**PROJECT MILESTONE 1: HONORS SUPPLEMENT**

**Instructions**

1. This submission is only required for students taking STAT 479 for honors credit.
2. Write-ups must be no longer than 1 page, 1.5x spaced, 11 point font.

**Description**

Please provide a brief response to the two questions below. They will help guide the honors assignments that are given over the remainder of the semester.

1. What are some of your longer-term goals? From your participation in the honors program, what skills are you hoping to develop?
2. Provide a ranking of the following potential honors assignments. Provide a brief explanation, and let us know if there are some topics that you would especially like / dislike,
   1. Visualization in scientific research: I would ask you discuss the use of visualization within a few scientific papers. I would give pointers, like in exercise 1.2.
   2. Visualization in journalism: I would ask you to discuss the use of visualization in a few news articles. I would give pointers, like in exercise 1.2.
   3. Reading review papers: You would read a recent review paper on a research topic within data visualization; e.g., advances in visualizing [networks](https://search.library.wisc.edu/article/cdi_hal_primary_oai_HAL_hal_01944505v2).
   4. Reading perspective pieces: This would involve reading and discussing non-technical essays by leading researchers in data visualization (here is an [example](https://hdsr.mitpress.mit.edu/pub/w075glo6/release/2)). They often present a higher-level vision for the future of visualization.
   5. Studying historical visualizations: I would share a list of notable historical visualizations (e.g., those by Charles Joseph [Minard](https://en.wikipedia.org/wiki/Charles_Joseph_Minard)). I would ask you to comment on the purpose and design of the visualization and try gathering lessons for modern applications.
   6. Public Code Analysis: I would identify a small list of advanced visualizations using techniques discussed in class and whose code is publicly available (e.g., code in this [repository](https://github.com/tidyverts/tsibble)). I would ask you to read through the main parts of the code and provide commentary about new techniques you have learned.
   7. Tutorials for advanced visualization: I would share tutorials for topics or packages that are not discussed in classes and ask you to prepare structured notes on the topic. E.g., I might choose some tutorials from the recent IEEE Vis conferences or the Bioconductor Visualization portal.

For any of these assignments, I would be available to answer questions in writing or during meetings as you study the topic. The assignments would all be graded credit / no credit, and their purpose is more to guide your exploration, rather than provide additional evaluation.