**MSDS 6306: Doing Data Science**

# Live session Unit 02 assignment Due: 11:59pm Monday May 20th

**Submission**

**ALL (non-swirl) MATERIAL MUST BE KNITTED INTO A SINGLE, LEGIBLE, AND DOCUMENTED HTML DOCUMENT.** Formatting can be basic, but it should be easily human-readable. Unless otherwise stated, please enable {r, echo=TRUE} so your code is visible.

**Questions**

1. (30 points) Put the following questions into RMarkdown as headers (or subheaders if you’re making question numbers headings). Be sure to answer the questions underneath each header.
2. What is a basic workflow for reproducible research?
3. What are five practical tips for making research reproducible?
4. Give an example of how you might implement each tip.
5. Which one of these do you think will be the most difficult?
6. (35 points) Download and complete “air\_hist.R” code. You will build scatter plots using the plot function.
   1. As described in the “TODO Assignment 2: Question 2a” comment, complete the plot function regarding monthly temperature.
   2. As described in the “TODO Assignment 2: Question 2b” comment, complete the plot function involving ozone.
   3. Translate these to RMarkdown and put them in your overall homework RMarkdown file.
7. (35 points) Download and complete “knit\_cars.Rmd”.
   1. As described in the “TODO Assignment 2: Question 3a” comment, complete a plot function for Temperature and Pressure
   2. As described in the “TODO Assignment 2: Question 3b” comment, complete a similar plot function that reverses the two axes.
   3. This is written in RMarkdown, so just transfer it to your RMarkdown script.

**Reminder**

To complete this assignment, please submit **one** RMarkdown and matching HTML file that includes questions 1-3. Please submit all files at the same time; only one submission is granted.

Have Fun!