

Lance J. Fernando

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Education

B.S. in Data Science | Concentration in Computational Analytics
Cumulative GPA: 3.81 | Major GPA: 3.66

Fall 2014 - expected Spring 2018

Skills

- Data Analysis (**R/Python**)
- Visualization (**R, D3.js, Tableau**)
- OOP (**Java**)
- Machine Learning (**R**)
- Querying (**SQL**)
- Web-Scraping (**R, Python, Java**)

Experience

Research Intern

August 2017 - Present

CA Technologies (Santa Clara, CA)

- Program a backend visualization recommendation system in **Python**
- Create interactive visualizations using **plotly.js** and **d3.js** with **react+redux** infrastructure
- Conduct literature review

Data Intern

December 2016 - Present

The Climate Music Project <http://www.theclimatemusicproject.org>

- Analyzed and aggregated historic and future climate data using **R** and visualize data using **ggplot2**
- Scrape google scholar search results using **R**
- Assisting in developing an open-sourced climate-music tool

Undergraduate Research Assistant

June 2017 - Present

University of San Francisco Visualization and Graphics Lab

- Design user studies deployed on **MTurk** using **Javascript**, **Python** and **R** and provide analyses of results
- Conduct literature review and assist in writing academic papers

Grader for Probability With Applications (MATH 370)

August 2017 - Present

University of San Francisco

- Grade weekly assignments for this upper division math course

Classroom Technology Technician

September 2014 - May 2017

University of San Francisco ITS

- Provide on call IT support and repairs/updates for smart classroom A/V equipment and computers

Projects

Spam Detection Using Naive Bayes

Spring 2018

<https://ljfernando.github.io/SpamDetectionNaiveBayes/>

Group Project

Implemented a Naive Bayes Classifier from scratch in **R** to detect spam emails based on their content. Extracted features from our database of emails and achieved a cross-validated misclassification error rate of 5%

Visualizing Ecological Footprint

Spring 2017

<https://usf-cs360-2017.github.io/project-Ljfernando/>

Individual Project

Created an interactive dashboard visualizing a region's footprint on the environment using **Javascript**, **D3.js**, **Tableau** and **Github Pages**

One-Stop Shop Regression Function

Spring 2017

<https://ljfernando.github.io/Regressience/>

Group Project

Created an open-sourced function that runs various regression algorithms including Linear Regression, Lasso, Regression Trees and others, then compares the accuracies via cross-validated results using **R** and **RMarkdown**

Analysis of SF Bikeshare Activity

Fall 2016

<https://ljfernando.github.io/BikeSharing/>

Individual Project

Conducted analyses of the SF Bikeshare program and modeled its daily activity with various regression algorithms using **R** and **RMarkdown**

Movie Recommender

Fall 2016

<https://github.com/Ljfernando/MovieRecommendation>

Individual Project

Developed a movie recommendation program using **Python** that utilizes collaborative filtering of user ratings from the MovieLens 100k dataset and provides recommendations based on your inputted movie ratings