

## Public Opinion Polling Practicum: Data Assignment 1

Directions: Answer each of the following as thoroughly as possible. Your answers must be typed in their entirety. *Do not copy and paste output from your R console into your written work.* Each of your tables and figures should be as readable as possible. This means cleaning up labels such that a layperson could read them, using intuitive graphics, and so on. At the end of your assignment, please copy and paste all of the R code needed to replicate your results. Your work is due no later than 11:59:59 pm on March 24, 2022 via email. To complete this assignment, click on [this](#) link for data and its codebook.

1. What is the level of measurement for each of the variables in the dataset?
2. What is the mean age and income of respondents? What is the median partisanship, education, and gender of respondents? What is the modal race?
3. Create a histogram that shows the age of respondents. Interpret what you seen.
4. Generate a new variable that takes the value of “1” if a respondent has at least a bachelor’s diploma, “0” otherwise. What proportion of respondents have at least a bachelor’s diploma?
5. Generate a new variable that takes on the value, “nonwhite” for any respondent who is not white, “white” otherwise. What percentage of respondents are nonwhite?
6. Create a barplot that shows the race of each respondent in the dataset. Interpret what you see.
7. Create a figure that shows boxplots for a respondent’s income over their level of education. Interpret what you see.
8. Create a scatterplot that depicts a respondent’s age on the x-axis and their income on the y-axis. Add a trend line to the figure. Explain what you see.
9. Create a table that depicts respondents’ race on the rows and their partisanship on the columns. For each cell entry, show the raw count of respondents along with row percentages in parentheses. Interpret these results.
10. Copy and paste all R code needed to reproduce your results here.