

Tyler Chia

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EDUCATION

Incoming Masters of Data Science Student at the University of California, Irvine Expected Grad: **Fall 2023**
University of California, Santa Barbara Grad: **Spring 2022**
B.S. in Statistics and Data Science + B.A. in Economics GPA: **3.80/4.00**
Minors: Spatial Science, Professional Certificate in Technology Management
Activities: Letters and Science Honors Program, Honors Program Mentor, Data Science UCSB Club Mentor, Technology Management Program, UCSB Resilience Summit and Certificate Program
Awards: Dean's Honors (L&S)-(Spring 2020, Fall 2020, Winter 2021, Fall 2021), Awarded \$5000 to participate in UCSB's NSF-funded Central Coast Data Science Fellowship for the 2021-2022 academic year
Relevant Coursework: Regression Analysis, Statistical Data Science, Statistical Machine Learning, Bayesian Data Analysis
Certifications: Python For Data Science and Machine Learning (UDemy), Tableau Fundamentals (DataCamp), Machine Learning Fundamentals in R (DataCamp), Shiny Fundamentals (DataCamp), NLP in Python (DataCamp)

WORK EXPERIENCE

Data Science Fellow | *Central Coast Data Science Partnership* | *Santa Barbara, CA* **September 2021-June 2022**

- Took UCSB's data science capstone series, which is a year-long series of classes hosted by both the statistics and computer science departments
- Participated in committees that focus on data science related event planning, tutoring, and outreach
- Collaborated with other fellows in assisting Carpe Data, a local, insurance technology company with their data science project related to classifying fraud based on HTML data

Data Analytics Intern | *UCSB Baseball Analytics Team* | *Santa Barbara, CA* **September 2021-June 2022**

- Assisted the UCSB D1 baseball team with research into topics of interest through data analysis and machine learning in R and Python as a way to improve player performance
- Developed various RShiny web apps that display visualizations of individual player statistics based on position
- Completed weekly scouting reports on opposing teams, assisting the team in finishing with a 43-12 regular season record, a Big West Championship, and a playoff berth at regionals

Undergraduate Research Assistant | *UCSB Hegarty Spatial Thinking Lab* **April 2021-June 2022**

- Assisted navigational and spatial thinking projects with data cleaning, statistical analysis and data visualization
- Cleaned and reformatted experimental data from gpx files, using Python and R for hundreds of participants
- Calculated total distance per trial and efficiency statistics in addition to plotting their paths over map images

Undergraduate Research Assistant | *UCSB Geography Department* **September 2020-May 2021**

- Utilized RStudio to characterize hydrologic regions of the United States by comparing data from the NOAA National Water Model to USGS streamflow gauges
- Developed and finalized a dataframe containing 169,776 observations specific to each USGS site, model, and recurrence interval
- Created several interactive plots and web applications using Tableau and RShiny to display data

PROJECT HIGHLIGHTS

Predicting the 2016 Presidential Election Based on Demographic Data **March 2021-June 2021**
Predicting the 2021 NBA Draft **July 2021**
Trump or Biden (NLP Tweet Classifier) **December 2021**
UCSB D1 Baseball Player Profile App (RShiny Web App) **January 2021-February 2021**

SKILLS

Language: R, Python, SQL, C++, SAS
Analysis: NumPy, pandas, tidyverse, scikit-learn, caret,
Visualization: ggplot2, matplotlib, seaborn, plotly, tableau, RShiny

Development: RMarkdown, Github, MS Office, HTML, CSS, Jupyter
Mapping: sf, raster, leaflet, OpenStreetMap, whitebox