

Sean Leader

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EDUCATION

California Polytechnic State University, San Luis Obispo

Class of 2023

- B.S. in the College of Science & Mathematics
 - Statistics major, cross-disciplinary minor in Data Science
 - Cumulative GPA: 3.804
- M.S. in Statistics

Sept '23 - June '24

WORK & RESEARCH EXPERIENCE

Data Scientist - *HomeOptions*

Jan '22 - Jan '23

- Integrated data sourcing, aggregation, manipulation, and eventual use in machine learning methods to gain customer insight for operations team
- Skills: scikit-learn, pandas, graphQL, SQL, model deployment

Biostatistics Researcher - *UC Irvine Statistics Department*

July '23 - Aug '23

- Studied differential research attitudes in populations relevant to Alzheimer's Disease
- Skills: tidyverse, statistical modeling, statistical writing and communication

Data Scientist (Capstone) - *Global Emancipation Network*

Jan '23 - June '23

- Developed network of businesses to help identify crime rings involved with human trafficking
- Skills: Neo4j, pandas, statistical writing and communication

Textbook Contributor and Editor - *Pearson*

June '23 - present

- Created activities, questions, and visualizations for college-level Data Science textbook
 - Translated activity solutions into multiple coding languages: R, Excel, and Python
- Skills: tidyverse, pandas, statistical writing and communication

Statistics Research Assistant - *Frost Undergraduate Internship*

Jan '21 - Aug '21

- Translated large R code base into reproducible format for statistical education research and performed statistical analysis on student learning outcomes
- Skills: tidyverse, statistical modeling

Workshop Instructor - *Cal Poly Statistics Department*

Jan '23 - June '23

- Facilitated supplemental workshops for statistics students in two upper-division statistics classes: Mathematical Statistics & Estimation and Sampling Theory
- Skills: statistical and probability theory, statistical communication

Instructional Student Assistant - *Cal Poly Statistics Department*

Sept '20 - Dec '21

- Evaluated and provided feedback on student assessments in introductory business statistics courses
- Skills: statistical and probability theory, statistical communication

Statistics/Computer Science Tutor - *Cal Poly Writing and Learning Center & Private*

Sept '22 - June '23

- Tutored Cal Poly students in various undergraduate courses
- Skills: statistical and probability theory, statistical communication

PUBLICATIONS & PRESENTATIONS

- Article published by the International Association for Statistical Education: Chance, B., Tintle, N., Reynolds, S., Patel, A., Chan, K., **Leader, S.** "Student Performance in Curricula Centered on Simulation-Based Inference", *Statistics Education Research Journal*, December 01, 2022.
- Presented at Cal Poly Frost Summer Undergraduate Research Symposium & COSAM Research Conference: **Leader, S.**, Chan, K. "Investigating Simulation-Based Curriculum in Introductory Statistics Courses", October 1, 2021 & May 13, 2022.
- Presented at ISI-BUDS 2023 Research Symposium: **Leader, S.**, Campos, P., Lee, X., Xu, H. "Comparing Research Attitudes in Down Syndrome and Non-Down Syndrome Decision-Makers", August 18, 2023.
- Presented at UCSB Data Science Symposium: **Leader, S.**, Zaback, A., White, B., Yang, T. "Graphing Related Illicit Message Entities Using Network Analysis", June 5, 2023.