Paul A. Parker

Department of Statistics
University of California, Santa Cruz
Santa Cruz, CA 95064

paulparker@ucsc.edu
www.paparkerstat.com

EDUCATION

University of Missouri, Columbia, MO
Ph.D., Statistics, July 2021 — Advisor: Dr. Scott H. Holan
Dissertation: Bayesian Unit Level Modeling of Non-Gaussian Survey Data Under Informative Sampling with Application to Small Area Estimation
M.A., Statistics, December 2018

University of Idaho, Moscow, ID
B.S., Applied Mathematics, May 2014
Minor, Statistics

EXPERIENCE

Assistant Professor — University of California, Santa Cruz
July 2021 - Current
Department of Statistics

Research Mathematical Statistician — U.S. Census Bureau
March 2022 - March 2025
Center for Statistical Research and Methodology

FUNDING

09/26-08/28 Model Enhancement for the SHAPE Tool, USDA-ARS Cooperative Agreement. Role: PI; **$563,370**.

10/25-9/28 Collaborative Research: CAIG: Using statistical neural networks to learn ocean microbial ecology from flow cytometry data, NSF-RISE. Role: Co-PI (50%)(PI - Sangwon Hyun) **$592,981**.

10/24-9/25 Robust small-area estimation strategies for developing accurate stand-level diameter distributions. Role: PI on subaward from University of Idaho, (Prime Sponsor: NCASI Foundation, Prime PI: Jaslam Poolakkal, Prime Award Amount: $150,000), UCSC Portion **$9,794**.

9/22-8/26 Collaborative Research: Randomization Based Machine Learning Methods in a Bayesian Model Setting for Data from a Complex Survey or Census, NSF-NCSES. Role: PI **$337,271**.

9/22-8/23 Objective Bayes 2022 Methodology Conference, NSF. Role: PI (Li, Z., Kottas, A., & Sanso, B. Co-PIs); **$10,000**.

REFEREED PAPERS

1. Pawl, E., Ribalet, F., **Parker, P.A.**, and Hyun, S. (2026) Mixtures of Neural Network Experts with Application to Phytoplankton Flow Cytometry Data. *Environmetrics*, 37(7), e70148, https://doi.org/10.1002/env.70148.
2. **Parker, P.A.** and Eideh, A. (2026) BART-FH: Flexible Nonlinear Modeling for Small Area Estimation. *Journal of Survey Statistics and Methodology* 00, 1-18, https://doi.org/10.1093/jssam/smaf050.
3. Pais, N.V., Holan, S.H., **Parker, P.A.** (2025) Topic Modeling for Free-Response Text Data from a Complex Survey. *Journal of the Royal Statistical Society Series A* 00, 1-15, https://doi.org/10.1093/jrsssa/qnaf187.
4. Wang, Q., **Parker, P.A.**, and Lund R. (2025) Hierarchical Count Echo State Network Models with Application to Graduate Student Enrollments. *Data Science in Science*, Special Issue on "Data Science in the Federal Government", 4(1), https://doi.org/10.1080/26941899.2025.2565243.

