Session, Joint Statistical Meetings, Washington D.C., August 2009.

2009 **Invited Talk**: Behseta, S., Kass, R.E., Bayesian Multiple Curve-Fitting, Invited talk at *University of California at Riverside*, April 2009.

2008 Behseta, S., Lam C., Sutton, J., and Webb, R.L, A Time Series Intra-Video Collusion Attack on Frame-by-Frame Video Watermarking, 7th International Workshop on Digital Watermarking, Busan, Korea, November 2008.

2008 Behseta, S., Lam, C., and Webb, R., A Bootstrap Attack on Digital Watermarks in the Frequency Domain, 10th International Conference on Information and Communications Security, Birmingham, UK, October, 2008.

2008 Behseta, S., Lam, C., and Webb, R.,Probabilistic Watermark Detection in Movies,*Nonparametric Identification of Densities, Features, Mixtures, Shapes, and Images* Session at the Joint Statistical Meetings, Salt Lake City, Denver, August 2008.

2007 **Invited Talk**: Behseta, S., Kass, R.E., Bayesian Multiple Curve-Fitting, Invited talk at *University of California at Irvine*, November 2007.

2007 Behseta, S., Kass, R.E., Testing Equality of Several Functions, Presented at the *Bayesian Approaches in Machine Learning and Model Selection* Session at the Joint Statistical Meetings, Salt Lake City, Utah, August.

2006 Behseta, S., Kass, R.E., Statistical Analysis of Single-Unit Firing-rate: Testing Equality of Several Functions, Presented at Joint Statistical Meetings, Seattle, Washington, August 8-12.

2006 Behseta, S., Kass, R.E., Bayesian Multiple Curve-Fitting with BARS, Presented at the Ninth Meeting of New Researchers in Statistics and Probability, Seattle, Washington.

2005 Behseta, S., Kass, R.E., Testing Equality of Two Functions Using BARS, Presented at Joint Statistical Meetings, Minneapolis, Minnesota, August 8-12.

2005 **Invited Talk**: Multiple curve-fitting with BARS, Presented at Applied Mathematics and Statistics Department at University of California at Santa Cruz.

2005 Bayesian Computation with Applications in Neuroscience, Presented at Mathematics Department, CSUB.

2004 Behseta, S., Wallstrom, G.L., Kass, R.E., Hierarchical Models for Assessing Variability Among Functions Presented at Joint Statistical Meetings, Toronto, Canada, August 7-12.

2004 Bayesian Statistics: Fundamentals and Some Recent Advancements, Presented at Mathematics Department, CSUB.

2003 Behseta, S., Kass, R.E., Bayesian multiple curve-fitting in the analysis of neuronal data, Presented at IGERT research symposium at Carnegie Mellon University, June 27-29.

2003 Behseta, S., and Kass, R .E., Statistical correlation analysis of M1 neurons and arm muscles, p resented at the 5th annual Functional Data Analysis conference at the University of Florida, January 11-12.

2002 Behseta, S., Y. Matsuzaka, N. Picard, R.E. Kass, P.L. Strick. Muscle-like activity of M1 neurons during multi-joint movements, Program No. 61.13. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.

2001 Behseta, S., Kass, R.E., Bayes factors for testing equality of neuronal firing intensity functions, presented at the CASE STUDIES IN BAYESIAN STATISTICS WORKSHOP 6 - 2001, Carnegie Mellon University, Pittsburgh, PA.

2000 Holt, L. L., Ventura, V., Rhode, W. R., Behseta, S., and Rinaldo, A., Context-dependent neural coding in the chinchilla cochlear nucleus, presented at 140th meeting of the Acoustical Society of America, December 4-8.

Selected Conference Attendance:

2020 Virtual Joint Mathematical Meetings, August 2-6.

2018 Joint Mathematical Meetings, San Diego, California, January.

2016 Joint Statistical Meetings, Chicago, Illinois, August.

2016 Biocom Big Data Executive Summit, San Diego, California, May 2016.

2013 Society for Neuroscience, 40th Annual Meeting, San Diego, California, November 13-17.

2013 Joint Statistical Meetings, Montreal, Canada, August.

2012 Joint Statistical Meetings, San Diego, California, August.

2011 Joint Statistical Meetings, Miamil, Florida, August.

2010 Fifth International Workshop Statistical Analysis of Neuronal Data, Pittsburgh, Pennsylvania.

2010 Join Annual Mathematics Meetings, San Francisco, California, January 13-16.

2008 Fourth International Workshop Statistical Analysis of Neuronal Data, Pittsburgh, PA. Third Workshop Statistical Analysis of Neuronal Data.

