

HANNAH SKY GONZALEZ

(909) 927 7046 | hagonzalez@ucsd.edu | linkedin.com/in/hannah-gonzalez123/ | hannahsky.github.io/

EDUCATION

University of California, San Diego

Expected Graduation: June 2027

Bachelor of Science, Data Science & Bachelor of Arts, International Business

Coursework: Systems for Scalable Analytics, Probabilistic Modeling & Machine Learning, Representation Learning, Data Mining, Data Structures & Algorithms, Data Management, Data Analysis & Inference, AI & Technology Strategy, Econometrics, Product Marketing & Management.

EXPERIENCE

JPMorgan Chase & Co.

June 2026 - Present

Data Science Analyst Intern | *Machine Learning, Corporate Technology*

Jersey City, NJ

- Spearheading the development of an end-to-end machine learning solution to **optimize legal compliance workflows**, utilizing **Python and predictive modeling** to automate similarity detection across legal documents for faster referencing.
- Collaborating with cross-functional agile teams to align technical deliverables with business objectives, driving the enhancement of **machine learning models** that support firm-wide regulatory compliance.

Halcioğlu Data Science Institute

Nov. 2025 - Present

Lab 3.0 Fellow | *Robotics, Arduino, Circuits, Prototyping, Leading*

San Diego, CA

- Led **instructional workshops for K-12 STEM outreach** by quickly learning and teaching **Arduino, circuit design**, and introductory **data science concepts**, inspiring the future generation of engineers and data scientists.
- **Expanded program outreach** by gathering a database of **200+ school administrators** and PTA contacts through targeted online research, increasing the lab's connections for opportunities and student attendance.

LOZO

June 2025 - Aug. 2025

Research Intern, Product Management | *UX Research, Usability Testing, Persona Development*

Shanghai, China

- Improved report-saving efficiency by **50%** for **100+ users** by conducting **usability testing** on an AI-powered educational web platform.
- Reduced **average task completion time** by developing a data-driven **UX persona** from **behavioral data** and integrating insights into core feature design updates.

Women in Business, UC San Diego

Apr. 2025 - Jun. 2025

Market Research Mentor | *Market Research, UX Analysis, Mentorship, Organization*

La Jolla, CA

- Delivered a detailed **competitor and UX analysis** on Spotify's AI personalization by **mentoring a 5-student team** through **qualitative market research**.
- Presented **actionable recommendations** on AI modeling to **100+ students** by synthesizing research findings and coaching the team on **data storytelling**.

Women in Business, UC San Diego

Oct. 2024 - Dec. 2024

Market Research Intern | *Market Research, Data Analysis, Strategy, Collaboration, Public Speaking*

La Jolla, CA

- Identified feature gaps and growth opportunities by **conducting SWOT and competitor analyses** of Clarins AI's chatbot with a **5-member team**.
- **Guided marketing strategy** by designing surveys, collecting 20+ data points, and **analyzing responses in Google Sheets** to create visual consumer preference dashboards.

PROJECTS

NCAA March Madness Cinderella Anomaly Detection | *Python, Pandas, Scikit-learn, Machine Learning*

- Developed a **Logistic Regression** model using **Scikit-learn** to predict March Madness "Cinderella" upsets, achieving a **187% F1-score improvement** over the baseline and **62.5% recall** through **SMOTE** oversampling and **PCA** feature reduction.
- Engineered a robust machine learning pipeline in **Python** to prevent data leakage, ensuring strict chronological evaluation across hold-out test years through **StratifiedGroupKFold** cross-validation.
- Deployed a serverless web application on **Vercel** using **JavaScript** and **HTML/CSS** to visualize model diagnostics, delivering real-time predictions with **zero backend latency** by executing **100% client-side ML inference**.

Twitter Sentiment Analysis | *Python, Pandas, SciPy, Predictive Analytics*

- Collaborated with a team to preprocess **1.6M tweets**, filter 195 college-related posts, and engineer features, enabling **predictive modeling** that identified a **25% increase** in negative sentiment during finals week.
- Built and validated predictive models using **t-tests** and hypothesis testing in **SciPy**, confirming a statistically significant correlation between high-stress periods and negative sentiment, ensuring model accuracy and reliability.
- Created interactive visualizations in **Plotly** and summary statistics in **Pandas** to communicate sentiment trends over time, supporting actionable insights while coordinating tasks across the team for consistent data pipeline execution.

SKILLS

Languages & Tools: Python, SQL, R, Java, Git, GitHub, Jupyter Notebook, HTML/CSS, JavaScript

Data Science & ML: Pandas, Dask, PySpark, NumPy, SciPy, scikit-learn, Matplotlib, Predictive Modeling, Statistical Analysis

Big Data & Cloud: AWS, Apache Spark, MapReduce, Large-scale Data Management, Memory-Scalable Analytics