5. Wang, Z., **Parker, P.A.**, and Holan, S.H. (2025) Variational Autoencoded Multivariate Spatial Fay-Herriot Models. *Spatial Statistics*, 70, 100929.
6. **Parker, P.A.**, Holan, S.H., Bachmeier, J.D., and Altman, C. (2025) The Link Between Health Insurance Coverage and Citizenship Among Immigrants: Bayesian Unit-Level Regression Modeling of Categorical Survey Data Observed with Measurement Error. *Journal of the Royal Statistical Society Series A*, qnaf132.
7. Kawano, S., **Parker, P.A.**, and Li, Z.R. (2025) Spatially Selected and Dependent Random Effects for Small Area Estimation with Application to Rent Burden. *Journal of the Royal Statistical Society Series A*, qnaf063.
8. Veum, K.S., **Parker, P.A.**, Holan, S.H., Pais, N., Wills, S.A., Amsili, J.P., van Es, H.M., Nunes, M.R., Seybold, C.A., and Karlen, D.L. (2025) Spatially Explicit Heteroskedastic Modeling for the Soil Health Assessment Protocol and Evaluation (SHAPE) version 1.0S. *Soil Science Society of America Journal*, 89(3), e70065.
9. Vedensky, D., **Parker, P.A.**, and Holan, S.H. (2025) Bayesian Unit-level Models for Longitudinal Survey Data under Informative Sampling: An Analysis of Expected Job Loss Using the Household Pulse Survey. *Journal of the Royal Statistical Society Series A*, qnaf043.
    - Honorable mention - ASA GSS/SSS/SRMS 2025 Student Paper Competition
10. **Parker, P.A.** and Sansó, B. (2025) A Heterogeneous Spatial Model for Soil Carbon Mapping of the Contiguous United States Using VNIR Spectra. *Journal of Agricultural, Biological and Environmental Statistics*, Special Issue on "New Perspectives in Statistics, Data Science and Econometrics for Agriculture, Land Use and Forestry", 30(2), 517-539.
11. Wang, Q., **Parker, P.A.**, and Lund R. (2025) Spatial Deep Convolutional Neural Networks. *Spatial Statistics*, 66, 100883.
12. **Parker, P.A.**, Holan, S.H., and Janicki, R. (2024) Conjugate Modeling Approaches for Small Area Estimation with Heteroscedastic Structure. *Journal of Survey Statistics and Methodology*, 12(4), 1061-1080.
13. Nunes, M.R., Veum, K.S., **Parker, P.A.**, Holan, S.H., Amsili, J.P., van Es, H.M., Wills, S.A., Seybold, C.A., and Karlen, D.L. (2024) SHAPEv1.0 Scoring Curves and Peer Group Benchmarks for Dynamic Soil Health Indicators. *Soil Science Society of America Journal*, 88, 858–875, https://doi.org/10.1002/saj2.20668.
14. **Parker, P.A.** (2024) Nonlinear Fay-Herriot Models for Small Area Estimation using Random Weight Neural Networks. *Journal of Official Statistics*, 40(2), 317-332.
15. **Parker, P.A.**, Janicki, R., and Holan, S.H. (2023) Comparison of Unit Level Small Area Estimation Modeling Approaches for Survey Data Under Informative Sampling. *Journal of Survey Statistics and Methodology*, 11(4), 858-872.
16. **Parker, P.A.**, Janicki, R., and Holan, S.H. (2023) A Comprehensive Overview of Unit Level Modeling of Survey Data for Small Area Estimation Under Informative Sampling. *Journal of Survey Statistics and Methodology*, 11(4), 829-857.
17. **Parker, P.A.**, and Holan, S.H. (2023) Computationally Efficient Bayesian Unit-Level Random Neural Network Modeling of Survey Data under Informative Sampling for Small Area Estimation. *Journal of the Royal Statistical Society Series A*, 184(4), 722-737.
18. Vedensky, D., **Parker, P.A.**, and Holan, S.H. (2023) A Look Into the Problem of Preferential Sampling Through the Lens of Survey Statistics. *The American Statistician*, 77(3), 313-322.
19. **Parker, P.A.**, and Holan, S.H. (2022) A Bayesian Functional Data Model for Surveys Collected under Informative Sampling with Application to Mortality Estimation using NHANES. *Biometrics* 79(2), 1397-1408.
    - Honorable mention - ASA GSS/SSS/SRMS 2021 Student Paper Competition

