

TRENT BELLINGER

657-237-4028 | tsb0122@gmail.com | <https://www.linkedin.com/in/trent-bellinger-84041a22b/> | <https://github.com/trentbellinger>

EDUCATION

University of California, Los Angeles (UCLA)

BS, Statistics and Data Science | BS, Applied Mathematics with Specialization in Computing

Los Angeles, CA

Expected June 2025

GPA: 3.96/4.00

Relevant Coursework: Python with Applications, Programming in R, Statistical Models and Data Mining, Data Analysis and Regression, Linear Models, Optimization, Linear Algebra, Mathematical Statistics, Applied Numerical Methods, Analysis

SKILLS

- **Python:** Numpy, Pandas, Scikit-Learn, Tensorflow, Keras, Matplotlib, Plotly, Scrappy, Jupyter Notebook, JAX, Quarto
- **R:** Ggplot2, Shiny, Dplyr, TidyR, Stringr, Table, Filter, Glmnet, RandomForest, Mice, Ggmap, MASS, RStudio
- **SQL, C++, MATLAB, GitHub**
- Data Analysis and Visualization, Machine Learning, Regression/Classification Models, Deep Learning, App Development, Databases, Querying Data, Hypothesis Testing, Probability, Team Leadership, Analytic Writing, Microsoft Office

RELEVANT EXPERIENCE

Southern California Edison

Data Science Intern

Pomona, CA

June 2024 - Present

- Collaborate with engineers to analyze hundreds of ignition events relating to insulator failures on distribution poles
- Collect and engineer weather and insulator data from 5 diverse sources, applying **SMOTE** to address class imbalance
- Develop a **random forest model** using **Python** and to predict areas at high risk for insulator ignitions with **88% accuracy**
- Guide proactive insulator replacement by deploying the model to identify high-risk areas

UCLA Baseball

Data Consulting Team Lead

Los Angeles, CA

June 2024 - Present

- Supervise a team of 15, training them to analyze **Trackman data** and directing all **data-driven projects** for UCLA baseball
- Work with coaches to understand their requirements and deliver insights using **data analysis and modeling** techniques
- Implement insights created by team members into an interactive app using **Shiny in R** for easy usage by coaches

Data Consultant

October 2023 - June 2024

- Developed an **interactive app** using **Shiny in R** using datasets from **Trackman** (**gigabytes** of data) to construct charts and pitching overlays, allowing the UCLA baseball coaches to easily see trends in pitching, hitting, and fielding data
- Trained a **random forest regression model** using a **Boruta algorithm** for variable selection to quantify pitcher success by predicting **advanced baseball statistics** such as wExecution+ and xRV, visualizing findings using **ggplot2 in R**

UCLA Football

Data Consulting Team Lead

Los Angeles, CA

June 2024 - Present

- Manage a team of 15, mentoring them in utilizing **PFF data** and overseeing all **data projects** for UCLA football
- Coordinate directly with coaches to assess needs and assign **data analysis and modeling projects** to team members
- Train **machine learning models** in **Python** to guide coaching decisions and predict opponents' plays in real time

Data Consultant

March 2023 - June 2024

- Facilitated UCLA football's game planning and self-scouting by providing **data-driven insights** to coaches
- Established a **SQL** database to efficiently collect, store, query, and transform datasets containing millions of observations
- Designed an **interactive app** using **Shiny in R** to automatically write **SQL** queries, granting coaches easy access to data for all college football teams and boosting productivity of opponent scouting

UCLA DataRes

Data Blog Project Lead

Los Angeles, CA

September 2022 - March 2023

- Led 2 groups of 5 other students, teaching how to import, clean, and visualize datasets using **R** and **Python**
- Produced **data visualizations** using **ggplot2 in R**, cleaning and analyzing datasets with thousands of entries
- Developed a **multivariate polynomial regression model** to forecast housing prices in Los Angeles county
- Published 2 analytical articles on the UCLA DataRes website

AWARDS / HONORS

- Dean's Honors List at UCLA 8 Quarters
- ALD|PES National Honors Society at UCLA Membership January 2022 - Present
- University of Glasgow Physics Award (best-performing physics student) August 2022