Stat 5310 – Final Project

Due: Dec 11th, 11:59pm

The purpose of this final project is to put the tools and knowledge you have learned this semester to work.

**Overall Goal:** You will find a dataset, clean and tidy that data if necessary, explore and analyze the data, then present your results clearly and informatively in a report that you generate using RMarkdown (preferred) or Word **and** an R script.

* It is self-guided, you will need to find your own questions to answer.
* Select data that has enough information and material to demonstrate what you have and will learn. Depending on your story and the data you choose, you may need to learn new skills that I won’t teach in order to accomplish your goals.

**Project Report**: You will write a RMarkdown or Word document report that fulfills the requirements of the rubric below. You will find a dataset, explore and analyze the data, then present your results clearly and informatively in a report that you generate.

* Think about the story of your project: it should be logical and cohesive – not just a bunch of regression models for the sake of making models.
* Simple descriptive statistics alongside regression analysis can be powerful. It doesn’t need to be fancy to be interesting.
* Think about why data might be missing, is there story there?
* Are there subgroupings in your data, is there story there?

**Submission:** You will upload the final report, zipped together with the data, the code, and everything else used to generate the report (images or anything else).

* I expect to be able to be able to run your code and see where your results came from.
* Presentation is important! There is an extra challenge here because RMarkdown doesn’t have a spell checker – consider typing sections like your introduction and conclusion in a different document setting program like Word.