20. **Parker, P.A.**, Holan, S.H., and Janicki, R. (2022) Computationally Efficient Bayesian Unit-Level Models for Non-Gaussian Data Under Informative Sampling with Application to Estimation of Health Insurance Coverage. *The Annals of Applied Statistics*, 16(2), 887-904.
21. Sun, A., **Parker, P.A.**, and Holan, S.H. (2022) Analysis of Household Pulse Survey Public-Use Microdata via Unit-Level Models for Informative Sampling. *Stats*, Special Issue on "Small Area Estimation: Theories, Methods and Applications", 5(1), 139-153.
22. **Parker, P.A.**, Holan, S.H., and Wills, S.A. (2021) A General Bayesian Model for Heteroskedastic Data with Fully Conjugate Full-Conditional Distributions. *Journal of Statistical Computation and Simulation*, 91(15), 3207-3227.
23. Nunes, M.R., Veum, K.S., **Parker, P.A.**, Holan, S.H., Karlen, D.L., Amsili, J.P., van Es, H.M., Wills, S.A, Seybold, C.A., and Moorman, T.B. (2021) The Soil Health Assessment Protocol and Evaluation Applied to Soil Organic C. *Soil Science Society of America Journal*, 85, 1196– 1213.
24. **Parker, P.A.**, Holan, S.H., and Ravishanker, N. (2020) Nonlinear Time Series Classification Using Bispectrum-based Deep Convolutional Neural Networks. *Applied Stochastic Models in Business and Industry*, 36, 877– 890.
25. **Parker, P.A.**, Holan, S.H., Janicki, R. (2020) Conjugate Bayesian Unit-level Modelling of Count Data Under Informative Sampling Designs. *Stat*, 9(1): e267.
26. Veum, K.S., **Parker, P.A.**, Sudduth, K.A., and Holan, S.H., (2018) Predicting Profile Soil Properties with Reflectance Spectra via Bayesian Covariate Assisted External Parameter Orthogonalization. *Sensors*, 18, 3869, doi:10.3390/s18113869.

PAPERS UNDER REVIEW

1. Vedensky, D., **Parker, P.A.**, and Holan, S.H. (2026+) Bayesian Unit-level Modeling of Categorical Survey Data with a Longitudinal Design. (Under Invited Revision - Bayesian Analysis)
2. Wang, Q., **Parker, P.A.**, Lund R., and Woody, J. (2026+) A Spatio-Temporal Study of Planetary Snow Presence Trends. (Under Invited Revision - Journal of the American Statistical Association)
3. Kong, Z., **Parker, P.A.**, Bradley, J., and Holan, S.H. (2026+) A Bayesian Approach to Unit-level Dependent Multi-type Survey Data. (Under Invited Revision - Journal of Survey Statistics and Methodology)
4. Kei, Y.L., Wang, Q., **Parker, P.A.**, Ribalet, F., Hyun, S. (2026+) Change Point Detection for Cell Populations Measured via Flow Cytometry. (Submitted)
5. Kawano, S., **Parker, P.A.**, Li, Z.R. (2026+) On Data Thinning for Model Validation in Small Area Estimation. (Submitted)
6. Kong, Z., **Parker, P.A.**, and Holan, S.H. (2026+) Scalable Joint Modeling of Dependent Multi-Type Survey Data for Small Area Estimation. (Submitted)
7. Kawano, S., Vedensky, D., Dong, Q., Pawl, E., Wang, Q., **Parker, P.A.**, Li, Z.R., Holan, S.H. (2026+) Nonprobability Samples for Small Area Estimation: A Review and Comparative Simulation Study. (Submitted)
8. Kawano, S., Li, Z.R., **Parker, P.A.** (2026+) Prediction-Powered Smoothing and Validation for Disaggregated AI Evaluation. (Submitted)

BOOK CHAPTERS

1. Wang, Z., **Parker, P.A.**, and Holan, S.H. (2026+) Neural Networks for Official Statistics: Modeling High-Dimensional Structure in Complex Surveys and Administrative Records. *Handbook of Statistics*, 55.
2. **Parker, P.A.**, Janicki, R., and Holan, S.H. (2023) Bayesian Methods Applied to Small Area Estimation for Establishment Statistics. *Advances in Business Statistics, Methods and Data Collection*. John Wiley & Sons.

