

Olivia Nguyen

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EDUCATION

University of California, Los Angeles (UCLA)

Sept 2023 - June 2026

B.S. Statistics and Data Science, Minor in Data Science Engineering

GPA: 3.65

Coursework: Data Science, Data Analysis & Regression, Mathematical Statistics, Optimization, Probability, Linear Algebra

EXPERIENCE

Joshi Lab - David Geffen School of Medicine

Oct 2024 - Present

Data Research Assistant

Los Angeles, CA

- Analyzing IBS dietary, microbiome, and clinical data in R (tidyverse, glmnet, ggplot2) using linear modeling, multivariate analysis, and exploratory data visualization.
- Contributed to research on estrogen-metabolizing gut bacteria across menopausal stages and menstrual cycle phases in IBS patients and healthy controls; poster presentation through the American Gastroenterological Association.

EQ.app

Oct 2025 - Dec 2025

Data Engineer - Contract

Los Angeles, CA

- Designed a cloud-based ETL pipeline using Airflow to process data from AI chatbots, phone bots, and email bots.
- Built a scalable data infrastructure to enable real-time analytics and performance insights for recruiting agents.

AGENTS HQ (AGENTS.inc)

June 2025 - Aug 2025

AI Engineer Intern

Berlin, Germany

- Developed an AI agent that automated the finding of 35K+ company domains by designing rule-based semantic matching logic and integrating Beautiful Soup, ValueSERP, and Gemini LLM, achieving ~95% accuracy.
- Reduced runtime from 15 minutes to <1 minute using asynchronous processing.

Mobility Lab - Henry Samueli School of Engineering

Apr 2025 - June 2025

Machine Learning Undergraduate Researcher

Los Angeles, CA

- Detected ~15K anomalies in 3M+ GPS staypoints in Japan using Python, pandas, and scikit-learn.
- Built interactive geospatial visualizations with Folium and Plotly to explore patterns to forecast where, when, and how people travel, enabling urban transportation strategies.

Zeitios

Apr 2025 - June 2025

Software Developer - Contract

Los Angeles, CA

- Collaborated on a full-stack AI tutoring platform using React and Node.js to generate interactive courses and videos.
- Integrated OpenAI, ElevenLabs, and MagicSlides APIs to create AI-generated content with voiceovers and slides.

EXTRACURRICULARS

Data Resolutions at UCLA | Data Learn Co-Head

Apr 2025 - Present

- Creating and delivering in-person lectures, creating practice materials, and covering data science topics beyond UCLA's standard curriculum including Python, SQL, and Tableau for over 200 students each quarter.

UCLA Statistics Club | STAND/DEI Chair ('25-26), Career Development Chair ('24-25), DataFest Events Committee ('23-24)

Oct 2023 - Present

- Leading inclusivity-focused events, community service, and diversity initiatives with the Statistics Department.
- Presented 2-3 career development workshops each quarter on career development, such as panels and resume-building.
- Coordinated workshops through collaboration with UCLA faculty to support and guide participants at DataFest.

- Built a user-friendly web platform facilitating roommate search using JavaScript, HTML/CSS, React, Figma, and Google Firebase
- Developed skills in software engineering and product management through weekly curriculums.

PROJECTS

Skin-tuition: Unmasking Skincare Secrets | *Data Resolutions - Data Blog Project*

- Analyzed 1,400+ skincare products to evaluate ingredient functionality, customer feedback, and profitability.
- Built a Scrapy web scraper to collect data on 1,100+ ingredients and engineered percentile-based features.
- Improved matching of 45,000+ messy ingredient records by 80% using TF-IDF vectorization and cosine similarity.

NBA Game Prediction | *Statistical Modeling and Data Mining Final Project*

- Predicted the outcomes of NBA games in 2023 and 2024 based on past game results with ~70% accuracy using Python
- Engineered features using weighted averages of past game stats, applied L1-regularized Logistic Regression for feature selection, and evaluated models including Logistic Regression, SVM, LDA/QDA, KNN, and Random Forest

How to Win Every Round of Mario Kart | *Data Resolutions - Data Blog Project*

- Analyzed 190+ Mario Kart 8 Deluxe world-record builds across 40+ character-vehicle combinations using Python.
- Visualized performance trade-offs using statistical analysis and charts, determining the best setup to win.

California Food Deserts | *Digital Humanities Final Project*

- Analyzed 2.5K California census tracts to identify gaps in food access and created interactive Tableau visualizations and a WordPress site to communicate actionable insights to stakeholders.

IMDb Movie Review Analysis | *National Student Data Corporation at UCLA*

- Analyzed 50,000 IMDb movie reviews using NLP techniques such as sentiment analysis, named entity recognition, tokenization, lemmatization, and TF-IDF in Python.
- Predicted positive/negative reviews, sentiment towards directors, actors, actresses, and movie genres with ~60% accuracy.

ABSTRACTS & PRESENTATIONS

Mahurkar-Joshi, S., Labus, J. S., Dong, T., Jacobs, J. P., **Nguyen, O.**, et al. Differential abundance of estrogen-metabolizing gut bacteria across menopausal stages and menstrual cycle phases in irritable bowel syndrome patients compared to healthy controls. Poster presentation, *American Gastroenterological Association (AGA), Microbiome in Gastrointestinal and Liver Diseases Track*, 2025, Los Angeles, CA.

CERTIFICATIONS

IBM Data Science Professional Certificate

- A 12-course Coursera certificate in Python, data analysis, machine learning, SQL, data visualization, and other data science skills with hands-on projects and model deployment.
- Gained proficiency in Python libraries such as Pandas, NumPy, and Matplotlib for data manipulation and visualization.

SKILLS

Programming languages: Python, R, SQL, C++, Java, HTML/CSS, JavaScript

Tools: Tableau, PowerBI, Apache Hadoop, Airflow, Jupyter, Git, Excel

Hobbies: Baking (cinnamon muffins), cooking (stir fry), hiking, exploring