PSY653, Unit 12, In class activity – Self-Enhancement and Depression

Dataframe: self\_enhance.csv

In this activity you will examine data from the following published study:

Gaertner, L., Sedikides, C. & Chang, K. (2008). On pancultural self-enhancement: Well-adjusted Taiwanese self-enhance on personally valued traits. *Journal of Cross-Cultural Psychology, 39,* 463-477.

The file represents data from 60 Taiwanese undergraduate students who were asked to rate themselves on 14 personal traits (e.g., respectful, compliant, unique, etc.). They rated how well each trait characterized themselves relative to a typical Taiwanese student. They also rated how important each trait was to them.

The following variables are included in the file:

**id**: student ID

**enhance**: the repeated self-enhcement score for each trait (Level 1 outcome)

**import**: the repeated importance score for each trait (Level 1 predictor)

**depressed**: a binary indicator of depression (Beck’s Depression Inventory), 1=above average, 0=below average (Level 2 predictor)

**wellbe**: a continuous measure of well-being (Subjective Well-Being Scale) (Level 2 predictor)

In this initial activity you will explore the variability of enhance and import, calculate the ICC’s of each, and create a plot to examine the covariance of the two variables for each student.

1. Please create a new notebook called SelfEnhanceNotebook.
2. Create a first level header called: Load libraries. Add a code chunk, and import these packages: tidyverse, broom, modelr, lme4.
3. Create a first level header called: Import data. Add a code chunk, and import the dataset called self\_enhance.csv.
4. Create a first level header called: Format data. Add a code chunk, and create factor versions of the id variable and depression.
5. Create a first level header called: Explore variability of self-enhancement. Add a code chunk. Set the fig.height to 6 and the fig.width to 12. Create a boxplot, put your factor for id on the x-axis and enhance on the y-axis.
6. Create a first level header called: Fit a random intercept model for self-enhancement. Add a code chunk, estimate a random intercept model for enhance and calculate the ICC.
7. Create a first level header called: Explore variability of importance. Add a code chunk. Set the fig.height to 6 and the fig.width to 12. Create a boxplot, put your factor for id on the x-axis and import on the y-axis.
8. Create a first level header called: Fit a random intercept model for importance. Add a code chunk, estimate a random intercept model for import and calculate the ICC.
9. Create a first level header called: Explore covariance of self-enhancement and importance across students. Add a code chunk. Set the fig.height and fig.width to 12. Create a scatterplot of import (on x-axis) and enhance (on y-axis) facetted by id (i.e., so you obtain one scatterplot panel for each student).









