

# Lab 8

Stat 427

Fall 2020

## Instructions

Complete all questions. To prepare for the randomly collected lab, follow the instructions on the class website to prepare the work for submission. These submission rules will apply to all labs throughout the semester.

### R Markdown and packages

Your job is to take Lab 5 and to put it into an R **Markdown** file to create HTML output. Include a bit of text to describe the graphs in problem number 3. I have provided Lab 5 below for your viewing pleasure.

- (1) Read in dataset `tsunami.csv` (either save it and use `read.table()` or `read.csv()` or the website address with either `read` function). Graphically explore the relationship between `Magnitude` and `Avgslip`.
- (2) Separate out only the earthquakes that did produce tsunamis (`Y`) from those that did not. You should have two datasets when you are finished. Save the files.
- (3) Graphically explore the relationship between `Magnitude` and `Avgslip` by `tsunami`.