

IRENA WONG

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EDUCATION

University of California, Santa Barbara | Santa Barbara, CA Expected Graduation: June 2025

Bachelor of Science (B.S.), Statistics and Data Science Major; Applied Psychology Minor

GPA: 3.90

College of Letters and Sciences Honors Program and Dean's List (7 times)

Skills: Python, Java, Snowflake, R, SQL, GitHub, MS Office, Machine Learning, SAS, AWS, Matillion, Tableau

Relevant Courses: Regression Analysis, Object-Oriented Python, Data Science Principles, Linear Algebra, Vector Calculus, Differential Equations, Machine Learning, Probability and Statistics, Discrete Math

Involvements: Incoming AI Software Algorithms and Architecture Co-Op @ MIT Lincoln Lab, President of Data Science UCSB, Strategic Analyst for AS Strategic Operations Office, NationBuilder Capstone Group

EXPERIENCE

Workday | Pleasanton, CA

June 2024 - September 2024

Data Science Intern

- Built first WE pipeline w/ SQL & Python to analyze 1M+ user journeys for Research & Design team
- Cleaned & mapped over 200 TB of UX click, interaction, and impression data to ensure usability
- Spearheaded data migration to unified data lake, improving accessibility for cross-functional teams
- Wrote/presented data logging proposal to enhance WE's schema in AWS for platform integration
- Used R to conduct multilevel survival analysis at 95% CL & time series for forecasting active users

Pacific Life | Newport Beach, CA

June 2023 - September 2023

Data Engineer Intern

- Protected client/agent data security by masking 2,700+ PII columns (SSN, TaxID, etc) over 2 weeks
- Assisted Data Management team w/ migrating data from legacy warehouses to Snowflake databases
- Enhanced data masking processes for sensitive/confidential info, resulting in 60% efficiency boost
- Automated extraction of 100mil+ data entries into local databases via creation of stored procedures
- Acquired proficiency in Matillion for the purpose of overseeing ETL migration pipelines
- Collaborated within Agile Scrum framework and worked extensively in SQL to complete tasks

UCSB Department of Statistics and Applied Probability | Goleta, CA

September 2022 - June 2024

Undergraduate Learning Assistant

- Selected for outstanding performance in course, TA recommendation, and communication ability
- Tutored groups of 2-10 students at a time in office hours for probability & statistics coursework
- Guided students through introductory material and concepts in SAS-based programming
- Asked questions to students in order to provoke thought and get to the root of problems/difficulties
- Effectively explained and taught challenging concepts (including properties of distributions)

Social Perception Lab | Santa Barbara, CA

September 2022 - June 2023

Research Assistant

- Studied and presented the effects of dehumanizing language on social perception of individuals
- Manipulated and cleaned large, disorganized datasets (36,000+ entries)
- Used R and SQL to perform regression analysis, generalized linear modeling, and data visualizations
- Drew conclusions about human behavior from analyses and developed new research questions
- Used Microsoft Powerpoint and RMarkdown to give presentation on the overall study and findings
- Applied reinforcement learning (Q-learning) to find model to best represent/predict human behavior

PROJECTS

Correkt | Santa Barbara, CA

October 2022 - May 2023

Machine Learning and DevOps

- Created a web extension and website to scan social media pages and flag/classify misinformation
- Worked with Natural Language Processing in order to implement ML models and algorithms
- Explored ML concepts (i.e. model selection, cross-validation) and packages (Pytorch, Tensorflow)
- Tested different models (SVM, Decision Tree, Random Forest, Gradient Boosting, MLP, KNN, BERT)
- Developed ROBERTA transformer architecture with retrieval augmentation layer (93% accuracy)

GauchosCourses | Santa Barbara, CA

November 2022 - January 2023

- Configured server & implemented Docker for efficient containerization and deployment of application
- Created GitHub Actions workflow to publish container to GitHub Container Registry and check PRs
- Worked with cloud platform Microsoft Azure to create Azure Container Apps and databases