

Nathan Chan

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EDUCATION

Bachelor of Science, Statistics (Statistical Data Science), *University of California, Davis* Jun 2020 (expected)
Minor in Political Science, Dean's Honor List, Judicial Council Member (student government), GPA 3.7/4.0

SKILLS

Languages: Python, R, SQL

Other: Excel, Stata, SPSS, C++, Unix, HTML, CSS

Data Science: Jupyter notebooks, visualizations (ggplot2, seaborn, pandas, numpy), web scraping, machine learning, big data processing, data structures, data cleaning

EXPERIENCE

Data Analyst, *Hibel Lab and HERD Lab, Center for Mind and Brain, UC Davis* May 2019 - Present
Write R scripts to clean hormone, heartbeat, and survey data for social science researchers. Built Linux pipeline to format brain imaging data. Redesigned website for California Families Project (www.californiafamiliesproject.org).

Course Assistant, *Statistics 103 and 106, UC Davis* Apr 2019 - Present
Grade and record homework 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 through and shred confidential financial 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

Scraping and Analyzing the SF Chronicle in Python Feb 2019
In Python, scrape sfchronicle.com for article information, like title, author, and date using html requests. Analyze website sections for most-used words using nltk for natural language processing and matplotlib for visualizations.

Querying and Analyzing Baseball Payrolls in SQL and Python Feb 2019
In SQL and Python, query data from database, create visualizations, and analyze. Used numpy, pandas, seaborn, and matplotlib for Python. Found that payroll increases as performance, win-rate, and home game attendance increases.

Predict Handwritten Numbers in R Dec 2018
A set of R scripts that predicts handwritten numbers. Uses k-nearest-neighbors machine learning algorithm coded from scratch to predict numbers with 95% accuracy.

College Scorecard Data Exploration and Analysis in R Oct 2018
Explored and analyzed data on US colleges using R and ggplot2. Found differences in test scores between public and private schools, the impact of test scores on earnings, and differences in in-state and out-of-state tuition across states.

Analyzing Apartment Listings from Craigslist in R Oct 2018 - Nov 2018
In R, clean, explore, and analyze apartment listings web-scraped from Craigslist. Used ggplot2, ggmap, and stringr. Found different apartment costs in LA, Sacramento, and SF and how apartments differ 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