STMATH 493: Data Visualization

Final Project Proposal

1. The Team

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1. Problem Statement and Background

Using permanent visa applications from 2011 to 2016, we would like to break down the significant information and present this in a storyboard, ending with a highly dynamic visualization which lets the viewer interact with the data. Bridge the gap of understanding with respect to U.S. Permanent Visa Applications, as well as provide information surrounding a contentious point of debate within American Politics.

1. Data Source(s)

We plan to use data from the following sources:

* City Locations: <https://simplemaps.com/data/us-cities>
  + Preprocessed: <https://github.com/SLPeoples/STMATH-493-Data-Analysis-and-Visualization/blob/master/Visualization4/us_cities_latlong.csv>
* Visa Applications: <https://www.kaggle.com/jboysen/us-perm-visas/downloads/us_perm_visas.csv>
  + Preprocessed: <https://github.com/SLPeoples/STMATH-493-Data-Analysis-and-Visualization/blob/master/Visualization4/us_perm_visas_edited.csv>

This will allow us to combine the visa applications and supplement the latitude and longitude using inner-joins.

1. Goals
   1. Which type of visa application is the most used?
   2. Which economic sector is attracting the most applications?
   3. From which countries are the most applications being received?
   4. To which states, or cities, are the most applicants being placed?
   5. For which industries are the salaries the most constant and/or most variable?
   6. What about the least (interactivity/ dynamic)?