

# Jose G. Chavez

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XXXXXXXXXXXXX  
Email: XXXXXXXXXXXXX

## Links

Heroku: XXXXXXXXXXXXX  
LinkedIn:  
XXXXXXXXXXXXX

## Programming

### Languages

Python, Javascript, HTML,  
CSS, BASH, LaTeX

### Frameworks

Flask, React, D3

### Databases

SQLite, PostgreSQL, Mon-  
goDB

### Others

Markdown, Git, Vim

## Mathematics

### Subjects

Mathematical Logic and  
Combinatorial Set Theory

Real Analysis

Complex Analysis

Statistics

Topology

## Education

**Ph.D.**                      **Aug-2020**  
University of North Texas  
Subject: Mathematics  
GPA: 3.9  
Dissertation: Families of  
Non-Club Isomorphic  
Aronszajn Trees

**B.S.**                      **Aug-2013**

University of California Los  
Angeles  
Subject: Mathematics  
GPA: 3.1

## Professional Summary

Quantitative professional with experience coding in Python and JavaScript.

## Experience

**2008-2011   Calvert Street Elementary                      Role: Teacher's Assistant**  
Taught students supplementary lessons and oversaw various activities.

**2013-2020   University of North Texas                      Role: Mathematics Lab Tutor**  
Solidified concepts from a variety of undergraduate math courses including: Calculus 1-3, Differential Equations, Real Analysis, Modern Algebra, Topology and Statistics. Enjoyed working with a variety of personality types and backgrounds while aiding students in developing mathematical and personal skills.

**2013-2020   University of North Texas                      Role: Teaching Fellow**  
Taught courses in Business Calculus and Statistics (regression analysis, probability, estimation, confidence intervals, and applications). Developed personalized study plans during office hours.

**2021   Personal Tutoring, Learning Software Development                      Role: Other**  
Tutoring personally acquired clients in mathematics, and learning software development with an emphasis in JavaScript, Python (and related frameworks) for Data Science and REST API's.

**2021   Boston Education                      Role: Mathematics Tutor**  
Tutored mathematics over web platforms.

## Projects

**2021   Personal Website Powered by Flask and React**  
Developed a personal website with many features including:

- Bootstrap implementation/Responsive Web Design;
- Login system with SQLite database;
- Pdf file rendering;
- access to backend Flask API serving scikit-learn graphs and calculations and D3.

**2021   Restful API**  
Developed an API using Flask which:

- realizes RESTful principles,
- provides data pipelines for insertion of quizzes generated via Jinja's templating engine;
- stores quizzes and assessments in a MongoDB database;
- contains a secure login system for an administrator to query the database;
- pipeline to future Machine Learning tools to analyze the databases documents.

## Achievements/Awards

**2012   UC LEADS SCHOLAR**

Gained admittance to prestigious UC LEADS program while at UCLA. This program enabled me to network with researchers and provided a stipend for performing research while taking courses.

Also had the opportunity to present research topics and results at conferences such as SACNAS.