

AVERY ROBINSON

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Education

University of California, Los Angeles

Los Angeles, California

Bachelor of Science in Statistics

Expected Graduation: Dec 2021

- Dean's Honor List — Cumulative GPA: 3.92
- Technical Skills: Python, R, SQL, Tableau, Microsoft Excel

Work Experience

UCLA Institute of the Environment and Sustainability

January 2021 - present

Student Researcher under Professor Karen McKinnon (Statistics & A&ES)

- Statistically analyze the dynamic roles of Earth's energy budget components in context of the production and continuation of extended anomalously high temperatures
- Build Python scripts to streamline analytical processes such as analyzing statistical moments (mean, variance, skewness, kurtosis) of climatological variables through time, calculating anomalies, and graphing findings
- Co-authoring paper on the role of the land surface and atmospheric circulation on the initiation and evolution of heatwave events in North America

Wells Fargo

June 2021 - August 2021

Enterprise Analytics and Data Intern

- Developed analytical dashboards to perform enterprise-wide complaint root cause analysis by identifying complaint patterns in products, lines of businesses, case owners, and specific teams
- Created an interactive network graph in Python to visualize team structure, hierarchy, and cross-team collaboration across the organization to assist in understanding of Enterprise workflow and structure

Projects

Course Performance Dashboard — GH link: https://github.com/averyrobinson98/course_performance_dashboard

- Developed an interactive R Shiny Dashboard to aid UCLA students in future course planning
- Includes suggested future courses as well as grade distributions dependent on the student's major, major department, and grades in previous courses

Elite Gymnastics Scoring Trends — Article link: https://www.bruinsportsanalytics.com/post/elite_gymnastics

- Web-Scraped a decade of competition scoring data from USA Gymnastics to investigate the validity of common scoring notions throughout the progression of each olympic cycle
- Analyzed scoring combinations to determine how a gymnast could adjust her training to optimize ranking

TV Series Script Text Mining — GH Pages Link: <https://averyrobinson98.github.io/ST-series-Text-Mining/>

- Transformed 11,272 lines of raw script data from Netflix's *Stranger Things* into tidytext format for EDA
- Engineered 34 features to create relevant variables for sentiment analysis and predictive modeling
- Investigated variation in episode rating via random forests, regularization methods, and stepwise selection

Flight Cancellation Classification — GH Link: https://github.com/averyrobinson98/Flight_Cancellation

- Analyzed 98,893 flights across the United States to explore characteristics that predict flight cancellation
- Implemented random forests, XGBoost, SVMs, and discriminant analysis to identify best performing models
- Tuned random forests parameters to improve testing accuracy from 94% to 99.85% to achieve final model

Additional

Extracurriculars: Data Science Union at UCLA, Data Journalist at Bruin Sports Analytics, Toastmasters

Hobbies: Learning French, Cooking, Competitive gymnastics (2006-2014), Au Pair (Bordeaux, Fall 2016)