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.