# Tyler Chia

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## Objective

Analytical and detail-oriented student with experience in data analysis, machine learning, and visualization. Seeking to leverage skills in statistical programming and predictive modeling to drive impactful insights and solutions.

## Education

**University of California, Los Angeles**, B.S. in Statistics and Data Science — September 2022 – June 2026

- **GPA:** 3.655/4.0
- **Coursework:** Data Science with R, Statistical Programming with R, Python for Data Science, Data Analysis and Regression, Probability, Mathematical Statistics, Linear Models, Statistical Models and Data Mining, Computational Statistics with R, Computer Science with C++, Computation and Optimization for Statistics, Practice of Statistical Consulting

## Experience

**Incoming Data Planning Analyst Intern** — June 2025
Lumen Technologies — Los Angeles, CA

**Sports Science Intern** — January 2025 - Present
UCLA Football — Los Angeles, CA

- Designing a SQLite database to store and analyze player performance data, integrating strength metrics and tracking insights
- Collecting and analyzing player data using Catapult GPS systems and VALD machines, providing actionable insights to coaches for optimizing training and enhancing performance

**Data Consultant** — September 2024 - Present
UCLA Football — Los Angeles, CA

- Developing a comprehensive playbook of NCAA Football teams using PFF data and machine learning algorithms to enhance game preparation for coaches and front office personnel
- Integrating the playbook into an R Shiny application, providing real-time filtering options to enable detailed scenario analysis and strategic planning across NCAA Football teams

**Data Analyst Intern** — June 2023 - September 2024
Riverside County District Attorney's Office — Riverside, CA

- Created interactive crime heat maps by scraping and geocoding police reports, improving visualization of crime trends in location, type, and time
- Designed an R Shiny application using fuzzy matching and Jaro-Winkler distance to classify crime types with over 50% increased accuracy
- Developed predictive models (logistic regression, gradient boosting, random forests) to assess recidivism probabilities, aiding plea deal decisions and legislative recommendations on bail reform and rehabilitation programs
- Automated data collection, analysis, and reporting processes using Excel, Power BI, VBA, and PowerPoint, enhancing efficiency and accuracy for case statistics

**Data Analyst** — September 2023 - June 2024
UCLA Bruin Sports Analytics — Los Angeles, CA

- Analyzed the 2024 NBA Defensive Player of the Year Award recipient using Gradient Boosting machine learning algorithms and summarizing the findings in an engaging article – Medium Article Link

## Technical Skills

**Languages:** Python 3, R, C++, SQL

**Technologies:** GitHub, R Shiny, Microsoft Power BI, Tableau, Microsoft Office, Streamlit, ArcGIS, Jupyter (Lab & Notebook), Visual Studio Code, PyCharm, RStudio, XCode, LaTeX, Overleaf, VBA, Markdown, Quarto

## Awards & Certifications

**IBM - Python for Data Science, AI & Development** | Issued September 2023 by Coursera
**Eagle Scout** | Boy Scouts of America | Awarded May 2022
**Presidential Volunteer Service Award (Gold)** | AmeriCorps | Awarded 2019, 2020, 2021, 2022