PSY652, Unit 4, In class activity – Exploring SLR with Pease Replication Variables

Dataframe: MIDUS

Build inside your pease\_replication notebook for this activity. Follow my pease\_replication\_atUnit4 notebook to accomplish the following tasks.

1. Add the following packages to your “Load libraries” code chunk. Notice there is one new package, GGally, so install it first, then load all of these with the library statement.

library(olsrr)

library(descriptr)

library(modelr)

library(tidyverse)

library(mosaic)

library(GGally)

1. Create a correlation matrix of your assigned anger variable and the big 5 personality scales. Take a look at the scatterplots and correlations. Choose one of the personality variables to hone in on.
2. Subset your data to include just your anger variable and the selected personality variable, and only cases with no missing data.
3. Get descriptive statistics for each of your variables.
4. State the null and alternative hypothesis for the association between your personality variable and your anger variable.
5. Set alpha and obtain the critical value of t.
6. Center your personality variable at the mean, and then fit the linear regression model. Regress your anger variable on your personality variable. Interpret the output thoroughly.
7. Get a scatterplot of your anger variable (on the y-axis) and your personality variable (on the x-axis), include the best fit line, and both a confidence interval and prediction interval.
8. When all is working smoothly, click RESTART R AND RUN ALL CHUNKS, then preview your notebook. If it looks good, then have one person from each group copy your notebook output to the PSY\_RMswap folder.