**EEB590A Assignment**

Fall 2019

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

Pink indicates materials produced outside of this class (optional)

Green assignment during this class (required)

1. In-Class Assignments – save your own version of the assignment into your folder
   1. R-introduction\_part3
   2. DataWrangling\_part1
   3. DataWrangling\_part2
   4. Data exploration visualization\_exercise
   5. Data exploration Day2
   6. Simulation script – (create your own)
   7. Linearmodels\_exercise1
   8. Linearmodels\_exercise2
   9. Ggplot\_exercise1
   10. Mapping script (create your own)
2. \_AnalysisScripts
   1. Analysis.R – script(s) for analysis/modeling
3. \_Background
   1. Store papers/reports relevant to this project.
      1. Data management plan (use dmptool.org)
      2. Grant proposal (if relevant)
4. \_Data
   1. Raw (read-only, storage, not to be touched, pristine backup; should include scans of original data too)
   2. Tidy (intermediate and final datasets)
5. \_DataWrangling
   1. DataAcquisition.R – script for compiling all data files into a single dataset (may be combined with datawrangling script below)
   2. DataWrangling.R – script for munging data into a usable database
6. \_Docs
   1. Analysis\_Outline document (from first week of class)
   2. “Metadata” document
      1. section called “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
      1. Word document with the analysis section of your methods, your results section, and any associated figures and tables.
      2. Your powerpoint presentation for class
7. \_Graphics
   1. Graphics.R – script with code for final figures
   2. Graphics output (pdf, png, svg)
8. \_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.

**Summary of key assignments:**

* Analysis\_Outline document
* Data management plan
* DataWrangling.R – script for munging data into a usable database
* Tidy data (intermediate and final datasets)
* Analysis.R – script(s) for analysis/modeling
* Graphics.R – script with code for final figures
* Graphics output (pdf, png, svg)
* Word document with the analysis section of your methods, your results section, and any associated figures and tables.
* Your powerpoint presentation for class