*Section.* Method

Describe the research question(s), variables of interest, and conditions under which you will study these variables. Research questions are often provided earlier in the paper (e.g., in the introduction section), but for the purposes of this assignment, we will describe them here. Your assignment and write-up will significantly improve if you search for and study example experimental papers in HRI from class readings or elsewhere.

*Subsection.* Hypotheses

Describe your hypotheses—a description of the relationship between your independent and dependent variable. You will also have to justify your expectations (e.g., from related literature or through logical reasoning).

*Subsection.* Experimental Design

Experiments are designed to test hypotheses. The description of your experimental design should start with the motivation to test the previously stated hypotheses. This section should also include information on the design of the your experiment, factors that you are measuring or manipulating, the manipulations in these factors, and control conditions or variables.

*Subsection.* Experimental Task

This section includes a description of your experimental task. For instance, if participants are interacting with a robot, you need to describe the context of the interaction, the robot’s actions, the goals of the task, and a discussion of how your relates to the real-world conditions you are interested in studying.

*Subsection.* Experimental Procedure

One of the goals of scientific papers is to document your research process so that others can replicate or extend your methodology. This section should include a description of all the steps involved in conducting your experiment from when informed consent is sought to what experimenters tell participants.

*Subsection.* Measurements

This section should describe two key measurements: measurements of whether your manipulations were successful and those of the response variables. These measurements could be in the form of objective (what can be compared against objective standards), behavioral (what can be observed), subjective (what participants report), and physiological (what can be measured through sensors).

*Subsection.* Participants

In this section, include a description of your participants. What group does your experiment target? How do you sample a representative population? Who do you have access to? What age, gender, occupation, personality, or familiarity characteristics are you looking for?

*Section.* References

If you have any literature you are citing, provide them here. References can extend beyond the one-page limit.