Ethan Pawl

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Summary

I am a second-year Ph.D. student in statistics interested in modeling complex (nonlinear and non-Gaussian) behavior while maintaining the proper balance between flexibility, computational efficiency, and interpretability. Currently, I apply such methods to oceanographic data, but I am also interested in the biological, environmental, and health sciences.

Education

University of California, Santa Cruz — Co-Advisors: Dr. Sangwon Hyun, Dr. Paul Parker
Ph.D., Statistical Science, expected June 2028

University of Texas at Dallas, Richardson, TX
B.S., Data Science, May 2023

Technical Skills

Statistical: Mixture Models, Generalized Linear Models, Nonparametric/Machine Learning Methods, Markov Chain Monte Carlo, R Packages
Languages: R, Python, SQL, C++, LaTeX
Misc.: GNU/Linux, Bash, Slurm

Experience

Data Analyst Intern — **Ericsson**, Lewisville, TX
05/2022 - 08/2022 — Data & Analytics

- Developed and deployed a classification model to track start and end times of assembly line malfunctions
- Created online data visualizations to highlight discrepancies between manual and model-based reports of malfunction times
- Connected production Tableau dashboards to newly available sources of data

Graduate Student Employment

Teaching Assistant — **University of California, Santa Cruz**
09/2023 - Present

- I held weekly discussion sections and office hours, led students in group learning activities, and evaluated students' performance in the following classes:
  - STAT 132: Classical and Bayesian Inference
  - STAT 80B: Data Visualization
  - STAT 7: Statistical Methods for the Biological, Environmental, and Health Sciences
  - STAT 5: Statistics

Teaching Materials Developer — **University of California, Santa Cruz**
07/2024 - 08/2024 — PI: Dr. Pedro Morales-Almazan

- Developed computational instructional materials (a series of R Jupyter notebooks) to be used as templates for instructors in higher education to develop their own in-class activities focusing on the application of data science to their own fields