

STATISTICS STUDENT RESEARCH OPPORTUNITIES WITH FACULTY

WINTER/SPRING 2024

Title: **Cost of School Employee Sexual Misconduct**
Faculty: **Billie-Jo Grant**
Description: This project will involve tracking civil case settlements and payouts for school districts who have been sued for the wrongful prevention, investigation, or handling of school employee sexual misconduct cases. Students will assist with collecting, analyzing, and presenting the data. The project and results will be submitted to a peer reviewed journal.

Prerequisites:

Title: **Evaluation of FOIA data**
Faculty: **Billie-Jo Grant**
Description: This project will involve analyzing documents provided from the largest school districts in the US who were asked to provide their records for the reprimand, discipline, or dismissal of teachers who have committed school employee sexual misconduct. Students will assist with coding, entering data, data analysis and reporting. The project and results will be submitted to a peer reviewed journal.

Prerequisites:

Title: **Sexual Misconduct Prevalence: Case Tracking 2014 – 2023**
Faculty: **Billie-Jo Grant**
Description: This project will involve tracking google alerts of cases of school employee sexual misconduct in the United States. The student will track case characteristics such as victim and offender characteristics and case details. This database is the most comprehensive list of school employee sexual misconduct cases in the US and is referenced often by researchers, media reporters, and legislators. Students will assist with collecting additional variables, analysis, and preparing state-specific dashboards. The project and results will be submitted to a peer reviewed journal.

Prerequisites:

Title: **"See" Value Analysis of Statistical Lineups**
Faculty: **Emily Robinson**
Description: Standard statistical inference relies on p-values to measure our strength of evidence. Data plots can be viewed as a test statistic when embedded within a set of plots generated under a null assumption. I have a couple of pre-existing data sets from graphical testing in which we could carry out an analysis to determine p-values for visual inference practices.

Prerequisites: STAT 331, 302

Title: **Graphical Testing: Comparison of "You Draw It" Method**
Faculty: **Emily Robinson**
Description: Design and conduct a graphical test to compare the virtual 'youdrawitR' package usage via different platforms: paper, computer with mouse, ipad. This involves collecting your own data from participants (e.g., IRB process, study design, participant recruitment, etc.).
Prerequisites: STAT 331, 301

Title: **Bioacoustic Analysis of Locally Collected Audio Data**
Faculty: **Maddie Schroth-Glanz**
Description: The project involves the acoustic and statistical analysis of wav files collected in our coastal waters. We aim to have species identification and comparison to previously collected data in Monterey Bay over a similar time period.
Prerequisites: some coding experience

Title: **Impact of Undergraduate Research**
Faculty: **Matt Carlton & Anelise Sabbag**
Description: Dean Wendt wants to study both the quantitative and qualitative effect of participation in summer research on student outcomes.
Prerequisites: STAT 331; STAT 421 preferred

Title: **Identifying which participants are more likely to underutilize allocated resources**
Faculty: **Soma Roy**
Description: South Central Regional Center (SCLARC) provides supports and services to people with disabilities across the lifespan to people in South LA, and wants to know which clients are less likely to underutilize their allocated funds, and what can be done to encourage them to improve their partaking of these resources
Prerequisites: R
