

Final Project

Stat 427

Fall 2020

***I* Directions**

Collect a research-type dataset and analyze the data using methods that are covered in our course. You should plan to use methods from at least three chapters in the text, including graphing, but it cannot be all about graphs with no analyses of sorts, or vice-versa. Your project is due in two parts. The first two issues listed below must be written up and turned in by Friday, October 30, while the final project will be a presentation (PPT or equivalent) with the possibly a livestream meeting to simulate an “in-class” presentation near the end of the semester (most likely dead week (week before finals week) if schedules permit). Your project should address the following issues:

***II* Introduction**

- (1) General information about the topic
- (2) The general hypotheses of interest; specify H_0 and H_a for the tests of major interest
- (3) The goals of the study, i.e., what it would contribute to knowledge in the field; relate it to other studies already done in the field

***III* Logistics**

- (4) What data will be used to address these hypotheses, how was the data collected
- (5) Describe the analyses that will be conducted

***IV* Analyses and presentation**

- (6) Report information that you have learned about the data from exploratory analyses (using, for example, linear model)
- (7) Generate plots to describe the data
- (8) Analyze the data and create a presentation of the main results from the analyses
- (9) Include the implications of your results for this field, and compare your results to other published results (most of this should follow from your results and the background information in part 1)