## Homework 4

For this assignment please turn in to Canvas a plain text file with your GitHub user name. You will then be assigned to peer grade another student's repository.

1. Create a GitHub repository for your class project and push all files needed to execute your data analysis project and produce a report to GitHub. Include a README.md file that contains detailed instructions on how to execute your analysis. This README should explicitly spell out what software/packages need to be installed prior to running the analysis and contain bash code that is required to execute the analysis. See the example repository for an example.

Your repository will be peer-graded for its clarity. You will be asked to download one of your classmates' repository and try to run their code.

Some hints: \* Avoid absolute paths. Note that if you run an R session from the command line, then the working directory for the session is whatever folder R was run from. \* When peer grading, don't chase down package install errors. If they happen, note them for your classmate, but no need to try harder. \* If the Rmd file errors, note the error in your grading.

For this to work, you may need to make your data anonymous. An easy way to do this in R is follows:

```
# say you have a data.frame called dat where rows are individuals
# and columns are features

# set a seed that only you know -- don't save it anywhere
set.seed(124125)
n <- nrow(dat)
new_dat <- dat
for(j in 1:ncol(dat)){
    shuffle_idx <- sample(1:n)
        new_dat[,j] <- dat[shuffle_idx, j]
}

# new dat now contains data formatted like your original data, but
# where each column has been randomly shuffled. use this version in
# your repository</pre>
```