

Mackenzie Hanh Cramer

<https://mackenziehanhcramer.github.io/>

+1 (510) 709 7556 | mackenzie.hanh@berkeley.edu | mackenziehanhcramer@gmail.com

EDUCATION

University of California, Berkeley

Cognitive Science Major, GPA 3.72, Honors Candidate

Data Science Major, Domain Emphasis in Cognition

- Semester Abroad Spring 2024 at Yonsei University in Seoul, South Korea

Berkeley, California

August 2021 - Present

WORK EXPERIENCE

Undergraduate Research Assistant

Under David Bamman, NLP Research

- Applied Natural Language Processing (NLP) techniques in Python to analyze datasets, identify patterns and new insights within the fields of digital humanities and cultural analytics.
- Data annotations and organization in order to push for consistency and clarity of guidelines
- Created data visualizations and analyses to understand and track performance and patterns

Berkeley, California

February 2023 - Present

Bancroft Library Student Worker

Under Iris Donovan

- Worked with programs ALMA and AEON in tracking and identifying patron requests
- Handling materials in UC Berkeley archives - paging, barcoding, retrieving, reshelving, and organizing various different items
- Schedule work times and train incoming employees, flexible working in a group

Berkeley, California

July 2022 - Present

UCEAP Intern

Under Hwanho Noh at Barun ICT

- Researched and pitched article ideas regarding data privacy and security
- Wrote monthly columns concerning subjects including AI chatbots modeled after deceased people, low-resource languages and lack of AI accessibility, and the privacy concerns of bioinformatics
- Worked with researchers in business, psychology, and international policy at Yonsei University

Seoul, Korea

March 2024 - June 2024

Summer Data Analytics Intern

Under Stephen Zander at Evolent Health

- Built prediction model for time between biopsy to treatment for various cancers using Python
- Accessed insurance claims and membership claims using SQL servers and developed methodology to extract Time Series measurements
- Collaborated with health care professionals, senior data scientists, and business professionals

Arlington, Virginia

June 2023 - August 2023

Data Analytics Intern

Institute for Youth in Policy

- Data analytics for the data-education division, with focuses on identifying and measuring polarity of different political topics and potential improvements on high school curriculums
- Worked with workshop data, analyzed and produced visualizations using Python and JASP for statistical analysis
- Gave feedback on others' visualizations and suggested improvements for clarity and minimized bias

United States

January 2023 - July 2023

Data Science Mentee

Undergraduate Laboratory of Data Science

- Aided in production of prediction model for number of COVID-19 cases in the US
- Helped source data and extracting trends after cleaning datasets
- Wrote, produced, and organized poster that we presented at poster convention at conclusion of the program and semester

Berkeley, California

September 2021 - June 2022

Monthly Columnist*Under Melissa Dowling at The Kenwood Press***Kenwood, California***October 2020 - April 2021*

- Wrote monthly columns concerning education and the effect of political and social movements on it
- Outlined, wrote, and edited articles and organized timelines for submission and feedback before print
- Collaborated with network and reached out in order to gather opinions and feedback on topics

Cashier*Under Regina Rolland at Wine Truffle Boutique***Kenwood, California***June 2023 - August 2023*

- Served gelato, truffles, and other products to customers
- Worked with the cash register, restocking items, locking up and opening shop depending on shift
- Developed communication skills and abilities to work with and address patron needs

PROJECTS**Maria Carrillo Diversity Improvement Proposal***Mackenzie Cramer, Zoya Ahmed***Santa Rosa, California***July 2020 - December 2020*

- Reached out and worked closely with district officials, school staff, and students within the Santa Rosa City School District
- Developed surveys, got thousands of responses, and researched history of policies in order to suggest new and effective ways to connect and help minority and underserved students
- Detailed district, administrative, and in-class changes to address unequal treatment of students
- Presented 90+ page proposal findings to teachers, administrators, and interested district officials

Youtube Apology Analysis*Mackenzie Cramer, Sabrina Baur***Berkeley, California***August 2023 - December 2023*

- Natural Language Processing (NLP) techniques in order to analyze patterns that arise among Youtube Apology videos
- Used Python while employed NLTK, sequence alignment, coreference chains, and other techniques
- Sourced, collected, and cleaned dataset and produced visualizations and analyses of trends

VOLUNTEERING**Ethnic Studies Curriculum Advisor***With Ethnic Studies Course Curriculum***Santa Rosa, California***January 2021- March 2021*

- Worked on committee focused on High School English Literature Ethnic Studies course, to be deployed by Santa Rosa City School District
- Suggested ideas and topics to teach, promoting texts and books to be taught to students
- Worked with teachers, other students, and aided in course development

Asian American Union*Founder and President***Santa Rosa, California***August 2020- May 2021*

- Created club for Asian students at my high school in order to promote community, support, and diversity inclusion
- Organized meetings, discussions, and worked with staff to establish club
- Sketched, fundraised for, and painted mural symbolizing club and pride for the club's members and their cultures

Universal Community for Change*Member***Santa Rosa, California***August 2020- May 2021*

- Selected to be member for group formed by principal which focused on efforts to improve relations between students and staff
- Brainstormed ideas and acted as ambassador for student body
- Worked with school administration to develop techniques and approaches to improve equity

Summer Program Helper*At the Rincon Valley Regional Library***Santa Rosa, California***May 2018 - August 2018*

- Manned tables and directed library patrons through summer reading program
- Helped sign-ups and dispersed prizes and gifts to children when appropriate levels and goals reached
- Aided in reshelving and clean up of different books and materials

PUBLICATIONS

Speak, Memory: An Archeology of Books Known to Chat-GPT/GPT-4*Kent K. Chang, Mackenzie Cramer, Sandeep Soni, David Bamman**October 2023*

Abstract: In this work, we carry out a data archaeology to infer books that are known to ChatGPT and GPT-4 using a name cloze membership inference query. We find that OpenAI models have memorized a wide collection of copyrighted materials, and that the degree of memorization is tied to the frequency with which passages of those books appear on the web. The ability of these models to memorize an unknown set of books complicates assessments of measurement validity for cultural analytics by contaminating test data; we show that models perform much better on memorized books than on non-memorized books for downstream tasks. We argue that this supports a case for open models whose training data is known.

SCHOLARSHIPS

Redwood Empire Chinese Association**Sonoma, California***March 2021*

Awarded to certain graduating high school seniors of Asian descent with good academic records and community service activities with plans to attend post-secondary education

ADDITIONAL WORK

SMASH Panel**Berkeley, California***Hosted by Anoop Kaur and Maggie Melone-Echiburú**July 2024*

Panel Member for SMASH program at UC Berkeley Campus and discussed experience of college admissions, taking Computer Science courses, and advice for applying and networking

One Nation Together**Sonoma, California***Ep. 5: Zoya Ahmed and Mackenzie Cramer**November 2020*

Guest starred on One Nation Together Podcast hosted by Aarav, Idan, and Reynalda to discuss Universal Community for Change (UCC) and efforts to make our high school campus a safe space for individuals of all racial and sexual identities

SKILLS

Skills:

- Microsoft Excel, Data Entry
- Python, Java, SQL, HTML, *Latex*

Languages:

- Fluent in English
- Beginner Spanish, Korean