

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: Stochastic and Probabilistic Modeling, Statistical Inference, Machine Learning, 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 uses in 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.

Data Analytics Intern | UC San Diego Career Center

Sep 2024 – Jun 2025

- 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

- 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.

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.

2025 SMT Data Challenge Honorable Mention

Aug 2025

Issued by SportsMEDIA Technology (SMT)

Recognized among top participants (out of 50 teams and 114 students) for my innovative, baseball, player-tracking, quantitative analysis project, *Quantifying Defensive Aggression With a Bayesian Hierarchical Model*, in an international sports analytics competition.