

# Lance J. Fernando

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## Education

**B.S. in Data Science** | Concentration in Computational Analytics  
Cumulative GPA: 3.79 | Major GPA: 3.64

**Fall 2014 - expected Spring 2018**

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## Coursework

- Data Mining (A)
  - Data Structures & Algorithms (B)
  - Software Development (A)
  - Data Visualization (A)
  - Statistics w/ Applications (A)
  - Probability w/ Applications (A-)
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## Skills

- Data Analysis/Cleaning (R)
  - Machine Learning (R)
  - Visualization (R, D3.js, Tableau)
  - Querying (SQL)
  - OOP (Java)
  - Scripting/Programming (Python)
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## Experience

### 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 the **ggplot2** library
  - Act as liaison between science team and musical composer providing and interpreting data
  - Assisting in developing an open-sourced climate music tool
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### Undergraduate Research Assistant II

**June 2017 - Present**

University of San Francisco Visualization and Graphics Lab

- Program in **JavaScript**, **Python** and **R**
  - Design user studies
  - Read and write academic papers
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### 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
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### Assistant Music Director

**December 2014 - May 2016**

University of San Francisco ASUSF VOICES Choir

- Conduct rehearsals for five various choir ensembles as large as 60 members and arrange pieces to fit voicing
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## Projects

### 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**

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### One-Stop Shop Regression Function

**Spring 2017**

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

Group Project

Created an open-sourced function that runs various regression algorithms to decide which algorithm gives the best results by comparing the accuracies via cross-validated results using **R** and **RMarkdown**

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### 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 using various regression algorithms using **R** and **RMarkdown**

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### Visualizing SFFD Records

**Spring 2017**

<https://usf-cs360-2017.github.io/midterm-p3/>

Group Project

Implemented multivariate visualizations exploring SFFD calls surrounding USF using **JavaScript**, **D3.js**, **Tableau** and **Github Pages**

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### 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

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