

# Claire Nabours

Active Security Clearance: Secret

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

Expected Graduation: **June 2026**

*Bachelor of Science in Statistics and Data Science*

*GPA: 3.61*

- **Relevant Coursework:**

Applied Statistical Programming and Modeling  
Experimental Design and Analysis  
Monte Carlo Simulation

Theoretical and Applied Probability and Statistics  
Introduction to Computer Science with C++  
Machine Learning and Predictive Modeling

## 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*

- Contribute to the migration and modernization of legacy valuation systems onto enterprise data platforms (EDP), improving scalability and system performance.
- Built and optimized financial and experience reporting dashboards by migrating from Tableau to Power BI with DirectQuery on large datasets, enabling real-time insights.
- Optimized data pipelines using Alteryx workflows with advanced error handling, logic checks, and SQL/ETL integration to ensure accuracy and reliability across valuation reporting processes.
- 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 C++ simulation code in simulation software (AFSIM) to develop and optimize radar search algorithms, improving rasterization efficiency and increasing area coverage by ~30% through parameter tuning and shape redesign.
- Analyzed radar performance data using Python, calculating spatial coverage metrics and performing analysis to identify key variables influencing search effectiveness and guide algorithmic improvements.
- Developed a digital controller prototype integrating real-time weather data APIs to model pre-flight environmental conditions and generate intuitive visual outputs, enhancing pilot decision-making support.
- 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.

## 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.

### Masked Miles: COVID-19 and Human Mobility

*2024*

*UCLA Digital Humanities 101 | Tools & Skills: R, Python, Tableau, WordPress, Flourish, Data Visualizations, Data Storytelling*

- Designed a data-driven narrative and website using R, Python, Tableau, and WordPress to visualize global mobility trends during the COVID-19 pandemic.

## LEADERSHIP & EXTRACURRICULARS

### UCLA Competitive Sports

*2023-present*

*General Manager*

- Check in intramural participants to their games and provide customer service to attendees and athletes.
- Keep scores and times for games and help set up and tear down equipment and tents for events.

## ADDITIONAL ACTIVITIES & INTERESTS

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