

Jenny Wang

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EDUCATION

University of California, Los Angeles (UCLA) Master of Engineering in Data Science Sep 2024 - Sep 2025
GPA: 3.8/4.0

University of California, Berkeley Bachelor of Arts in Applied Mathematics Jun 2022 - May 2024
GPA: 3.9/4.0 with Dean's List for 2023-2024

New York University Bachelor of Arts in Economics and Mathematics Sep 2020 - Jun 2022

PROFESSIONAL EXPERIENCE

UC Berkeley Research Name: OATutor, Berkeley, CA, *Research Data Analyst* Sep 2023 - Present

- **Data Querying:** Wrote SQL queries to extract over 1 million rows of user submission log data from the database
- **Data Preprocessing:** Performed data cleaning and formatting using Python (Pandas, Numpy, Matplotlib); applied K-means clustering to visualize the Bayesian Knowledge Tracing (BKT) state prediction parameter distribution, ensuring high-quality input for the model
- **A/B testing:** Implemented A/B testing to identify and rectify key shortcomings in the OATutor system, achieving a 30% improvement in user engagement
- **Automation Reporting System:** Developed and maintained a Python-based data reporting system to fetch, analyze, and email daily user activity statistics, successfully transitioning to fully automated weekly reports, eliminating the need for manual intervention

Forell | Elsesser Engineers, Inc., San Francisco, CA, *Data Analyst Intern* Sep 2023 - Dec 2023

- **Data Transformation:** Processed the 100k+ raw data and built an ETL pipeline using Python and SQL to streamline data retrieval, processing, and storage, ensuring data quality and elevating processing efficiency by 20%
- **Data Standardization:** Standardized data by mapping IDs to material names and converting carbon emission units using Python (Pandas, NumPy); visualized material-specific carbon emissions with bar charts using ggplot
- **Data Visualization:** Designed and deployed an interactive Power BI dashboard to help stakeholders understand carbon emission reductions (kgCO₂e), enhancing visibility of transportation impacts and leading to increased engagement from non-technical users
- **Project Evaluation:** Prioritized key metrics to evaluate company's project and proposed a new OEC adopted by 10+ business teams; collaborated with Engineering teams to execute the new OEC across different business lines

Aspiranet, San Francisco, CA, *Data Analyst Intern* Jan 2023 - May 2023

- **Data Cleaning:** Implemented data cleaning (e.g. replacing missing value using Linear Regression) using R (dplyr, tidyverse), which boosted data accuracy and integrity, leading to a 10% reduction in data processing errors
- **Hypothesis Testing:** Analyzed causality between suicide-related incidents and the CANS scoring system by conducting hypothesis testing to confirm statistically significant differences in assessment scores between youth with and without critical incidents
- **Machine Learning:** Assessed feature importance and identified key factors influencing the occurrence of critical incidents using Logistic Regression
- **Presentation:** Created a 35-slide presentation to share model insights across teams, helping management make data-driven decisions and optimize resource allocation

PricewaterhouseCoopers Consulting (PWC), Shenzhen, China, *Data Analyst Intern* Aug 2021 - Sep 2021

- **Data Review:** Performed in-depth reviews of transfer pricing documentation and financial records for over 30 multinational corporations, ensuring compliance with both local and international tax regulations
- **Data Analysis:** Used Excel to synthesize tax data, achieving a 25% improvement in report accuracy and a 20% reduction in report generation time

SKILLS & CERTIFICATION

Programming Languages: SQL (MySQL), Python (NumPy, Pandas, Matplotlib), R, MATLAB

Data Visualization & Analysis: R Shiny, Tableau, Power BI, Plotly, Excel, Hive

Statistical Modeling & Machine Learning: Causal Inference, A/B Testing, Regularization Techniques (Lasso, Ridge), Naive Bayes, Time Series and Forecasting, Boosting Algorithms

Certification: Google Data Analytics Certificate