STAT 532 Final Project 2019

Project Guidelines

Presentations will take place the schedule final presentation day: 8 AM Friday December 13. In addition to the course presentation every speaker must also submit a project summary. The project is worth 20% of the course grade. Evaluation for the project will be based on the following:

1. **Class Presentation:**
    - The presentation should be approximately 8-10 minutes and I will cut you off if you go over time. Practice is your friend here, make sure to practice your talk at least 2 times before presenting in class.
    - The general target for the audience is that of your classmates.
    - The presentation should provide an overview of the problem studied and give the basic notation necessary for understanding the approach presented in the paper or taken in the data analysis. Giving short presentations is a skill and all relevant mathematical details cannot be covered.
2. **Project Summary:**
    - The project summary should describe the problem and provide all appropriate details, including those that might have needed to be omitted during the short presentations.
    - There is no formal length requirement, but the summary should include the following sections:
        - **Introduction**
            - What research question you are attempting to answer
            - Discussion of why this research question is important or interesting
        - **Data**
            - An descriptive overview of the data set
            - Exploratory data graphics
        - **Model**
            - A description of the model with clear mathematical notation
        - **Computing**
            - A description of the computational techniques (Stan/ JAGS / your own algorithm),
            - inline code for model fitting (if the model fitting code is not compact - it can be placed in an appendix)
        - **Results / Discussion**
            - A summary of the results - not simply discussing credible intervals, but what are the implications for your problem given the statistical model.
    - The project summary should be a reproducible document that includes all necessary code.