

## PSC205A Assignment 05: CFA

\*\*\*Please, upload your assignment to CANVAS as “HM5\_LastName” Thanks!\*\*\*

In this assignment we continue with the emotion data from last week but we will ask more focused questions.

The file “emotion\_short.csv” contains data from 364 individuals on the PANAS (Positive and Negative Affective Scale). The variables in the data set are:

id female (0 = male; 1 = female)

interested irritable distressed alert excited ashamed upset inspired strong nervous  
guilty determined scared attentive hostile jittery enthusiastic active proud afraid

Based on the results obtained from factor analysis in your previous assignment (HM 4):

1. Conduct a CFA on the data to formally test the solutions that you obtained for each gender group (e.g., 3 factors for males; 4 factors for females)
2. Compare these results with at least one other alternative model for each gender group (e.g., 2 factors for males; 3 factors for females) and indicate which of the models is a better representation of the data and why.
3. Draw a path diagram representing your selected model for each group.
4. Create a table reporting the information from your selected model for each group.
5. Write the expectations for the variances and covariances for your selected model (for each group).
6. Write a brief summary of your findings considering both methodological issues and theoretical notions.
7. Extra. Carry out an analysis that formally compares the affect structure of males and females.