

Anthony Cu

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EDUCATION

University of California, Santa Barbara

SEPTEMBER 2021 - JUNE 2025

Bachelor of Science, Mathematics and Statistics & Data Science.

GPA 3.93/4.0

Dean's Honors: 2021- present. College of Letters & Science Honors Program.

Relevant Coursework: Principles of Data Science, Statistical Machine Learning, Regression Analysis, Probability & Statistics, Problem Solving with Computers, Linear Algebra, Real Analysis, Introduction to Topology

HIGHLIGHTED PROJECTS & EXPERIENCE

Diseases of Affluence

AUGUST 2023 - PRESENT

Research Assistant

- Developed an algorithm to clean, condense, and aggregate datasets from DHS and NNMB using querying and data manipulation tools (e.g. tidyverse) in R.
- Fitted linear models to visualize food plate compositions by BMI values and produce grouped bar charts portraying the prevalence of non-communicable diseases by wealth quintiles. Performed non-parametric tests to conclude interpretations joining wealth, disease, and dietary data.
- Presented at the [Electronic Undergraduate Statistics Research Conference](#) (Nov 2023).

Lean On Me National

JUNE 2022 - AUGUST 2022

Data Visualization Intern

- Built 100+ data visualizations (e.g. bar graphs, time series, donut charts, and box-and-whisker plots) using ggplot2 to display on the [Lean On Me National](#) and 12 chapter websites.
- Analyzed 6 years of existing temporal, binary, qualitative, and quantitative Airtable data, producing visualizations such as stress levels before vs. after a conversation, most frequent conversation topics, and conversation trends based on factors like time of week, time of day, duration, and wait time.
- Generated conclusions that effectively highlighted the organization's mental health impact (supplementing its financial and networking efforts) and communicated the service's user activity trends (offering insight into how to improve and update supporter training protocols per chapter).

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Department of Statistics and Applied Probability, UC Santa Barbara

SEPTEMBER 2022 - PRESENT

Undergraduate Learning Assistant

- Hold biweekly drop-in office hours and lead lab sections of 30+ students to tutor students in data science principles (e.g. R programming, probability theory, SQL).
- Facilitate class lectures of 200+ students and online discussion forums. Host review sessions of 50+ students in attendance with organized slides and content.
- Shape course content by constructing biweekly quizzes and compiling 3+ years of course material into a database.

Campus Learning Assistance Services, UC Santa Barbara

SEPTEMBER 2023 - PRESENT

Tutor

- Lead drop-in tutoring sessions in concepts of probability and statistics (e.g. distributions, counting, random variables, Law of Large Numbers, Central Limit Theorems, hypothesis testing, test statistics).
- Collaborate with faculty to discuss methods of enhancement in student learning and engagement.

Lean On Me, UC Santa Barbara

Marketing Coordinator (2023-24 Executive Board)

JUNE 2023 - PRESENT

- Design Instagram posts announcing chapter logistics, advertising social events, and spreading awareness on various mental health topics.
- Lead and coordinate bimonthly chapter meetings. Interview and train new supporters.

Finance Coordinator (2022-23 Executive Board)

MAY 2022 - JUNE 2023

- Networked and presented to 4 communal organizations, raising \$2000+ of funding for the UCSB chapter.
- Managed chapter's annual budget plan, overseeing national fees and payments for campus events/socials.

Supporter

FEBRUARY 2022 - PRESENT

- Attentively listen, practice awareness, and reflect to emotionally support users of the peer-to-peer texting hotline.

SKILLS

Languages: R, SQL, Python, C++, C#, Java

Databases: Unix shell scripting, Git, MySQL

Tools: ggplot2, plotly, tidyverse, Microsoft Excel

Web Technologies: HTML5, LaTeX