# Ryan Quach

(626) 731-4765 • ryanquach03@g.ucla.edu • https://www.linkedin.com/in/ryan-quach/ • ryanquach03.github.io

## SKILLS

- **Data Analysis/Wrangling**: dplyr, tidyr, pandas, polars
- **Data Visualization**: Canva, ggplot2, Plotly, Seaborn
- **Machine/Statistical Learning**: Caret, scikit-learn, XGBoost
- **Microsoft Applications:** Excel, Powerpoint, MS Teams
- **Programming Languages**: Python, R, SQL

## EDUCATION

***University of California, Los Angeles (UCLA)***

- Bachelor of Science (B.S.) in Statistics with a Minor in Mathematics — Sept 2021 - March 2025
    - Major GPA: 3.98 | Overall GPA: 3.92 | Honors: Phi Beta Kappa, Dean's Honor List
- Master of Science (M.S.) in Statistics Candidate — Sept 2025 - June 2027

## EXPERIENCE

**AI Model Validation Fellow (MOVE Program) - Handshake AI,** *San Francisco, CA (Remote)* **September 2025 - Present**

- Generate challenging prompts to improve overall performance of large language models (LLMs)
- Utilize domain expertise to ensure that LLMs are equipped to answer complicated problems in statistics

**Research Intern - UCLA Herbarium, UCLA Mathias Botanical Garden,** *Westwood, CA* **October 2024 - June 2025**

- Facilitate the physical refiling and digital imaging of botanical specimens within the university collection
- Investigate the most common families, genera, and other categories for plants in the Herbarium using R
- Visualize the distribution of botanical field findings within California through R geospatial packages

**General Manager - UCLA Recreation Intramural (IM) Sports,** *Westwood, CA* **September 2023 - June 2025**

- Coordinate with other general managers and staff to verify player attendance at IM matches
- Ensure that locations (courts, fields, etc.) would be logistically ready/secure for UCLA Recreation purposes
- Certify inventory and equipment stocks at various IM locations along with other staff members

## PROJECTS

**Estimating Food Delivery Times with Statistical Learning using Python** **November 2023 - January 2024**

- Utilized food delivery data from the Indian subcontinent to build scikit-learn and XGBoost modeling
- Wrangled data using the polars package and visualized figures with the seaborn and matplotlib packages
- Determined that average prediction error was less than one-third of the standard deviation for the delivery time

**Predicting Customer Churn with Machine Learning in Python** **February 2023 - April 2023**

- Extracted dataset from anonymous telecommunications firm and tidied data with the polars package
- Forecasted the rate of customer churn with the assistance of scikit-learn and XGBoost
- Calculated business value of about $1.2 million annually for every ten thousand customers

*References available upon request*