PSY 315f

Assignment #2

Due Monday, September 23rd

Researchers were interested in whether positive attitudes towards leading a specific group were due to one or more latent factors. Twenty questions were created to assess positives attitudes toward leading specific groups (see the next page for all questions). Responses are scaled from 1 = “Not very much” to 9 = “Very much” for **variables “Pos1” to “Pos20.”** Age and Gender are also included in this data set, as well as other variables that were included in a separate research project.

Your task is to factor analyze the 20 positive attitude variables—**"Pos1” to “Pos20”**—and write up a report of your findings. Compare at least two extraction techniques (e.g., principal axis factoring, maximum likelihood, generalized least squares, or unweighted least squares) in your analyses. Don’t present every possible analysis in your write-up, but do provide a rationale for your decisions and how you arrived at your preferred solution. Attach all relevant **annotated** output as an appendix to your homework.

Write an APA-style report based on your preferred solution. Furthermore, please include 3 tables: (1) Descriptive statistics for all variables (mean, SD, skew, and kurtosis), (2) Full correlation matrix, (3) Factor pattern (suppress values less than .30). Also include a scree plot and a parallel analysis plot. For all statistics please report values with 2 decimal places, e.g., *r* = .45

\* Note: we will only grade on factor analyses that are done on variables **"Pos1” to “Pos20.”** Analyses using other variables within the data set will be ignored.

Questions in this data set. Note: the number = the number represented in the variable name (e.g., “1” = “Pos1”)

1. How important is it for you to lead this group?
2. How likely are you to lead this group in the future?
3. How much do you intend to lead this group?
4. How much do you want to lead this group?
5. How much do you want to become a leader for this group?
6. How important is being a future leader of this group to you?
7. How important is it to become a future leader of this group?
8. How effective do you think you would be at leading this group?
9. How useful would you be at leading this group?
10. How successful do you think you would be at leading this group?
11. How much would the group benefit if you became its leader?
12. How good do you think you would be at leading this group?
13. How much do you think other group members would appreciate you if you led this group?
14. How much would the group benefit from you leading this group?
15. How much would you benefit from leading this group?
16. How ready are you to lead this group?
17. How likely are you to succeed at leading this group?
18. How likely are you to succeed if you were to lead this group?
19. How appreciative would other group members be if you led this group?
20. How happy would you be if you were to lead this group?