

NC STATE UNIVERSITY

CROP AND SOIL SCIENCES

CS 590 Special Topics

Programming and Data Science for Applied Research

Course Project – Finals (12/16)

Goal: In anticipation for manuscripts, conference presentations or general lab meetings, the purpose of this project is to begin, continue or finalize the development of [a] publishable figure(s).

Requirements:

1. The figure(s) must be developed using programming skills/tools acquired from this class while incorporating a new skill or tool (i.e. function, visual package, modeling technique, etc.) into an R or Python script. This can be something within an R or Python library, user defined functions or a Tableau figure that was not presented in the class.
2. The script for developing the data analysis and figure must be clearly annotated and demonstrated (or described) to the class including use, arguments and output.
3. The script and the figure must be uploaded to Github.com for the content to be accessible and downloaded via other students – NOTE: The script DOES NOT have to be done using Jupyter Notebooks/Binder but would be recommended for collaboration efforts.
4. The project needs to be presented to the class (< 5 mins) and will be evaluated on the following
 - a. Content
 - b. Organization
 - c. Presentation

****NOTE****

The purpose of this project is simply to allow students to work on their research data and to be ready to present these figures to the scientific community. The role of a researcher is not only to conduct concise experiments that lead to scientific understanding and discovery, but to be able to present these research findings clearly and meaningful to the layman. Practice makes perfect!

YOUR CONFERENCE PRESENTATION

HOW YOU PLANNED IT:



HOW IT GOES:

