

# Lucas Webster

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## Career Objectives

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Statistics and Data Science is my interest, but helping people is my passion. I take pride in being able to work through mazes of data with statistics, especially when the outcome is the safety or treatment of real people.

While I enjoy any biostatistics problems, my current passions are behavioral health and oncology. I plan to pursue these interests in industry to gain practical experience and eventually return to academia with the goal of instruction and expanding undergraduate opportunities in biostatistics.

## Education

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**University of California, Davis**, Ph.D. in Biostatistics Sept 2025 – Current

- **Overall GPA:** NA/4.0
- **Coursework:** NA

**University of California, Santa Barbara**, BS in Statistics and Data Science, Minor in Religious Studies Sept 2022 – June 2025

- **Overall GPA:** 4.0/4.0, Major GPA: 4.0/4.0
- **Coursework:** Linear Regression, Computational Statistics, Experimental Design, Methods of Analysis, Linear Algebra, Stochastic Processes, SAS Base Programming, Bayesian Data Analysis

## Experience

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**ISI-BUDS (SIBS)**, UC Irvine – Irvine, CA June 2024 – August 2024

- Learned and practiced the research pipeline for a biostatistics data analysis paper
- Presented at a public symposium on mhealth data and its relation to diabetes and hypertension in ethnic minority women
- Undertook a group research project over six weeks which culminated in the submission of a research paper

**Statistics Undergraduate Learning Assistant**, UC Santa Barbara – Goleta, CA April 2024 – June 2025

- Held office hours for students in intermediate statistics and data science courses
- Held review sessions to 100+ students before examinations
- Created over 100 problems of review material

**Soccer Intramural Head of Officials**, UC Santa Barbara – Goleta, CA October 2022 – June 2025

- Scheduled Referees for 30+ games every week
- Resolved disciplinary issues between players and staff
- On-boarded and trained 30+ referees

**MAX Undergraduate Learning Assistant**, UC Santa Barbara – Goleta, CA July 2024 – December 2024

- Guided incoming STEM freshman through universal STEM topics
- Served as a mentor to freshman on navigating the STEM college experience

**Volunteer E3 Learning Tutor**, Goleta Valley Junior High – Goleta, CA September 2023 – March 2024

- Volunteered weekly at the local junior high school tutoring math
- Worked with five students who were assessed to need individual help
- Saw test scores improve in all students worked with

**Data Writer**, The Daily Nexus – Goleta, CA October 2022 – October 2023

- Wrote articles published to the print and digital versions of the Daily Nexus Newspaper
- Interviewed subjects of articles
- Collected data and made visualizations for articles

**Soccer Coach**, Vision Soccer Training – Sacramento, CA

February 2020 – September 2023

- Coached over 300 players, ranging in ages 6-14.
- Ran camps independently and helped train new coaches

## Projects

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### Statistics Education Project

Confidential Data

- Analyzed and visualized demographics, self-efficacy, and confidence improvement data on an intro data-science courses students
- Used text analysis packages to create measures of free-response survey data to predict final exam grade in both data science and mathematical statistics courses
- Ran and optimized linear models to find significant predictors of final exam grades
- Collaborated with two other undergraduates to find solutions in my own and their projects
- Tools Used: R, RStudio, RShiny

### ISI-BUDS Project

Project Repository

- Used mHealth data to create linear models and analyze trends in steps, heart rate, and presence of cardio-metabolic diseases in ethnic minority women
- Used multiple imputation with chained equations to account for missingness in time series data
- Used bootstrapping to create confidence intervals for linear regression coefficients
- Collaborated with two other undergraduates, a PhD. Students, and two professors to create a paper and presentation about mHealth and Cardiometabolic Disorders
- Tools Used: R, RStudio, MICE, kNN

### Wikipedia Social Network Analysis

Wikipedia-SNA

- Collaborated with two other undergraduates to conduct social network analysis on Wikipedia article data provided by SNAP
- Created social network visualizations and metrics for links (edges) between Wikipedia articles (nodes) to find correlations between edges and article popularity and detail
- Tools Used: R, RStudio, iGraph

### Random Number Generation

RNG Project

- Used the Transformation, Accept-Reject, and Inverse CDF random number generation methods to create algorithms to randomly sample from Inverse Gamme, Log-Normal, and Weibull distributions respectively
- Used numerical and graphical inference to verify the validity of the sampling
- Tools Used: R, RStudio

### Daily Nexus Article

Sinzenich to Santa Barbara

- Worked with copy editors to revise and learn the nuances of publishable writing prose
- Used MatPlotLib and Pandas to create data visualizations appropraite for all Daily Nexus readers
- Tools Used: Python, MatPlotLib, Jupyter

## Additional Experience And Awards

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**Rama Thogarati Award** Spring 2025; a monetary award given to six undergraduate students in the UCSB PSTAT Department for having the highest GPA in their graduating class

**Floyd and Mary Schwall Fellowship** Spring 2025; an internal UC Davis 21-month fellowship for incoming Ph.D. students focused on human medical research

**Lurie Graduate Students Award** Spring 2025; an internal UC Davis fellowship for Ph.D. students focused on human medical research

**Referee of the Quarter** Winter 2024; awarded soccer referee of the quarter for UCSB intramural soccer, helping in my promotion to head of officials

## Technologies

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**Languages:** Python, R, SQL, Base SAS

**Software:** RStudio, Rshiny, RSQLite, Jupyter, MySQL, SASOnDemand, GitHub

**Packages:** iGraph, MICE, kNN, matplotlib, Pandas, ggplot

**Soft Skills:** Time Management, Cooperation, Communication, Detail-Oriented, Funny if nothing else