

Diego Osborn

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EDUCATION

University of California, San Diego

Sep 2022 - Jun 2026

Bachelor of Science - BS, Data Science; Minors in Economics and Mathematics

Organizations: Triton Ball Sports Analytics Club, Data Science Student Society

Honors: UCSD Eleanor Roosevelt College Honors Program, Provost Honors (3x)

Relevant Coursework: Statistical Modeling and Inference, Machine Learning and Probabilistic Methods, Optimization Methods and Linear Algebra, Data Management and Scalable Systems

EXPERIENCE

Baseball Analytics Intern | UC San Diego Baseball

Feb 2023 – Present

- Automated previously time-consuming opponent scouting report process to enhance game preparation and save coaches and staff tens of hours of manual work every season.
- Developed pitch classification, pitch quality (Stuff+), and pitch sequencing models for player development and strategy.
- Built an expected wins model using Monte Carlo simulations to project the team's total wins in the Big West for the 2027 season, guiding optimal scheduling decisions.
- Developed the team's first data storage system by migrating TrackMan CSVs into a PostgreSQL database for streamlined SQL querying.
- Generated post-game pitching report graphics summarizing each pitch type's metrics (e.g., velo and movement profiles) and visualizing pitch locations/break patterns to help coaches identify areas for improvement.

Data Analytics Intern | UC San Diego Career Center

Sep 2024 – Jun 2025

- Performed EDA and cleaning on career outcomes data for 12,000+ graduates to support the development of an interactive Power BI dashboard—highlighting insights on salary trends, industries, and top employers for student career planning.
- Built a PostgreSQL database to store and query 100,000+ Handshake accounts; categorized alumni by graduation year and degree type, and facilitated the archival of alumni accounts for improved data organization and historical tracking.

Baseball Analytics Intern | Palm Springs Power Baseball

Jun 2023 – Jul 2023

- Operated the FlightScope tracking system, and tracked and analyzed statistics for the PSCL's (Palm Springs Collegiate League) league website.
- Developed an interactive Looker dashboard with visualizations to assist players and coaches, in the PSCL, with evaluating pitch and batted ball data from FlightScope.

PROJECTS

Quantifying Defensive Aggression With a Bayesian Hierarchical Model

Jun 2025 – Aug 2025

- Used spatial, player- and ball-tracking data to create Aggression Over Expected (AOE), a first-of-its kind defensive metric that measures how aggressive an outfielder is expected to be, relative to their position. The probabilities that build AOE were estimated using Bayesian Hierarchical random-effects models. Also communicated complex technical concepts to non-technical judges through clear explanations and intuitive visualizations.

The Effect of Two Strikes on a Hitter's Swing

May 2025 – Jun 2025

- An interactive website that uses Baseball Savant's new swing angles—attack angle, attack direction, swing path (tilt)—to explore how hitters are adjusting their swing in two-strike counts, featuring league trends, an in-depth analysis on Yordan Alvarez's 2024 season, and a 3D sandbox to visualize the swing changes of every qualified 2024 hitter.

PSCL Interactive Dashboard

Jun 2023 – Jul 2023

- The interactive Looker Studio dashboard that provides a user-friendly interface for coaches and players to track their performances and showcase their abilities to college scouts for the PSCL.

SKILLS

Programming & Scripting Languages: Python, SQL, R, JavaScript, HTML, CSS

Databases & BI: PostgreSQL, SQLite, Tableau, Power BI, Looker

Spoken Languages: English, Spanish (Native/Fluent)

AWARDS

Nanar and Anthony Yoseloff Foundation Scholarship

Jan 2025

Issued by Society for American Baseball Research (SABR)

I am grateful to say that I was selected to receive one of four nationwide Nanar and Anthony Yoseloff Foundation Scholarships to attend the 2025 SABR Analytics Conference.