

Jose F. Alfaro

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EDUCATION

Texas A&M University, College Station, Texas

Bachelor of Science in Statistics/Minors in Mathematics and Bioinformatics, May 2018

The University of Texas at Dallas, Richardson, Texas

Ph.D. in Statistics, May 2023

HONORS

Department of Statistics Scholarship (\$2,500), August 2017 – May 2018

Sheather Scholarship for First Generation Undergraduate Students (\$1,000), August 2017 – May 2018

The Climate, Diversity, and Inclusion Scholarship for Undergraduates (\$1,000), August 2017 – May 2018

INTERNSHIP

Advanta Seeds, College Station, Texas

Statistics Intern, June 2017 – August 2017

- Developed “seeking algorithms” to find the optimal subset of genetic markers that would distinctly identify all single nucleotide polymorphisms (SNPs) in 17 sorghum genes.
- Constructed an algorithm to find the minimum subset of SNPs that would distinguish every genetic marker.
- Helped produce and assess a spatial floor simulation package which was also uploaded to the R CRAN library (SpatialFloor).

EXPERIENCE

The University of Texas at Dallas, Richardson, Texas

Teaching Assistant, August 2018 – Present

- Taught calculus 1 and 2 course material on a weekly basis, hosted office hours for outside instruction, and graded all coursework for the assigned problem sessions.
- Effectively communicated complex course material in a clear and comprehensible manner.

The University of Texas at Dallas, Richardson, Texas

Assistant, September 2018 – Present

- Aided a faculty member’s research by creating an interactive Shiny application that helped locate earthquake locations in Taiwan.
- Created a second Shiny application that exemplifies trends found in the grades of a course to demonstrate the capabilities of the R language to undergraduate students.

Boston University, Boston, Massachusetts

Student/Researcher, June 2018 – August 2018

- Studied biostatistics, epidemiology, clinical trials, and statistical genetics.
- Used SAS and R to analyze data from the Framingham Heart Study and Jackson Heart Study.
- Collaborated in a survival analysis research project using the Digitalis Investigation Group (DIG) dataset which culminated in an oral presentation exploring the effects of digoxin on heart failure.

Texas A&M Institute of Data Science Competition, College Station, Texas

1st Place Winner (\$2,500), December 2017 – April 2018

- Analyzed a large dataset containing Chicago taxi records to forecast what the future of the taxi industry holds within the next year using ARIMA forecast models.
- Utilized clustering techniques along with the coordinates of popular sites in Chicago to predict heavy taxi usage in different areas of the city by hour, day, and month.

Police Data Challenge, College Station, Texas

Participant, October 2017 – November 2017

- Analyzed a Cincinnati police dataset to extrapolate trends within the city’s most violent incidents.
- Utilized Plotly to create interactive visualizations to exemplify the need for updated safety measures.

SKILLS

- ✓ *Proficient in:* R, SAS, and Microsoft *Experienced in:* Python, Java, C++, Plotly, and Shiny
- ✓ Fluent in English and Spanish (reading and writing)
- ✓ Able to evaluate, interpret, and present difficult statistical arguments in an understandable manner
- ✓ Able to work independently or on a team
- ✓ Knowledgeable in several machine learning algorithms (Ex: KNN, LDA, QDA, K-Means, ext.)