AS.280.347
CLASS 3.2

- Present your ideas/work!
- Work on your projects!

Your Project Design

- Question:
- Data set and design
  - Outcome:
  - Predictor variables of primary interest:
  - Effect modifiers:
  - Confounders:
- DAG:
- Primary analysis to address question:
- Communicating results in tables, figures

Issues You've Run Into…

- **Reading the data into R**
  - File Type (.txt, .RData)
  - Format

- **Exploring the data**
  - Not having *exactly* what you want
  - Ran into issues cleaning/exploring the data
    - Column names?
    - What portion of data set to use?
    - Differing number of rows

When presenting your work:

- Discuss analysis idea (what's your question?)
- Discuss problems you ran into (and solutions if you have them!)
- Describe your:
  - Data
  - Data Cleaning
  - Exploratory Data Analysis
- To provide feedback:
  - Ask questions
  - Make suggestions for improvement!

Important dates

- **April 15 & 22:**
  - Keep working; we'll continue to have you present your work in class. You should submit an assignment (Rmd file and either data or knit file) each Sunday night showing your current progress and any questions you might have!
- **April 29:**
  - Each person will present their results to the class. You will have ~3 minutes to talk about your project. You should prepare ~4 slides to aid in your presentation:
    - Slide 1 will have your question, your data set, and your design (outcome, predictors, confounders, etc).
    - Slide 2 should have a DAG showing your proposed relationship with confounders/modifiers included.
    - Slide 3 show be a data display that addresses your question.
    - Slide 4 should show the results of a statistical analysis to answer your question.
    - You should submit these slides Sunday night through Blackboard before coming to class.
- **May 14 (Tuesday):**
  - Your written report for your project is due at midnight through Blackboard/GitHub. For each question of interest, you should have a data display and a statistical analysis to address the question. Write up your results in a few paragraphs to answer your questions. In your write-up, you should refer to your data displays(s) and your analysis results. Be numerate!

Assignment 3.3 – Keep working!

- Submit your current work in R markdown through GitHub by Sunday @ midnight
  - Rmd file and either dataset or knit html file
- Include any specific questions you have or places where you are stuck
- Be prepared to present (talk about) your work in class on Monday

- If you are struggling or want to talk through your project/code please come to office hours!