

KATIE LAM

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EDUCATION

Northwestern University

Evanston, IL

Bachelor of Arts in Data Science, Bachelor of Arts in Cognitive Science, Minor in General Music, Certificate in Integrated Marketing Communications

Expected June 2027

- **GPA: 3.92/4.00 | ACT: 35**
- **Honors:** Dean's List 7 of 7 quarters

Course Highlights

- **Data Science with Python** – honed foundational algorithmic and statistical strategies to uncover insights, identify outliers, and predict and infer patterns in data through Polynomial and Logistic Regression via Machine Learning models from the **statsmodels** and **sklearn** packages in Python. View coursework [here](#).
- **Data Visualization**– utilized **ggplot2** and **tidyverse** libraries in R to transform real-world datasets as readable, aesthetic, and interactive graphics and dashboards.
- **Social Networks Analysis**– determined centralities (betweenness, closeness, eigenvector) of social networks and interpreting directed and undirected data through Exponential Random Graph Models (ERGMs) and Autologistic Actor Attribute Models (ALAAMs). View paper analysis [here](#).

Notre Dame High School

San Jose, CA

- **GPA: 4.00/4.00 UW, 4.72 / 4.00 W**
- **Honors:** Highest Academic Honors, National Honor Society, California Scholarship Federation
- **Relevant Coursework:** achieved 5s on AP exams in: Computer Principles, Computer Science A, Calculus BC

May 2023

LEADERSHIP & ACTIVITIES

Develop + Innovate for Social Change Club

Evanston, IL

Project Team Member

January 2024 – May 2024

- Launched extensive database and React web interface for the Evanston Animal Shelter to track future food and hygiene inventory and client demographics through Amazon Relational Database Service utilizing **SQL query execution through Python**. View more details [here](#).

Northwestern University Ukulele Club

Evanston, IL

Co-Founder and President

October 2023 – Present

- Established club's mission on emphasis of the celebration of Asian-Pacific culture
- Evaluating methods for obtaining university funding through grant applications and direct communication with
- Spearheading event programming, marketing strategies, and communication with guest performers such as Kumu Lanialoha Lee to host `ukulele masterclasses and speaker sessions on the spread of Pacific Islander culture to mainland America.

NU Nights

Evanston, IL

Marketing Assistant (2023), VP of Programming (2024)

September 2023 – Present

- Coordinating and promoted weekly, student-led recreational events such as board game nights and karaoke

RESEARCH

Northwestern University, Undergraduate Research Assistant Program

Evanston, IL

Listening in the Age of Streaming

December 2024 – Present

- One of 4 critical members in a collaborative team with Professor [Daniel Shanahan](#), one graduate assistant, and one other undergraduate student to research Music Recommender Systems and listener behavior on digital music platforms.
- Designing full-stack Django application populated with a corpus of AI-generated songs through SUNO and implementing both content and collaborative filtering recommender algorithms in six weeks utilizing Librosa audio analysis package.
- Received grant of \$4000 for independent novel research applying collected data to an Agent Based Model with Python package **Mesa**

Carleton College, Summer Liberal Arts Institute

Northfield, MN

Research in the Humanities

July 2022 – July 2022

- Authored 10-page research paper and presentation on Tridentine dissent towards secular music as to retain emphasis of purity in liturgical music through Giovanni Pierluigi da Palestrina's Missa Papae Marcelli

ADDITIONAL

Technical Skills: Intermediate knowledge of Python, R, SQL, JMP, Django, Java, Adobe Creative Cloud, and Google Suite

Languages: English (Native), French (Intermediate)

Interests: Volleyball, Choir, Composing music, Collecting ukuleles, Exploring cultural cuisine