**EEB590 Assignment**

Fall 2016

At the end of the semester, you should have the following folders and files in your GitHub repository.

Pink indicates you should have had this at the start of the class.

green indicates we’ve already discussed this, and you could do it anytime.

yellow means we’re still working on this.

1. AnalysisScripts
   1. Modeling.R – script(s) for analysis/modeling
2. Background
   1. Store papers/reports relevant to this project.
      1. Data management plan (use dmptool.org)
      2. Grant proposal
3. Data
   1. Raw (read-only, storage, not to be touched, pristine backup; should include scans of original data too)
   2. Tidy (intermediate and final R datasets, could also be called Rda or working)
4. DataWrangling
   1. DataAcquisition.R – script for compiling all data files into a single dataset
   2. DataMunging.R – script for munging data into a usable database
5. Docs
   1. Analysis\_Outline document (from first week of class)
   2. “Study overview” document
      1. section called “code book” or “data dictionary” describes the purpose and type of data for each variable in the database.
      2. section called “study design” or “protocol” describes exactly how the study was conducted.
   3. Generated documents from analyses - Rmarkdown, word docs, ppt.
      1. Should have one generated RMarkdown document from each of these scripts (DataMunging, modeling, figures)
      2. Word document with the analysis section of your methods, your results section, and any associated figures and tables.
6. FiguresScripts
   1. Figures.R - holds code for final figures for paper
7. Graphs
   1. Folder where you store graphics output (pdf, png, svg)
8. (OPTIONAL) Lib (enables you to do the common things once.)
   1. R - custom R functions written for the project or used in this project
   2. Tests- unit testing files for custom functions
   3. Packages.R - state what other packages needed for this project
   4. Reload.R - function which automatically loads functions in lib and all packages, so one command produces everything needed to run the project.
9. ReadMe
   1. Write down the driving questions and purposes of the project, as well as any notes important for running the code/remembering what you did and need to do.