

Psychology 8031

Assignment 4 – Due October 2 by 5 PM

Use your OWN data for the purposes of this assignment. You do not need to rely on the same data/variables for each portion of the assignment. For each portion of the assignment, state the specific research question that is being tested. The goal of the assignment is to engage the methods; the interestingness of the results is not the focus.

1. Conduct an analysis examining an interaction between two variables (with or without covariates). These can include either two continuous variables, two categorical variables, or one categorical and one continuous variable. Write a complete results section and include all relevant tables (including a full correlation matrix with means and standard deviations) and produce the relevant figure for the interaction. If the interaction that you examine is non-significant, continue with the exercise of plotting and estimating simple slopes for purposes of the assignment.
2. In completing the assignment, you should estimate the interaction effects the “hard” way **and** the “easy” way. You should find that these approaches match. Provide your full R script to show all work.