INVITED DISCUSSIONS IN REFEREED JOURNALS

1. Maranzano, P. and **Parker, P.A.** (2025) Discussion of "Assessing predictability of environmental time series with statistical and machine learning models" by Bonas, M., Datta, A., Wikle, C.K., Boone, E.L., Alamri, F.S., Hari, B.V., Kavila, I., Simmons, S.J., Jarvis, S.M., Burr, W.S., Pagendam, D.E, Chang, W., and Castruccio, S., *Environmetrics*, 36: e70001.

SOFTWARE

1. **Parker, P.A.** (2026) `nlfh` - *An R package that implements Nonlinear Fay-Herriot Models for Small Area Estimation.* Available at `https://cran.r-project.org/web/packages/nlfh/index.html`.
2. Wang, Z., **Parker, P.A.**, and Holan, S.H. (2025) `vmsae` - *An R package for Variational Multivariate Spatial Small Area Estimation.* Available at `https://cran.r-project.org/web/packages/vmsae/index.html`.

TALKS

1. "Statistical and Machine Learning Approaches to Modeling Dependent Data for Official Statistics ," Joint Statistical Meetings (Introductory Overview Lecture), Boston, MA, August 2026.
2. "New Approaches for Handling Nonlinearity in Area-level Small Area Estimation," Joint Statistical Meetings (Invited Session), Boston, MA, August 2026.
3. "Spatially Selected and Dependent Random Effects for Small Area Estimation with Application to Rent Burden," Joint Statistical Meetings (Invited Session), Nashville, TN, August 2025.
4. "Spatially Selected and Dependent Random Effects for Small Area Estimation with Application to Rent Burden," Small Area Estimation Conference (Invited Session), Turin, Italy, July 2025.
5. "Spatially Selected and Dependent Random Effects for Small Area Estimation with Application to Rent Burden," Department of Statistics, Texas A&M University, October 2024.
6. "Statistical Deep Learning for Dependent Establishment Data," Joint Statistical Meetings (Invited Session), Portland, OR, August 2024.
7. "Statistical Deep Learning for Dependent Establishment Data," Seventh International Conference on Establishment Statistics (Invited Session), Glasgow, Scotland, June 2024.
8. "Conjugate Modeling Approaches for Heteroskedastic Structure with Application to Small Area Estimation," Small Area Estimation Conference (Invited Session), Lima, Peru, June 2024.
9. "Conjugate Modeling Approaches for Heteroskedastic Structure with Application to Small Area Estimation," ISI International Association for Official Statistics Conference (Invited Session), Mexico City, Mexico, May 2024.
10. "The Link Between Health Insurance Coverage and Citizenship Among Immigrants: Bayesian Regression Modeling of Categorical Survey Data Observed with Measurement Error," Mizzou Statistics 60th Anniversary Conference, Columbia, MO, October 2023.
11. "Bayesian Unit Level Modeling of Non-Gaussian Survey Data Under Informative Sampling with Application to Small Area Estimation," Joint Statistical Meetings, (Savage Award Session), Toronto, Canada, August 2023.
12. "Conjugate Modeling Approaches for Heteroskedastic Structure with Application to Small Area Estimation," Department of Mathematics and Statistics, University of Maryland Baltimore County, March 2023.
13. "Computationally Efficient Bayesian Heteroskedastic Modeling for Small Area Estimation," University of Washington Space-Time Reading Group, October 2022.

