

Nathan Chan

nathanjchan2@gmail.com – 650-430-3780 – www.nathanjchan.com – www.github.com/nathanjchan

EDUCATION

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

SKILLS

Languages: Python, R, SQL, C++

General: Data analysis, data science, data cleaning, machine learning, big data processing, data graphics (ggplot2, seaborn, pandas, numpy), data structures

EXPERIENCE

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

Course Assistant Apr 2019 - Present
Statistics 103 and 106, UC Davis
Grade and record homework from 150 students in upper-division statistics courses.

Research Assistant Sep 2017 - Jun 2018
Asian American Center on Disparities Research, Psychology, UC Davis
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). Administered a survey and interview to 30 study participants individually.

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.

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