

## Nathan Chan

nathanchan2@gmail.com – 650-430-3780 – [www.linkedin.com/in/nathanjchan](http://www.linkedin.com/in/nathanjchan) – [www.github.com/nathanjchan](http://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. Redesigned website for California Families Project ([www.californiafamiliesproject.org](http://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