

## Psychology 8031

### Assignment 1 – Due September 11 by Noon

- I. Find a dataset
  - a. Describe the dataset that you have located. This will ideally be a single dataset that you can use for homework assignments throughout the course.
  - b. Ideally the dataset will have:
    - i. At least 100 participants
    - ii. At least 3 within-person assessments
      1. e.g., trials from within a task, longitudinal assessments, multiple measures of the same broad construct
    - iii. Variables
      1. Multiple continuous variables
        - a. To serve as independent and dependent variables
      2. Some categorical (or polytomous) variables
        - a. To serve as independent and dependent variables
      3. Individual questionnaire items that have 4+ Likert responses
  - c. Describe data screening that was conducted on the dataset
    - i. What univariate tests were conducted?
    - ii. Were any transformations conducted?
    - iii. Are there any problems with missing data?
- II. Conduct:
  - a. A simple bivariate correlational analysis
  - b. A regression analysis with one predictor variable.
    - i. For the regression analysis, use the raw independent and dependent variables in one analysis. Then standardized independent and dependent variables and repeat the regression analysis.
  - c. Provide a brief description of how the results of the bivariate correlation yields the same results as in the bivariate regression models.
- III. For this assignment, complete tables/output is not necessary. However, upload your R script and tiny dataset to Canvas.

\*Working with R: If you encounter difficulties lasting more than 30 minutes, STOP and seek some help! That can be seeking help from a peer or me!