14. "Computationally Efficient Bayesian Heteroskedastic Modeling for Small Area Estimation," Joint Statistical Meetings, (Topic Contributed Session), Washington, D.C., August 2022.
15. "A General Bayesian Model for Heteroskedastic Data with Fully Conjugate Full-Conditional Distributions ," University of California Santa Cruz, Santa Cruz, CA, May 2021.
16. "Computationally Efficient Bayesian Unit-Level Modeling of Non-Gaussian Survey Data under Informative Sampling," University of Connecticut, Storrs, CT (held virtually), March 2022.
17. "Computationally Efficient Bayesian Unit-Level Modeling of Non-Gaussian and Complex Survey Data under Informative Sampling," U.S. Census Bureau – Center for Statistical Research and Methodology (CSRM), October 2021.
18. "A Bayesian Functional Data Model for Surveys Collected under Informative Sampling with Application to Mortality Estimation using NHANES," Joint Statistical Meetings, (Topic Contributed Session), Seattle, WA (held virtually), August 2021.
19. "A Bayesian Functional Data Model for Surveys Collected under Informative Sampling with Application to Mortality Estimation using NHANES," Quality and Productivity Research Conference, (Invited Session), Tallahassee, FL (held virtually), July 2021.
20. "Computationally Efficient Bayesian Models for Non-Gaussian and Complex Survey Data under Informative Sampling," Utah State University, Logan, UT (held virtually), March 2021.
21. "Computationally Efficient Bayesian Models for Non-Gaussian and Complex Survey Data under Informative Sampling," University of California Santa Cruz, Santa Cruz, CA (held virtually), February 2021.
22. "Nonlinear Time Series Classification Using Bispectrum-based Deep Convolutional Neural Networks," International Virtual Conference on Advanced Statistical Techniques in Business and Industry, (Invited Session), Cochin University of Science and Technology (CUSAT), India (held virtually), December 2020.
23. "Computationally Efficient Bayesian Models for Non-Gaussian and Complex Survey Data under Informative Sampling," University of Texas at El Paso, El Paso, TX (held virtually), December 2020.
24. "Computationally Efficient Deep Bayesian Unit-Level Modeling of Survey Data Under Informative Sampling for Small Area Estimation," Joint Statistical Meetings, (Topic Contributed Session), Philadelphia, PA (held virtually), August 2020.
25. "Conjugate Bayesian Unit-level Modeling of Count Data Under Informative Sampling Designs," Truman State University, Kirksville, MO, October 2019.
26. "An Overview of Unit-level Models for Survey Data Under Informative Sampling with an Emphasis on Bayesian Methods," University of Missouri Population, Education and Health Center Seminar Series, Columbia, MO, September 2019.
27. "Multivariate Unit-level Models for Non-Gaussian Survey Data Under Informative Sampling Designs," Joint Statistical Meetings, (Topic Contributed Session), Denver, CO, July 2019.

AWARDS

Honorable Mention - Savage Award in Applied Methodology 2022
International Society for Bayesian Analysis

International Conference on Establishment Statistics VI Student Competition 2021
First Prize

Joint Statistical Meetings Student Travel Award 2021
Survey Research Methods Section

Honorable Mention - JSM Student Paper Competition 2021
GSS/SSS/SRMS

Census Bureau Dissertation Fellowship August 2019 - July 2021
U.S. Census Bureau

Interdisciplinary Doctoral Fellowship August 2018 - May 2019
University of Missouri Population, Education, and Health Center and Research Data Center

UNIVERSITY SERVICE

Committee Member Spring 2026
Baskin, Dissertation-Year, and Google Fellowship Award Review Committee

Judge Fall 2025
United Nations Reboot the Earth Hackaton hosted by Baskin Engineering

Seminar Coordinator Fall 2025
University of California Santa Cruz, Department of Statistics

Graduate Committee Member Fall 2025
University of California Santa Cruz, Department of Statistics

Seminar Co-Coordinator Fall 2024
University of California Santa Cruz, Department of Statistics

Statistics Department Undergrad Proposal Committee Member 2023-2025
University of California Santa Cruz, Department of Statistics

Seminar Coordinator Winter 2023, Winter 2024
University of California Santa Cruz, Department of Statistics

Graduate Committee Member Spring 2021, 2022-2023, 2023-2024
University of California Santa Cruz, Department of Statistics

Statistics Department Search Committee Member 2021-2022
University of California Santa Cruz, Department of Statistics

Seminar Co-Coordinator Winter 2022
University of California Santa Cruz, Department of Statistics

MS Program Committee Member 2021 - 2022
University of California Santa Cruz, Department of Statistics

Member of Sub-committees for Personnel Review 2021-2025
University of California Santa Cruz, Department of Statistics

