

Nathan Chan

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EDUCATION

Bachelor of Science Double Major in **Computer Science** and **Statistics**, *University of California, Davis* Jun 2021
GPA 3.7/4.0, Dean's Honor List, Minor in Political Science, Judicial Council Member (student government)

SKILLS

Languages: **Python** (pandas, numpy, seaborn, matplotlib, nltk), **R** (ggplot2, stringr, dplyr, tidyr, ggmap), **SQL**
Data Science: Jupyter notebooks, visualizations, web scraping, machine learning, big data processing, data structures
Statistics: statistical learning, linear/multiple regression, probability, analysis of variance (ANOVA)
Other: Excel, Stata, SPSS, C++, Unix, HTML, CSS

EXPERIENCE

Data Analyst, *Hibel Lab and HERD Lab, Center for Mind and Brain, UC Davis* May 2019 - Present

- Write R scripts to parse, clean, and manage hormone, heartbeat, and survey data for social science researchers.
- Built Linux pipeline to format brain imaging data using Python.
- Redesigned website for California Families Project (www.californiafamiliesproject.org).

Course Assistant, *Statistics 103 and 106, UC Davis* Apr 2019 - Present

- Grade and record homework assignments from 150 students in upper-division statistics courses.

Data Assistant, *Alumni Relations, UC Davis* Jan 2019 - Oct 2019

- Adjust and add entity information in database of 1+ million people.
- Verify donation and gift amounts and upload receipts to database. Sort and shred confidential information.

Research Assistant, *Asian American Center on Disparities Research, Psychology, UC Davis* Sep 2017 - Jun 2018

- Designed, wrote, presented research poster at Undergraduate Research Conference at UC Davis.
- Performed data analysis with sample size of 425 students (ANOVAs, multiple regression in SPSS).

PROJECTS

SF Chronicle (Python) Feb 2019

- Scrape sfchronicle.com for article information, like title, author, and date using html requests.
- Analyze website for most-used words using nltk for language processing and matplotlib for visualizations.

Baseball Payrolls (SQL and Python) Feb 2019

- Query data from database (SQL), create graphics, and analyze (Python: numpy, pandas, seaborn, matplotlib).
- Found that payroll increases as performance, win-rate, and home game attendance increases.

Predict Handwritten Numbers (R) Dec 2018

- Predict handwritten numbers with 95% accuracy. Coded machine learning algorithm from scratch.

Craigslist Apartment Listings (R) Oct 2018 - Nov 2018

- Clean, explore, and analyze apartment listings web-scraped from Craigslist (ggplot2, ggmap, stringr).
- Found different apartment costs in LA, Sacramento, and SF and differences depending on price and location.

AWARDS

Certificate for outstanding achievement in presentation of research, UC Davis Apr 2019

Eagle Scout, Boy Scouts of America May 2016