Tyler Chia

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EDUCATION

University of California, Santa Barbara   Expected Grad: **Spring 2022**

B.S. in Statistics and Data Science   **GPA: 3.78/4.00**

B.A. in Economics

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), 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)

WORK EXPERIENCE

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

- Taking UCSB's data science capstone series, which is a year-long series of classes hosted by both the statistics and computer science departments
- Participating in committees that focus on data science related event planning, tutoring, and outreach.
- During Winter and Spring quarters, I will be working with other fellows in assisting a local, sponsoring company with their data science related projects and research

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

- Assisting 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
- Developing RShiny web app that displays the relationship between player workload and pitching variables over time
- Presenting progress at weekly meetings in addition to assisting with weekly scouting reports on opposing teams

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

- Assisting with data analysis of experimental data of an honors student's thesis project
- Working with raw experimental data in R to perform exploratory data analysis including visualizations, regression analyses, and statistical tests

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**

- Predicted whether or not Donald Trump would win a specific county
  - Linear Regression: 0.09 RMSE, Logistic Regression: 91.4%, Random Forest: 92.2%, Adaptive Boosting: 92%
- Utilized K-Means clustering to cluster the data and see if there were any distinct groups driven by specific demographic variables

SKILLS

Language: R, Python, SQL, C++, SAS	**Development**: RMarkdown, Github, MS Office, HTML, CSS, Jupyter
Analysis: NumPy, pandas, tidyverse, scikit-learn, caret	
Visualization: ggplot2, matplotlib, seaborn, plotly, tableau, RShiny	**Mapping**: sf, raster, leaflet, OpenStreetMap, whitebox