Gianna Kim

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Education

University of California - Los Angeles *Sept 2022 – June 2026*
BS in Statistics and Data Science, Bioinformatics Concentration

- **Coursework:** Generative Data Science (Python/PyTorch), LLMs (Python/Pytorch), Optimization in Statistical & ML models (Python/PyTorch/sklearn), Statistical models (R/tidyverse), Probabilistic & ML models in Computational Genetics (Python/Stan), Monte Carlo Methods (R), Regression (R), Experimental Design (R), Math Statistics, Data Structures and algorithms (C++)
- GPA: 3.67

Professional Experience

Research Assistant *Los Angeles, CA*
UCLA, Professor Chongyuan Luo *Sept 2025 – Present*

- Develop spatial -omics pipeline for analysis on CosMx acquired mouse brain tissue samples and benchmarking dimensionality reduction and cell clustering methods for spatial data
- Integrated 10x single cell with spatial data for multi-omics analysis and cell-typing to test spatially aware statistical methods comparing trade-offs on interpretability and extracting non-linear structures

Data Science Intern *Seoul, KR*
Titleist Performance Institute *July 2025 – Sept 2025*

- Developed a scoring program prototype for performance assessment on high-dimensional biometric data utilizing variance threshold and correlation analysis for feature selection and decision tree learning (R)
- Presented a proposal on R&D of the scoring system with an implementation of a scalable database on player information selected to move forward for future development
- Built a web-app with database integration with individualized visualizations based on scoring program metrics to be scaled for hundreds of clients (React/Supabase/Tableau)

Marketing Analytics Intern *Los Angeles, CA*
TeAda Productions *Sept 2024 – Jan 2025*

- Streamlined outreach with a 25% increase in engagement on CTOR by automating the pre-processing of contact data for CRM software.
- 3X increase in grant application output and meeting timeline goals by standardizing and centralizing all grant data in Excel.

Projects & Organizations

NLP Archetypal Analysis on Song Lyrics *github/bladee-personas*

- Analyzed and clustered Bladee (musical artist) lyrics gathered from the LyricsGenius API which were preprocessed and vectorized through SBERT to approximate Archetypal Analysis using methods: Non-negative matrix formation and an Autoencoder
- Tools Used: PyTorch/SBERT/sklearn/matplotlib/seaborn, LyricsGenius API

QR Code Tracking App *github.io/project-ropa*

- Implemented and deployed the QR code generator, scanner, and ”name item” page that adds a new item to the database with user information using react-native-qrcode-svg and expo-camera
- Tools Used: React-Native/Expo/Typescript, Supabase

Technologies

Languages: R, Python, HTML/CSS/JavaScript, C++, SQL, React.js/TailwindCSS
Libraries: PyTorch/Torch for R, sci-kit learn/tidymodels, matplotlib/seaborn/ggplot2
Tools & Practices: A/B testing, machine learning, neural networks, data analysis / visualization (Tableau, Excel), full-stack web development (React, Supabase), UI / UX (Figma)