

Steven Turnbull

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EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)

Master of Science, Statistics

Los Angeles, CA

Sep 2022 – June 2024 *Exp.*

Bachelor of Science, Statistics

Sep 2018 – June 2022

Minors: Bioinformatics, Mathematics

- *Bachelor's GPA:* 3.91/ 4.00; *Master's GPA:* 3.9/4.00
- *Awards & Honors:* Dean's List (9x); UCLA Alumni Scholarship; Alpha Lambda Delta Honor Society; Phi Eta Sigma Honor Society; Graduated Cum Laude
- *Relevant Coursework:* *Advanced Modeling & Inference; Optimization (theoretical & applied); Statistical programming; Data Science; Mathematical Stats; Applied Probability; Causality; ML in Genetics; Spatial Statistics*

WORK EXPERIENCE

UCLA STATISTICS DEPARTMENT

Los Angeles, CA

Student Researcher (Under Professor Qing Zhou)

July 2022 – Present

- Spearheading an algorithm development project aimed at enabling causal inference from observational data by identifying the most probable MAG within a PAG equivalence class.
- Requires extensive literature review and formulating innovative solutions to tackle algorithmic complexity challenges through the use of optimization/statistical learning techniques including simulated annealing.

ADAPTIVE BIOTECHNOLOGIES

Seattle, WA (Remote)

Intern, Bioinformatics Analyst

June 2023 – September 2023

- Enhanced quality control methods by expanding and optimizing the code base, pushing over 500 lines of code, which resulted in improved runtime, accuracy, and readability.
- Developed and implemented read mapping algorithms, leading to a substantial 3% increase in mapped reads with limited statistically unlikely mismatches.
- Collaborated with scientists to extend code functionality for newly developed assay, expanding its utility beyond its original scope.

INTERNET SAFETY LABS

Remote

Junior Researcher - Quantitative Analyst

March 2022 – May 2023

- Developed a sampling procedure to collect data on malicious characteristics of EdTech applications.
- Collected data and developed schemas to store this data in an efficient and accessible format.
- Created automated data collection and visualization tools in R and powershell.

ZARLAB (computational genetics group at UCLA)

Los Angeles, CA

Student Researcher

June 2020 – June 2022

- Advanced generic Mendelian Randomization by leveraging genetic trios to account for population structure.
- Implemented testing frameworks to validate our method on genetic data of over 500,000 volunteer patients.

UCLA Health (Statistical Consulting Capstone)

Los Angeles, CA

Consultant

January 2022 – June 2022

- Performed end to end data analysis on NASS patient-level and hospital-level data to predict future optical surgeries, with a focus on specific previous operations - CPT Codes – as predictors. Eventually finding null effects.
- Theorized and fit a random forest model with an overall accuracy of 75% - a 10% improvement over other presented models using geolocational and patient-level data as predictors.

UCLA FOOTBALL

Los Angeles, CA

Operational Audio and Time Technician & Football Recruiting Intern

Jan 2019 – Dec 2019

TECHNICAL SKILLS

- *Computational: R, Python, Julia*
 - *R:* Data collection, cleaning, analysis; ML, numerical methods; tidyverse
 - *Python:* Data collection, cleaning, analysis; numpy, pandas, statsmodels
- *Database Management:* SQL, Snowflake, Denodo, AWS
- *Data Visualization:* Tableau, Microsoft Excel, R/Python/Julia
- *Software Development:* OOP, Data Structures & Algorithms in C++, Python, R; Version Control(Github, Gitlab, Bitbucket); bash, powershell

INTERESTS

- Enjoys playing sport particularly basketball and tennis. Also enjoys hiking, cooking and reading fiction novels.