

# Sam Behseta Curriculum Vitae

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## 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.

## Professional Experience:

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

**Fall 2011** Professor of Mathematics at California State University at Fullerton

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

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

**Fall 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*

## External Funding:

- 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.
- 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.
- 2021** NIH. PI: Archana McEligot, co-Investigators: Sam Behseta, Math Cuajungco, Sinjini Mitra, Neurocognitive Aging and Analytics Research Education (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.

## CSU Funding:

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

## Selected Publications:

- 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., Berdyeva, 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.

### **Undergraduate Publication Supervisor:**

- 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 *Drosophila melanogaster*, *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.

### **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.

## Honors and Awards:

- 2017** Selected as a Fellow of the American Statistical Association.
- 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

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

## Textbook Under Preparation:

- 2020** Kass. R, Behseta S, *Data Analysis: an introduction to mathematical principles of statistics*, Springer, New York.

## **Refereeing:**

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

## **Unpublished Manuscript:**

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

## **Selected Presentations:**

**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, presented 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, Miami, Florida, August.
- 2010** Fifth International Workshop Statistical Analysis of Neuronal Data, Pittsburgh, Pennsylvania.
- 2010** Joint 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:

- 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 University), 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 Non-parametric 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.

### **Mentoring and Undergraduate Research Supervision:**

- 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, starting PhD at Rice University
- 46** Gwendylon Lind, Currently: Data Scientist at Orange County.
- 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 member of my team
- 52** Alex Pandey, current member of my team

## **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)

**Summer 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:**

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

**Fall 2007-2008** Statistics Coordinator at California State University at Bakersfield

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

**Summer 2002** Instructor: Introduction to Statistical Methods, 36202, CMU

**Fall 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, 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