2006 Third International Workshop Statistical Analysis of Neuronal Data, Pittsburgh, PA. Third Workshop Statistical Analysis of Neuronal Data.

2005 Case Studies in Bayesian Statistics, Workshop 8, September 16-17, Carnegie Mellon University Pittsburgh, PA.

2003 Case Studies in Bayesian Statistics Workshop 7, September 12-13, Carnegie Mellon University Pittsburgh, PA.

Service to Academia, Data Science Discipline, and Community:

2023 PIPE-LINE program: Co-organizing and Co-directing Multiple Workshops on the Pedagogy of Data Science Learning and Teaching

2023 CSUF: Selected as a member of the Campus-wide Data Science Initiative Committee

2022 SoCal Data Science Program: Creating Interdisciplinary Data Science Training and Research Program. News Coverage

2020 CCAM CSUF: Preparing the Next Generation of Data Scientists News Coverage

2020 CSUF: Elected member and Elected Chair of the Mathematics Department's Personnel Committee (DPC).

2019 American Statistical Association: Chair of the search committee for the editor of CHANCE.

2018 CSUF: Elected member of the search committee for the Statistics Tenure-track position, Department of Mathematics.

2017 CSUF: Member of the search committee for Associate Vice President for Academic Operations.

2017 CSUF: Elected as a member of the search committee on Statistics Full Time Lecturer, Department of Mathematics.

2016 CSUF: Elected member of the Department Personnel Committee (DPC), Department of Mathematics.

2016 2016 JSM Mentoring Program: Mentor for Whitney Zimmerman (Penn State Univeristy), and Christina Knudson (Macalester College, MN).

2015 American Statistical Association: Chair of the search committee for the editor of CHANCE.

2015 CSUF: Chair of the Statistics Graduate Committee.

2015 CSUF: Member of the College of Natural Sciences and Mathematics Faculty Awards Committee.

2014 Math Alliance predoctoral and doctoral mentor:
$http://mathalliance.org/?mentor = sam - behseta$

2014 CSUF: Chair of the Curriculum Committee, Department of Mathematics.

2014 CSUF: Elected member of the Department Personnel Committee (DPC), Department of Mathematics.

2012 Cofounder and Co-director of CSUF and UCI Statistical and Computational Research in Neuroscience Team.

2012 Cofounder and Co-director of CSUF and UCI Quantitative Education Study Team (QUEST).

2012 Joint Statistical Meetings: Organizer and Chair of the Panel: Rise and Fall of Value-Added Models for Teacher Evaluations, San Diego, California.

2009 Joint Statistical Meetings: Organizer of a Topic Contributed session: Bayesian Nonparametric Methods for Time Series and Functional Data, Washington D.C.

2009-2015 CSUF: Member of the Search committee for positions in Statistics (4 times), Applied Mathematics, and Mathematics Education.

2009 CSUF: Health Professions Committee (school-wide).

2008 CSUF: Organizer of Statistics Seminars.

2008 Joint Statistical Meetings: Chair, Student Success in K–12 and Beyond Session, Denver, Colorado.

2007 CSUB: Elected member of the university senate for the second time.

2006 CSUB: Member of the Academic Affairs Committee.

2005 CSUB: Elected member of the university senate, member of the university-wide election committee, and member of the academic support and student services committee.

2005 CSUB: Director of the mathematics tutoring center.

2004 CSUB, Mathematics department: Statistics coordinator.

Highlights From Mentoring Students:

1 Nikki Armstrong, graduated with a Masters degree from the mathematics department, UC Berkeley

2 Elizabeth Pacheco, graduated with a Masters degree from the statistics department, UC Santa Cruz

3 Juancarlos Laguardia, Masters degree from the statistics department, UC Santa Cruz

4 Francisco Beltran, PhD from UC Santa Cruz.

5 **Valerie Poynor, PhD from UC Santa Cruz. Currently: Associate Professor of Mathematics at CSUF.**

6 Jose Fuentes, graduated with a Masters degree from the mathematics and statistics department, San Diego State University.

