**DATA 210G Elements of Data Science (with R)**

**Primary Reading Material with Exercises**

“R Programming for Data Science” by Roger D. Peng, 12/22/2016, published by leanpub.com, <https://leanpub.com/rprogramming>

“R for Data Science: Import, Tidy, Transform, Visualize and Model Data”, 1st edition, by Wickham and Grolemund, published by O’Reilly media

<https://www.amazon.com/Data-Science-Transform-Visualize-Model/dp/1491910399>

**Supporting Videos and Lectures**

[R Programming via Johns Hopkins University](https://www.youtube.com/playlist?list=PL_bgmYHGITt-8Noh1fZpxTHJ-GrBb626R)

[Some Helpful Examples](https://www.youtube.com/playlist?list=PL2czy8u8hfA0I_SxksaQofVp-O8iOW4Z8)

[RMarkdown – Submitting Projects For Class](https://www.youtube.com/watch?v=DNS7i2m4sB0)

[RMarkdown – Submitting Projects For Class (Another Example)](https://www.youtube.com/watch?v=PP8WvZ8LgJ8)

[Plotting with ggplot2 part one](https://www.youtube.com/watch?v=HeqHMM4ziXA&t=17s)

[Plotting with ggplot2 part two](https://www.youtube.com/watch?v=n8kYa9vu1l8)

[Another Intro to ggplot2 in R](https://www.youtube.com/watch?v=1GmQ5BdAhG4)

[Tidyr Package and Tidy Data](https://www.youtube.com/playlist?list=PLjlfH4g8Kk-JCHOIdVm2_88TLQzgOIU4Z)

**Data For Use With Videos and Tutorials (If not already in RStudio)**

[MAACS data set](https://github.com/lejarx/MAACS-dataset/blob/master/maacs.rda)

[US County Data Set](https://www.openintro.org/stat/data/cc.php) (already tidy)