

# Jessica Li

(510) 945-8903

[jesstomethoughts.github.io](https://jesstomethoughts.github.io)

[jjessicali@g.ucla.edu](mailto:jjessicali@g.ucla.edu)

## EDUCATION

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University of California, Los Angeles Sept 2019—Jun 2023

- GPA: 4.0 | *B.S. in Computational & Systems Biology, Minor in Digital Humanities (summa cum laude)*
- Thesis: “Evaluating the CDC’s Social Vulnerability Index (SVI) and Healthy Places Index (HPI) for Native Hawaiian and Pacific Islander (NHPI) Populations in California” (2023)

## RESEARCH EXPERIENCE

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*Data Assistant*, Modern Endangered Archives Program (MEAP) Data Lab Mar—Jun 2023

- Trained ML model in OCR to automate transcription of 3000+ images of handwritten Portuguese farm ledgers to digitized data tables using Tesseract and OpenCV
- Cleaned data from 7+ collections and identified geographical and thematic trends via NLP

*Research Assistant*, Native Hawaiian and Pacific Islander Data Policy Lab Aug 2021—Jun 2023

- Processed and analyzed a million+ rows of data on COVID-19 and social determinants of health for Native Hawaiian and Pacific Islander (NHPI) populations with R and Python
- Collaborated on 5 dashboards and linear regression models that disaggregated health data for NHPs, NHPI subgroups, and Southeast Asian subgroups by county

*Research Assistant*, Ritz Epidemiology Lab Jun—Sept 2021

- Designed 3 new Access databases and logged 100+ tables of demographic data for 10,000+ participants in study analyzing correlations of Parkinson’s with the gut and environment

*Research Assistant*, UCLA Depression Grand Challenge Sept 2019—Sept 2020

- Reviewed 700+ unique pieces of online cognitive behavioral therapy modules
- Conducted independent research examining the link between mental health and homelessness in college student populations

## PUBLICATIONS & PRESENTATIONS

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- **Li, J.** (2023). *How Paul Landacre’s Wood Engravings of the Coachella Valley Region Reflect the Erasure of Indigenous Populations in an Emerging Capitalist Framework*. UCLA: Library. Retrieved from <https://escholarship.org/uc/item/9wg9w8z4>
- **Li, J.** (2022). *Redefining Power Structures Surrounding Healthcare and Data Privacy*. Aleph, UCLA Undergraduate Research Journal for the Humanities and Social Sciences, 19. <http://dx.doi.org/10.5070/L619158734>. Retrieved from <https://escholarship.org/uc/item/48s3n1ws>
- Computational and Systems Biology Commencement Speaker, June 2023
- **Li, J.** *Evaluating the CDC’s Social Vulnerability Index (SVI) and Healthy Places Index (HPI) for Native Hawaiian and Pacific Islander (NHPI) Populations in California*, UCLA Computational Biology Poster Session, Los Angeles, CA, May 2023.
- *Native Hawaiian and Pacific Islander Data Policy Platform Launch*, Virtual, November 2022

- Chang, R., **Li, J.**, Morey, B., Tulua, A., Thomas, K., Penaia, C., Ponce, N. *The Native Hawaiian and Pacific Islander Data Dashboard: Creation, Implications, and Future Directions*;  
Morey, B., Tulua, A., Thomas, K., Penaia, C., Chang, R., **Li, J.**, Ponce, N. *Democratizing Native Hawaiian and Pacific Islander data: examining community accessibility of data for health and the social determinants of health*, American Public Health Association Annual Meeting and Expo, Boston, MA, November 2022

## PROFESSIONAL EXPERIENCE

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*BigData Associate Software Engineer, ServiceNow* Sept 2023—Present

- Implementing Python scrapers to send metrics to Prometheus and monitor 50+ applications across 5 clusters and overall cluster health. Building 5+ Grafana dashboards for visualizing the health data
- Optimized on-call efficiency from 10+ mins to 1 min to retrieve pipeline info by automating workflows of 500+ pipeline components by collecting metadata and developing a ML model to predict data flow
- Placed in the top 3 out of 200+ projects in company-wide Generative AI Hackathon

*BigData Software Engineering Intern, ServiceNow* Jun—Sept 2022

- Designed and developed new widget built in React.js to visualize 100+ pipelines and 700+ Jenkins Jobs to improve on-call efficiency

*Co-Founder & Finance Director, LA Community Engagement and Services* May 2021—Jun 2023

- Established long-term service opportunities for 50+ UCLA and community college students, secured \$30k+ in grants to fund volunteering projects and donation drives
- Analyzed 8+ years of food pantry data and created 2 accessible dashboards on service utilization by household size, geography, race, etc. for the Karsh Center

*Peer Learning Facilitator, Academic Advancement Program* Sept 2020—Jun 2023

- Led biweekly learning sessions for historically underrepresented students in programming and organic chemistry courses, increasing exam scores by more than one letter grade and fostering friendships
- Developed course-specific interactive learning websites and created 50+ pages of worksheets

*Co-Founder, Find My Vax Santa Clara* Mar—Jun 2021

- Developed React-based website and Twitter bot for county residents to centralize COVID-19 vaccine appointment access after compiling information from 20+ website scrapers, featured in SF Chronicle

## HONORS & AWARDS

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UCLA Library Prize for Undergraduate Research	2023
UCLA Internet Research Initiative Prize Winner	2022-2023
Ahmanson Research Scholarship	2022

## SKILLS & INTERESTS

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Languages: Chinese (bilingual proficiency), Spanish (limited working proficiency)

Programming: Python (NumPy, Pandas, TensorFlow, OpenCV, Tesseract, Selenium, etc.), R, JavaScript (React.js), HTML, CSS, SQL, Java, C++

Software: Tableau, Grafana, Prometheus, Adobe Suite (Photoshop, Illustrator, Indesign)

Interests: running/hiking up mountains, piano/guitar/ukulele, and growing an organic garden