

Seth Arreola

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EDUCATION

California State University of Fullerton

Masters of Science in Statistics

Fullerton, CA

Aug. 2021 – May 2023

California State University of Fullerton

Bachelors of Arts in Mathematics

Fullerton, CA

Aug. 2018 – Dec. 2020

Crafton Hills College

Associates in Science Degrees: Mathematics, Economics

Yucaipa, CA

Aug. 2014 – May 2018

EXPERIENCE

Statistical Consultant - EA

Jan. 2023 – May 2023

Electronic Arts

CA

- Consulted EA's performance mobile marketing team of Data scientists. The primary goal of this consultation was to develop and optimize a conversion schema to track iOS user's post-install data for short and long term revenue prediction.
- Tools and technology's used ranged from a variety of machine learning models all coded in Python

Mathematics/Statistics/and R-programming Tutor

Dec. 2020 – Present

San-Bernardino, Orange Counties, and Remote

CA

- Assisted and tutored Graduate, Undergraduate, and High school students in a range of mathematics and statistic topics. Moreover, helped students translate statistic topics and ideas into actionable R-code.

Undergraduate Research Assistant

Aug. 2020 – May. 2021

CSUF [Portfolio-page](#)

Fullerton, CA

- Research consisted of developing a series of statistical models that were applied to COVID-19 data in order to model the transmission of the virus, along with gaining insight into the nature of transmission effectiveness among differing counties with respect to mobility data. Tools used for exploration and modeling include R, rShiny, and ggplot. Findings were presented to the National Conference of Undergraduate Research.

DeLand Research Assistant

Jan. 2020 – Aug. 2020

CSUF [Portfolio-page](#)

Fullerton, CA

- Assisted with creating novel methodologies for estimation and convergence of probability distributions.
- Worked in conjunction with statisticians from CSUF, University of Waterloo, and geologists from CSUF, and UCLA to estimate rainfall hiatus at Barley Lake as a consequent of climate. Methodologies and results were documented and was submitted to the Journal of Environmental Statistics.

PROJECTS

A Statistical Analysis of San Francisco Airbnb Data

Sep. 2022 – Dec. 2022

[Portfolio-page](#)

- In this analysis, a predictive engine is developed to predict the price per night of a given listing to the benefit of property owners, helping them gauge their listings worth, coupled with extensive exploratory data analysis. The study is focused on Airbnb's San Francisco market place, where multiple model were developed (including tree-based methods: Random Forests and Extreme Gradient Boosting, as well as Neural Networks).

MLB Pitch-type Analysis

Jan. 2022 – May 2022

[Portfolio-page](#)

- In this project a range of robust statistical models were applied to MLB data (saber-metrics) in order to model strike calls made by umpires, for the purpose of acquiring insight into the nature that pitch-types has on umpires effectiveness at making correct calls. Results suggest the probability of a strike call is not consistent in the edge of the strike zone among differing pitch-types.

TECHNICAL SKILLS

Expert in: R-programming(4+ yrs) and related packages (tidyverse ggplot), RMarkdown, RShiny, LaTeX, Microsoft(Excel, PowerPoint, and Word), SPSS

Experience in or Knowledge of: Python, SQL, git, tableau