Claire Nabours

Active Security Clearance: Secret
Los Angeles, CA | (636)-515-5395 | cnabours@ucla.edu | Portfolio: https://claire-nabours-personal-website.netlify.app/

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES Expected Graduation: **June 2026**
Bachelor of Science in Statistics and Data Science *GPA: 3.62*

- **Relevant Coursework:** Statistical modeling and regression, experimental design and analysis, probability and mathematical statistics, data mining and predictive modeling, computational statistics and Monte Carlo simulation, statistical programming (R/Python), Programming in C++, machine learning, optimization and simulation methods.

CERTIFICATIONS & TECHNICAL SKILLS

Certifications: Alteryx Designer Core Certification *Achieved: August 2025*
Skills: Python, R, SQL, Power BI, Tableau, Simulation, Modeling, Optimization, Neural networks, Probability, Statistics, & Experimental design.

INTERNSHIPS

Reinsurance Group of America *Summer of 2025*
Business Architecture Intern

- Contributed to migrating and modernizing legacy valuation systems onto enterprise data platforms (EDP), improving scalability, maintainability, and overall performance while ensuring alignment with enterprise architecture standards.
- Designed, developed, and optimized financial and operational reporting dashboards by transitioning from Tableau to Power BI, implementing DirectQuery for large datasets, enabling real-time insights, and improving decision-making efficiency across business units.
- Optimized data pipelines through advanced Alteryx workflows, incorporating robust error handling, validation logic, automated quality checks, and seamless SQL and ETL integration to ensure high data integrity, reliability, and process efficiency in valuation reporting.
- Collaborated cross-functionally with business strategy, analytics, and actuarial teams to streamline data workflows, standardize reporting logic, and strengthen the technical infrastructure supporting enterprise-wide data science initiatives.

Northrop Grumman *Summer of 2024*
College Technical Intern

- Refactored and optimized C++ simulation code within AFSIM to enhance radar search algorithms, improving rasterization efficiency and increasing area coverage by ~30% through parameter tuning, algorithmic redesign, and advanced performance optimization techniques.
- Conducted radar performance analysis using Python, deriving novel spatial coverage metrics not previously available, performing multivariate analysis, and identifying critical factors influencing search effectiveness to inform algorithmic enhancements.
- Designed and implemented a digital controller prototype integrating real-time weather data APIs, modeling dynamic pre-flight environmental conditions, generating interactive visualizations, and supporting data-driven pilot decision-making.
- Created official technical documentation based on extensive research on search methods and AFSIM, defining radar accuracy and efficiency metrics, and outlining our Python-based calculation methodology for AFSIM.
- Developed official technical documentation and standardized methodologies based on research of radar search strategies and AFSIM simulations, defining quantitative metrics for radar accuracy and efficiency, and detailing Python workflows for reproducible results.

RELEVANT PROJECTS

Election Winner Classification Report *2025*
UCLA Statistics 101C | Tools & Skills: R, EDA, Data Visualizations, XGBoost, SVM, Logistic Regression, LDA, QDA, KNN, Naive Bayes

- Built and tuned machine learning models in R to predict 2020 U.S. county election winners using demographic and economic data. Achieved 97% ROC AUC and identified education, income, and urbanicity as key predictors of voting outcomes.

Framing Food and Authority: Nutrition Influencers and Audience Reactions *2025*
UCLA Digital Humanities 120| Tools & Skills: Python, BERT, VADER, LDA, Network Analysis, Sentiment Analysis, Data Visualization, Mapping

- Analyzed tweets and replies using network analysis, topic modeling (LDA), and context-aware sentiment scoring (BERT/VADER) to quantify rhetorical authority and framing in contested nutrition discourse, and created an interactive website for non-technical audiences.

LEADERSHIP & EXTRACURRICULARS

UCLA Competitive Sports *2023-present*
General Manager

- Manage intramural check-ins, provide customer support, track game scores, and assist with event setup and teardown.

ADDITIONAL ACTIVITIES & INTERESTS

- Activities: Kappa Kappa Gamma Sorority.
- Interests: AI, Data Science, Machine Learning, Neural Networks, Software Development, Simulation, Consulting, and Yoga.