

## Alden Felix

### Narrative

Graduate student pursuing a Master of Science in data analytics with a concentration in socioeconomic analysis. Proficient in coding with R to collect, wrangle, and visualize data, perform and interpret regression analysis, and build machine learning models. Knowledgeable in writing SQL queries.

### Education

<b>Master of Science in Social Data Analytics and Research</b> <i>The University of Texas at Dallas, Richardson, Tx</i>	December 2023 (Expected) GPA: 4.0/4.0
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<b>Bachelor of Science in International Political Economy</b> <i>The University of Texas at Dallas, Richardson, Tx</i>	December 2022 GPA: 3.82/4.0, Magna Cum Laude
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### Relevant Coursework

Data Visualization	Database Management	Data Collection/Production
Machine Learning	Applied Regression	Statistics, Calculus
Econometrics	Mathematical Economics	Upper-Level Economic Theory

### Skills

**Data Analysis:** R, STATA

**Regression Analysis:** R - OLS, GLM, Continuous, Count, Dichotomous, Categorical, Bounded

**Data Visualization:** Tableau, R, R Shiny, R Markdown, R Quarto

**Data Collection/Query:** R, SQL, PostgreSQL

### Academic Projects

<b>Predicting Interstate Affinity using Machine Learning/Database Building</b> <i>Designed to generalize conflict prediction and assist the study of affinity communities &amp; network effects</i>	January 2023 – Present
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- Building original database to compile relevant variables that are spread across different sources
- Using OLS/LASSO, Random Forests, Gradient Boosted Machines, and Neural Networks for prediction

<b>Effect of Road Classification on Alcohol Related Crash Severity</b> <i>Designed to research the causal relationship between types of roads and the severity of alcohol-related crashes</i>	August 2022 – December 2022
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- Collected 27,000+ accidents in Collin County from Texas Department of Transportation
- Performed regression analysis using a logit model to answer hypothesis
- Built Shiny application for interactive exploratory data analysis and dashboard for presentation

<b>Exploring Human Mobility using Twitter Data</b> <i>Designed to explore effectiveness of twitter data for human mobility studies</i>	August 2022 – December 2022
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- Collected/scraped 1 million+ tweets using API and non-API methods
- Performed quantitative and qualitative analysis to explore effect of COVID-19 on mobility patterns

### Awards & Honors

Academic Excellence Scholarship, UT Dallas	August 2019 – May 2023
Hobson Wildenthal Honors College/CV Honors, UT Dallas	August 2019 - December 2022