7 Jose Ochoa, graduated with a masters degree in statistics from UC Santa Barbara.

8 Robert Webb, graduated with a Masters degree from the mathematics department at Calpoly San Luis Obispo

9 Max Velado, Masters degree from SDSU. Currently an adjunct instructor at SDSU

10 Christopher Gutierrez, graduated with a PhD from the Purdue's computer science department

11 Joseph Sutton, graduated with a masters degree in computer science department, USC

12 Kevin Velado, graduated with a computer science degree from CSUB.

13 Alma Catro, graduated with a mathematics degree from CSUB. Currently: Assistant Professor of Mathematics at Cypress College.

14 Suzette Puente, currently a PhD student at UC Berkley

15 Samantha Crane, Masters degree from UCSC

16 Mikhail Popov Masters degree from Carnegie Mellon University.

17 Benito Lopez, graduate student at the of University of North Carolina

18 Victor Ying , Masters degree from UCLA

19 Xiaojun Zuo, currently at Mathematics department, CSUF

20 David Rock, Masters degree from SDSU

21 Zheng Lu, Masters degree from the University of Boston

22 Jenny Chang, graduate students at Australia

23 Reina Galvez, graduated from the Statistics program at CSUF

24 Duy Ngo, graduated from the mathematics program at CSUF. Received his PhD in statistics from UC Irvine. Currently: Assistant Professor of Statistics at Western Michigan University.

