

EDUCATION

Brigham Young University, Provo, UT

January 2021 - April 2024

B.S. Statistics: Emphasis in Biostatistics

Minor in Mathematics

Minor in Philosophy

Honors: Dean's List, the College of Physical and Mathematical Sciences, four times;
Nominated for Mathematics Department Undergraduate Recognition Banquet
(for exceptional performance in mathematics), three times; 4.0/4.0 major GPA,
3.99/4.0 overall.

EXPERIENCE

•Brigham Young University

Provo, UT

Department of Mathematics, Research Assistant

April 2022 - May 2024

- Applied machine learning models—such as random forests, XGboost, support vector machines—using Python to predict psychotherapy outcomes of thousands of clients
- Introduced four other research assistants on the project
- Used statistical theory, including creating estimator for variance of an individual client
- Created visualizations for reports, scholarly manuscripts, and presentations
- Created, updated, and debugged code in a GitHub repository, with several dozen Python scripts

Department of Statistics, Teaching Assistant for STAT 230 (Analysis of Variance)

January 2022 - April 2022

- Taught individual students, from two classes of 30, statistical concepts, such as hypothesis testing and ANOVA
- Graded weekly assignments, exams, and final projects

•University of California, Irvine

Irvine, CA

Intern

July 2022 - August 2022

- Used random forests and multinomial regression with LASSO to predict gene motifs
- Presented results to peers and faculty
- Collaborated with two other students and a faculty member

PAPERS AND PRESENTATIONS

•**Paper** MATCH: Client-therapist matching with machine learning, submitted

•**Presentation** Matching Clients and Therapists Using Machine Learning, Society for Psychotherapy Research, Dublin, Ireland, 2023

•**Presentation** Client-Therapist Matching Optimization with Unlimited Therapist Capacity, Brigham Young University Student Research Conference, Provo, UT, 2023

•**Presentation** Predicting Gene Interactions, Irvine Summer Institute in Biostatistics and Undergraduate Data Science, Irvine, CA, 2022

SKILLS

Languages: Proficient in R and Python, intermediate in SAS and Julia

Soft Skills: Customer service, teamwork, writing

Coursework: Advanced linear algebra, real analysis, statistical modeling, probability and inference

POSITIONS OF RESPONSIBILITY

•BYU Statistics Association

Treasurer

August 2022 - April 2023

- Managed \$10,000 budget
- Purchased items for events with the number of participants range from tens to hundreds of people

Biostatistics Emphasis Representative & Member of Executive Committee

May 2023 - April 2024

- Organized an event each semester for students in the biostatistics emphasis
- Mentored students on academic and career plans
- Oversaw three other emphasis representatives