Colloquium Committee
University of Missouri, Department of Statistics December 2017 - August 2018
Student Representative

University of Missouri Statistics Graduate Student Association
Interim Vice President May 2017 - August 2017
Secretary August 2016 - August 2017

SERVICE TO THE PROFESSION

Topic Contributed Session Organizer August 2026

Joint Statistical Meetings, "Recent Advances in Statistical and Machine Learning Models for Dependent Data from Complex Survey and Decennial Census Data" (Joint with S.H. Holan)

Program Committee Member 2025-2028
International Conference on Establishment Statistics VIII

Topic Contributed Session Organizer and Chair August 2025
Joint Statistical Meetings, "Advances in Dependent Data Modeling for Small Area Estimation"

Topic Contributed Session Organizer August 2025
Joint Statistical Meetings, "Hierarchical Modeling and Machine Learning for Complex Survey Data" (Joint with S.H. Holan)

Topic Contributed Session Organizer and Chair August 2024
Joint Statistical Meetings, "Navigating Complexity: Recent Advances in Analysis of Data from Complex Surveys" (Joint with S.H. Holan)

Topic Contributed Session Organizer August 2024
Joint Statistical Meetings, "Innovative Modeling Approaches for Small Area Estimation in the Presence of Complex Dependence Structures" (Joint with S.H. Holan)

Invited Session Organizer May 2024
IAOS-ISI Conference, "Modern Approaches for Small Area Estimation in Official Statistics"

Modern Survey Statistics Reading Group Coordinator 2023-2024
Joint between University of California, Santa Cruz and University of Missouri

Reviewer Winter 2023
ASA, Section on Bayeian Statistical Science student paper competition (for *2023 Joint Statistical Meetings*)

Session Chair September 2022
Objective Bayes 2022 Methodology Conference

Local Organizing Committee Member 2021 - 2022
Objective Bayes 2022 Methodology Conference

Space Time Reading Group Coordinator August 2020 - December 2020
University of Missouri, Department of Statistics

DataFest Mid-Missouri (American Statistical Association)
Lead Graduate Student Coordinator August 2018 - April 2021
Workshop Instructor August 2017 - April 2021
VIP Consultant August 2017 - April 2021

External Reviewer for:
- Canadian Statistical Sciences Institute

EDITORIAL ACTIVITIES

Guest Editor, *Data Science in Science*, Special issue on "Data Science in the Federal Government" 2024-2025

Refereed Articles for:
Advances in Statistical Climatology, Meteorology and Oceanography
Annals of Applied Statistics (3)

Australian & New Zealand Journal of Statistics
Biometrics
Biostatistics
Biostatistics & Epidemiology
Canadian Journal of Statistics
Data Science in Science
Environmental and Ecological Statistics (3)
Environmental Statistics: Innovative Methods and Applications
International Statistical Review (4)
Journal of Agricultural, Biological, and Environmental Statistics
Journal of the American Statistical Association
Journal of Nonparametric Statistics
Journal of Official Statistics (2)
Journal of the Royal Statistical Society: Series A (2)
Journal of the Royal Statistical Society: Series C (3)
Journal of Statistical Computation and Simulation
Journal of Survey Statistics and Methodology (5)
Metrika
Spatial Statistics (2)
Statistics and Public Policy
Stats
Survey Methodology (2)
Technometrics

SUPERVISION

Postdocs

- Parul Patil (Joint with Sangwon Hyun) 2026 - Current
- Namitha Pais (Joint with Scott Holan) 2023-2025
  - Currently a data scientist at Google

Doctoral Students

- Aubree Krager, Statistics (Joint with Rebecca Killick) Current
- Lyndsey Umsted, Statistics Current
- Ethan Pawl, Statistics (Joint with Sangwon Hyun) Current
- Sho Kawano, Statistics (Joint with Richard Li) Current
  - Winner of the 2024 Wray Jackson Smith Scholarship
- Qi Wang, Statistics Spring 2025
  "Modern Statistical Methods for Modeling Spatial and Temporal Processes"
  - Currently a postdoctoral researcher in biostatistics at Emory University
  - 2025-2026 UCSC Dissertation Year Fellowship Recipient

