Hi Everyone,

I've uploaded the data set corresponding to the slides I mentioned in my last email.

For practice, I suggest analyzing the data toand making a write-up similar to the slides (but you will need to add confidence intervals as discussed in my last email). The slides are SPSS but you should find it easy to do the same analyses in R after last week.

The lecture slides/data are about a scenario where you want use GMA (General Mental Ability / IQ) as a way of selecting employees. For various reasons, you can only use GMA and one other predictor to select people. You want to determine if that prediction should be consciousness, assessment centre ratings, or handwriting analysis (graphology). There for you conduct three regressions and look at the sr2 information as perf the slides.

Note that you can also do this analysis as an hierarchical regression and look at the delta-RSQ.

More formally:

1) Answer each of the three questions in the slides using a single regression (as per the slides) by examining sr2

2) Answer each of  the three questions in the slides using two block regressions as below.

Block Regression Example:

block1 = lm(jobperf~gma,data=mr\_data)

block2 = lm(jobperf~gma+con,data=mr\_data)

apa.reg.table(block1, block2)

3) In the end you will decide to use GMA and conscientiousness. What is the confidence interval for predicted performance scores at the mean GMA and mean conscientiousness?

4) What is the prediction interval for predicted performance scores at the mean GMA and mean conscientiousness?

The data file is SPSS (.sav) so you will need to use the haven package and the corresponding read\_sav command to read the data.

I hope this practice activity helps!