MADELYN ROMBERG

Los Angeles, CA| (760)-533-9753 | madelynromberg@g.ucla.edu | [LinkedIn](#) | U.S. Citizen

PROFESSIONAL EXPERIENCE

NASA'S Jet Propulsion Laboratory - *Researcher*   June 2021 - July 2022
Pasadena, California (30hrs/wk)
•Researched statistical relationships between landscape characterizations and their impacts on air quality during fires for air quality forecasts, climate predictions and the formulation of new satellite and aircraft missions
•Processed raw satellite data from Earth Engine Developers and NASA Open Data in Google Colaboratory and Google Earth Engine (Java, Python) to find statistically significant correlations
•Conducted literature review (40+ articles) for methodology, result interpretation, and manuscript development
•Presented weekly presentations on visualized Earth system data to various NASA, JPL, and UCLA departments
•Supplied data for JPL to develop a widely useable analysis and visualization framework using NASA's satellite on Google Earth Engine and to interpret atmospheric composition variations within the JPL's chemical reanalysis

Los Angeles Public Library - *Digital Historian*   Sept. 2019 - March 2020
Los Angeles, California (20hrs/week)
•Built a website and digital archive for various books held in special collections using HTML, CSS, and JavaScript
•Researched history of street names to increase accessibility to public histories
•Facilitated communications between library staff, UCLA faculty, and contributors through weekly presentations

Flip the West - *Campaign and Project Manager*   July 2020 - Jan. 2021
Los Angeles, California (25hrs/wk)
•Overwatched 200+ interns, directly managed 30 members, and ensured scheduling compliance, interpersonal committee communications, and acting liaison between upper management and committee members
•Collected, consolidated, and visualized program data in Python for biweekly progress report meetings
•Trained and oriented 66 new program participants on local and national policy and 2 softwares

EDUCATION

Rithm School - *Software Engineer Intern*   Jan. 2023 - Present
Los Angeles, California (60hrs/wk)

University of California, Los Angeles - *College of Letters and Sciences, College Honors*
Atmospheric and Oceanic Sciences B.S., History B.A.   GPA: 3.89
<u>Relevant Coursework:</u>   Intro & Advanced Computing for Geoscience Data, Statistics, Remote Sensing Processing and Lab for Geologists, Atmospheric: Aerosols, Chemistry and Air Pollution, Dynamics and Thermodynamics; Climate Mitigation, Climate Change and Modeling, Intro to Collaborative Learning
<u>Organizations:</u> Undergraduate Research Department, Undergraduate Learning Assistant Program, Undergraduate Law Journal, Lawyers Without Borders, UniCamp, Pre - Law Society, Field Hockey, Gamma Phi Beta, Chi Epsilon Pi

LEADERSHIP & EXTRACURRICULARS

The Bruin Experiment at UCLA - *President (15hrs/wk)*   Sept. 2018 - June 2022
•Managed 80 tutors and 200+ students from underserved communities by conducting executive and general meetings
•Conducted oversight of curriculum, social media, finances, retention and recruitment
•Controlled $20k budget and increased funding by 63% in accordance with SOLE standards

Project Literacy at UCLA - *Executive Funding Director (15hrs/wk)*   Sept. 2018 - June 2020
•Increased $35k budget by 24% and 28% for 2019 and 2020 to service recipients at eight sites across LA county
•Mentored underserved youth in literacy and English language acquisition through personalized curriculum

SKILLS & OTHER

Skills: Python (MatLab, Pandas, GeoPandas, Seaborn, SciPy. Numpy, Jupyter, etc), Google Colaboratory, Earth System Data Visualization & Analysis, Google Earth Engine, Remote Sensing, Statistics, R, Model & Machine Learning, Tableau

Languages: Native English, Proficiency in Spanish

Publications: UCLA Undergraduate Law Journal (2021)., Journal of World Affairs at UCLA (2021).

Awards: 2021 JIFRESSE Summer Internship Program Recipient, Dean's Honors