25 Nathan Robertson, current PhD student at UC Riverside.

26 Soeun Park, current graduate student at CSUF

27 Antouneo Kassab, masters degree in statistics from CSUF. Currently a Data Scientist at Amazon

28 Susan Deeb, masters student in Applied Mathematics at SDSU

29 Kip Hurwitz, graduated with a Masters degree in Statistics. Data Scientist at the State Department

30 Judith Victoria, graduated with a Masters degree in Statistics.

31 Mirna Dominguez, graduated with a Masters degree in Statistics

32 Erick Venegas, graduate student at CSUF

33 Daniel James, graduated from the Statistics program

34 Quynh Thi Ho, graduate student at CSUF

35 Han Yin, graduate student at CSUF, current member of my group

36 Silvia Orzoco, graduate student at the University of Chicago

37 Stephen Gonzales, graduate student at the University of Southern California

38 Noorolhoda Sadeghi, graduate student of neuroimaging at USC

39 Foon Hoe Wong, data scientist at Mazda, USA

40 Nayelie Benitez, researcher at Cidar-Sinai, a graduate student at UCLA

41 Maria Diaz, current member of my group

42 Juan Cabrera, current member of my group

43 Brandon Tomich, current member of my group

44 Caleb Pena, current member of my group

45 Chanel Lee, PhD Student at Rice University

46 Gwendylon Lind, Currently: Data Sciencetist at S.A.R.A.

47 Jasmine Villanueva, current member of my group

48 Minghui Xi, current member of my group

49 Vivi Ngo, current member of my group

50 Christian Almendares, current member of my group

51 Maliyah Ong, current memberof my team

52 Alex Pandey, current member of my team

53 Lizette Villa, current member of my team

54 Nicholas Lombardo, Data Scientist at Southern California Coastal Water Research

55 Jasmin Duehring, Graduate Student at UC San Diego

56 Will Wang, Graduate Student at U Wisconsin, Madison

57 Rasul Ibragimov, PhD student at UC Irvine

58 Aubree Krager, current member of my team

59 James Owens, current member of my team

60 Nicholas Noel, current member of my team

61 Johnson Tong, Data Scientist at Google

62 Sasha Tafolla, current member of my team

63 Ixhua Ramirez, current member of my team

64 Alejandro Reyes, NSF SoCal Data Science scholar

65 Alfonso Vieyra, NSF SoCal Data Science scholar

66 Alison Cher, NSF SoCal Data Science scholar

67 Alyssandrei Francine Parinas, NSF SoCal Data Science scholar

68 Ayah Halabi, NSF SoCal Data Science scholar

69 Brandon Huett, NSF SoCal Data Science scholar

70 Brittnie Villasenor, NSF SoCal Data Science scholar

71 Alejandro Reyes, NSF SoCal Data Science scholar

72 Cadence Pinkerton, NSF SoCal Data Science scholar, PhD student at UCI

73 Chandra Lindy, NSF SoCal Data Science scholar

74 Deborah Franza, NSF SoCal Data Science scholar

75 Emi Cervantes, NSF SoCal Data Science scholar

76 Emily Murphy, NSF SoCal Data Science scholar

77 Ernesto Gollazo, NSF SoCal Data Science scholar

78 Giles Pierre Nunez, NSF SoCal Data Science scholar

79 Hester Nguyen, NSF SoCal Data Science scholar

80 James Nguyen, NSF SoCal Data Science scholar

81 Julie Troung, NSF SoCal Data Science scholar

82 Katie Saldivar, NSF SoCal Data Science scholar

83 Mehrdokht Noranian, NSF SoCal Data Science scholar

84 Molly Wu, NSF SoCal Data Science scholar

85 Monte Davityan, NSF SoCal Data Science scholar, PhD Student at UCSB

86 Noel Racquinio, NSF SoCal Data Science scholar

87 Terrell Lemons, NSF SoCal Data Science scholar

88 Vitoria Mendoza, NSF SoCal Data Science scholar

89 Yi Ling Chiu, NSF SoCal Data Science scholar

90 Melissa Peng, NSF SoCal Data Science scholar

91 Vincent Bguyen, NSF SoCal Data Science scholar

92 Dahlia Sukaik, NSF SoCal Data Science scholar

93 Devin Lai, NSF SoCal Data Science scholar

94 Claire Couyoumjian, NSF SoCal Data Science scholar

95 Yoav Noiman, NSF SoCal Data Science scholar

96 Connie Zhu, NSF SoCal Data Science scholar

97 Alondra Gonzalez, NSF SoCal Data Science scholar

98 Milka Perez, NSF SoCal Data Science scholar

99 Nancy Torres, NSF SoCal Data Science scholar

100 Nkosi Sampson, NSF SoCal Data Science scholar

101 Samantha Rehome, NSF SoCal Data Science scholar

102 Eduardo Castadena, NSF SoCal Data Science scholar

103 Sandra Nguyen, NSF SoCal Data Science scholar

104 Scott Sprengel, NSF SoCal Data Science scholar

105 Luke Makishima, NSF SoCal Data Science scholar

Selected Statistical Consulting Projects:

2020   Analysis of Leukoplakia Data, Spectrum Pharmaceutical.

2011-2019   Statistical researcher for the NSF grant: Teachers Assisting Students to Excel in Learning Mathematics (TASEL-M) Phase 2, California State University, Fullerton.

2002-2003   Bayesian Multiple Curve Fitting in the Analysis of Neuronal Data (Carnegie Mellon University, Center for Neuronal Basis of Cognition, Pittsburgh, PA)

2001 - 2002   Statistical Analysis of a Movement Based Serial Reaction Time Experiment (Carnegie Mellon University and Center for Neuronal Basis of Cognition, Pittsburgh, PA)

2000   Comparison of Neural Firing Patterns Under Two Conditions, with Robert Kass, (Carnegie Mellon University, Pittsburgh, PA)

1998-1999   Highway I-15 Congestion Pricing Project, (San Diego State University, San Diego, CA)

Other Professional Activities:

2005-2008   Coordinator of the Mathematics Tutoring Center at the California State University at Bakersfield

2007-2008   Statistics Coordinator at California State University at Bakersfield

2003-2007   Assistant Professor of Mathematics at California State University at Bakersfield

2002   Instructor: Introduction to Statistical Methods, 36202, CMU

2002   Associate Instructor: Statistical Reasoning, 36201, CMU

1999-2002   Teaching Assistantship, Carnegie Mellon University: Statistical Reasoning, Experimental Design for Behavioral and Social Sciences, Engineering Statistics and Quality Control, Statistics for Laboratory Sciences

1998-1999   Instructor, San Diego State University: Basic Statistical Methods (Stats 250), 2 semesters

1997-1999   Instructor, University of California San Diego: Beginning and Intermediate Persian

Selected Courses Taught:

Bayesian Statistics, Machine LEarning, Statistical Learning, Modern Approaches to Data Analysis, Biostatistics, Categorical Data Analysis, Pattern Recognition and Machine Learning, Mathematical Statistics, Probability Theory, Nonparametric Statistics, Design of Experiments, Advanced Mathematical Modeling.

Computer Skills:

R, Python, C, C++, FORTRAN, UNIX, LINUX, HTML, TEX, LaTEX, SPSS, MATLAB, JMP, SPLUS, and NCSS.

Professional Membership:

2010- Society for Neuroscience

2005- Mathematical Association of America

2002- International Biometric Society

2001- American Association for Advancement of Science

1999- Institute of Mathematical Statistics

1997- American Statistical Association