Masters Students

- Adam Slivinsky, Statistics Summer 2024
  "Evaluating MLB Umpire Performance using Statistical Period-Constrained Neural Networks"
  - Winner of the 2024 UConn Sports Analytics Symposium Student Poster Competition
  - Currently an Analyst for Baseball Operations with the Detroit Tigers
- Jacobo Pereira-Pacheco, Statistics Summer 2022
  "Exploring Model-Assisted Survey Estimation Techniques for COVID-19 Impacts in the United States"
  - Currently a statistical analyst at RAND

Academic Advising

Samantha Zhu, Statistics	2025-2026
Vikram Srinivasan, Statistics	2024-2025
Ethan Pawl, Statistics	2023-2024
Adam Slivinsky, Statistics	2023-2024
Qi Wang, Statistics	2021-2022

Supervisory Committee Membership

Benjamin Ticknor, Statistics, PhD	Current
Qianyu Dong, Statistics, PhD	Current
Seokjun Choi, Statistics, PhD	Current
Toshiya Yoshida, Statistics, MS	Winter 2025
Zach Horton, Statistics, PhD	Fall 2024
Nick Grunloh, Statistics, PhD	Summer 2024
Sanju Alam, Statistics, MS	Fall 2023
Xiaotian Zheng, Statistics, PhD	Summer 2022

TEACHING

Stat 132: Classical and Bayesian Inference — Fall 2026
University of California Santa Cruz

Stat 208: Linear Statistical Models — Spring 2026
University of California Santa Cruz

Stat 80A: Gambling & Gaming — Fall 2025
University of California Santa Cruz

Stat 208: Linear Statistical Models — Spring 2025
University of California Santa Cruz

Stat 132: Classical and Bayesian Inference — Winter 2025
University of California Santa Cruz

Stat 204: Introduction to Statistical Data Analysis — Fall 2024
University of California Santa Cruz

Stat 208: Linear Statistical Models — Spring 2024
University of California Santa Cruz

Stat 131: Intro to Probability Theory — Winter 2024
University of California Santa Cruz

Stat 80A: Gambling & Gaming — Fall 2023
University of California Santa Cruz

Stat 208: Linear Statistical Models — Spring 2023
University of California Santa Cruz

Stat 7: Statistical Methods for the Biological, Environmental, and Health Sciences — Winter 2023
University of California Santa Cruz

Stat 204: Introduction to Statistical Data Analysis — Fall 2022
University of California Santa Cruz

Stat 208: Linear Statistical Models — Spring 2022
University of California Santa Cruz

Stat 205B: Intermediate Classical Inference — Winter 2022

University of California Santa Cruz

Stat 2500: Introduction to Prob. & Statistics I Fall 2016
University of Missouri

CONSULTING EXPERIENCE

Veterans United Home Loans September 2018 - March 2019

OTHER RELEVANT EXPERIENCE

Guest lecturer, Stat 200 - Research and Teaching in Statistics, University of California, Santa Cruz, November 2024

Guest lecturer, Stat 204 - Introduction to Statistical Data Analysis, University of California, Santa Cruz, November 2023

Guest lecturer, Stat 200 - Research and Teaching in Statistics, University of California, Santa Cruz, September 2023

Guest lecturer, Stat 200 - Research and Teaching in Statistics, University of California, Santa Cruz, September 2022

Guest lecturer, Stat 200 - Research and Teaching in Statistics, University of California, Santa Cruz, September 2021

Guest lecturer, Stat 8710 - Intermediate Mathematical Statistics I, University of Missouri, August 2019

Guest lecturer, Stat 7870 - Time Series Analysis, University of Missouri, August 2019

Developed an R Shiny app to be used for soil health scoring in conjunction with the USDA Natural Resources Conservation Service
`https://paparker.shinyapps.io/shape_app/`