

Rebecca Bachtra

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EDUCATION

University of California, Berkeley

Expected Graduation Date: May 2026

B.A. Statistics, Data Science | GPA : 3.8/4.0

Relevant Coursework: Computing with Data, Reproducible Data Science, Data Structures, Experimental Design, Statistical Inference, Probability, Statistics, Linear Modeling, Financial Accounting, Principles of Business, Macroeconomic Analysis

SKILLS

Languages: SQL, Python, R/Rstudio, Matlab, HTML/CSS

Data Analysis & Modeling: Python, R, scikit-learn, Pandas, NumPy, A/B Testing, Experiment Design, Statistical Modeling, Regression

Data Visualization & Tools: Tableau, Power BI, Matplotlib, ggplot2, Excel, SAS, Jupyter Notebook, Git, Google Workspace, KNIME, REST APIs

WORK EXPERIENCE

Bureau of Ocean Energy Management (BOEM)

August 2025 - Present

Data Science Intern

- Boosted modeling efficiency by 30% by performing statistical correlation analysis to rank wireline sensor features and integrate XRD mineral composition data (~100K observations)
- Analyzed multi-sensor well-log data (14+ features) to develop Tableau dashboards alongside XRD mineral composition, supporting geological characterization workflows

Stanford Medicine

June 2025 - August 2025

Process Design and Strategist Analyst

- Reduced patient wait times by 30% by mining healthcare workflow data to identify bottlenecks in patient processing and resource allocation, informing leadership-backed process improvements
- Built Tableau dashboards to track healthcare process KPIs for 10–20 regular stakeholders, enabling faster operational decision-making and informing workflow redesign

Sinar Mas Agro Resources & Technology (SMART)

May 2024 - July 2024

Data Science Intern

- Built regression-based pricing models in Python and KNIME across 10+ oil products, identifying key drivers of palm oil market performance and price movements
- Analyzed cross-oil relationships to determine correlation/variance, and presented insights to stakeholders, resulting in 22% improvement in pricing accuracy

Sierra College

August 2022 - May 2024

Math Tutor

- Tutored 50+ students weekly in probability, statistics, and regression; reinforced concepts with applied examples
- Collected feedback from 50+ students weekly to improve tutoring approach, and used this data to improve the curriculum

PROJECTS AND LEADERSHIP

Advanced SQL Product Analytics & Reporting

Jan 2026 - Present

Data Scientist

- Built a product-level reporting table by joining transactional fact data with product dimensions and aggregating core KPIs
- Improved revenue by 20% in underperforming product tiers by conducting A/B testing and KPI analysis using SQL to segment products into performance tiers,

Open Project at Berkeley

August 2025 - Present

Lead Developer

- Built a dataset of 13,000+ financial news articles and two years of stock data, analyzed across 40+ sentiment parameters using the OpenAI API to predict NVIDIA stock movement
- Improved predictive accuracy by 40% by training and evaluating regression-based models on historical data to forecast key outcomes
- Presented findings to project stakeholders, translating technical results into actionable business recommendations and proposals

Associated Students of the University of California (ASUC) Office of the President

August 2024 - Present

Finance Associate

- Managed the ASUC President's \$5,000+ budget, making funding decisions across 10+ student groups/initiatives by reviewing requests and evaluating financial needs to ensure strategic distribution
- Secured \$2,000+ in funding and built partnerships for office initiatives, collaborating with external organizations and sponsors

Phi Theta Kappa (National Academic Honors Organization)

August 2023 - May 2024

Vice President

- Led community programs delivering \$8,000+ in sponsored vision care services for 100+ students with the Lions Club