

Research Methods in Political Science I, Homework Assignment 8

Due: 9pm on 2 December 2015

How to submit: Send as email attachments

Email subject: Research Methods 1, Assignment 8

File names: hw08-YourName.pdf

1. Run the multiple regression(s) you ran for Assignment 7 again. *Remember to provide substantive interpretation of the result(s).*

If necessary, transform some of your variables in order to get the results that we can interpret easily. You are expected to provide good-looking figures and/or tables as well as explanation in words. It is strongly recommended that you make figures with ggplot2 in R and write up your results with \LaTeX , though not required.¹ At this point, you do not have to show theoretically meaningful results. Just show that you understand how you should interpret linear regression results *and* how you should present your results to communicate well with your readers.

2. Modify your model(s) (e.g., add more predictors) in order to get the smaller standard errors (or smaller p values) for the coefficient estimates.
3. Read Gelman and Loken (2013) http://www.stat.columbia.edu/~gelman/research/unpublished/p_hacking.pdf. Are the results obtained in Question 2 better than those in Question 1? Why or why not?

¹Figures look better in PDF than in another format. While \LaTeX can include PDF figures, Microsoft Word is poor at handling with PDF figures. In addition, it is easy to create \LaTeX tables with R as shown in class, so we can save time by using \LaTeX . If you use R Markdown, do not forget to make your tables look better than normal outputs.