

# Nathan Kim

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## EDUCATION

### Sunny Hills High School

GPA: 4.8/4.0, Valedictorian, SAT: 1520 (Math: 800, Reading and Writing: 720)

Orange County, CA

September 2018 - June 2022

### University of California, Los Angeles (UCLA)

B.S. Statistics and Data Science / B.A. Economics; Cumulative GPA: 3.84; Major GPA: 4.0

Los Angeles, CA

September 2022 - June 2026

#### Relevant Coursework:

- Mathematics: Multivariable Calculus, Linear Algebra, Differential Equations, Probability, Discrete/Continuous Random Variables
- Statistics: Linear Regression, Polynomial Regression, Traditional Inference, Experimental Design, Regression Diagnostics, Randomization Tests, Data Visualization, Analysis of Covariance, Multicollinearity, Transformations, Standardized Residuals

## SKILLS

**Coding:** R Code (Intermediate), R Shiny, Python (Proficient), Matplot, Panda, NumPy, C++ (Basic), Excel, SQL (Basic), Tableau

**CPR/AED/First Aid Certified (Lifeguard at Splash La Mirada)**

## WORK EXPERIENCE

### Federal Reserve Bank of Kansas City

Kansas City, MO

Analyst Intern

June 2024 - August 2024

- Serve as a "consultant" to management by completing/recommending projects and implementing new programs for the Bank to utilize
- Conducts diverse projects within the Bank that range from quantitative analytical assignments, such as assisting with budget variances and tracking operating costs, to creative tasks, such as writing or compiling presentations/research for the Product Strategy Department
- Contributes to bank-wide objectives by developing specific target areas and witnessing the project review process by upper management

### University of California, Los Angeles (Resident Government Council)

Los Angeles, CA

Treasurer

September 2023 - June 2024

- Oversees the building finances of the residential life which includes: budgets, reimbursements, and building funds
- Advocate building wide events based on the students' interests and needs with the collaboration of residential assistants
- Manage projects and event programming through the Funding and Advisory Board while documenting the contents of the meetings

### University of California, Los Angeles (New Student Academic Program)

Los Angeles, CA

New Student Advisor

May 2023 - December 2023

- Academically counsel 200+ Math and Statistics students on behalf of the Undergraduate Education on first year enrollment
- Facilitate group discussions and gave presentations to 400+ students on topics ranging from the academic environment, student diversity, Title IX/sexual violence, alcohol and substances abuse/sexual health, and student services at UCLA

## LEADERSHIP / EXPERIENCES

### Bruin Sport Analytics (University of California, Los Angeles)

Los Angeles, CA

Financial Head

September 2024 - June 2025

- Developing and managing the club's budget, ensuring all expenses were accounted for and aligned with the club's goals and priorities
- Working with external companies that provide financial resources while delivering tangible benefits to the sponsors of the club
- Preparing regular financial reports for club members and leaders, providing transparent insights into the club's financial performance

Statistical Consultant

September 2023 - June 2024

- Create projects that analyzes a pitcher's success through their choice of pitches (Stuff+, Location+, Pitching+)
- Create visualizations and models for baseball hitting and pitching tendencies using advanced baseball metrics/statistics

### West Point US Military Academy Summer Leadership Experience

West Point, New York

Cadet

May 2021 - September 2021

- Experience the military from all angles, including high-tech education, team building, and realistic military training
- Develop invaluable leadership skills, fostered discipline, and developed a strong sense of teamwork and camaraderie

### Research Proposal Endorsed by Professor Brendon Beirne

Irvine, CA

Researching Assistant

December 2021 - January 2022

- Conduct comprehensive research and author a research proposal on the effectiveness of the Pritikin diet on the physique of athletes
- Collaborate with Professor Beirne who obtained his MA, PHD, and Post Doctorate from NYU and WashU in English
- Analyze and interpret research data using past experiments, resulting research finding about dietary effects on athletes

## PROJECTS

### Predictive Economic Model on overall GDP

January 2024 - March 2024

- Used regression modeling to investigate whether personal connection expenditure, median price of household, federal debt, and federal expenditure on interest payments correlate with the overall GDP
- Analyzed using R with anova testing, multiple linear modeling, transformation, multicollinearity, and predictive ability

### Modeling Pitching Characteristics to Predict a Pitch's Effectiveness (Stuff+)

September 2023 - February 2024

- Evaluated the UCLA pitcher's pitch by taking into account of a pitch's velocity, spin axis, horizontal/vertical break, and more
- Results suggested that pitches can keep the movement profile on sliders while throwing it at a higher velocity or adding more sweep
- Developed using R and Python with sklearn, pandas, numpy, and xgboost for data analysis and data manipulation