

Correlational Study Design Exercise

Design a study to address a research question that can be answered by testing the relationship between two continuous (interval/ratio) variables. (Hypothesis would be tested with a correlation, probably using Pearson's r . You could also test it with regression.)

Example questions:

- What happens to y when x changes?
- Do people with increasing x have more or less y ?
- Is x related to y ?
- Is there a negative/positive association between x and y ?

Research question:

Alternative answers to the question and why they are plausible (believable):

(must be at least two alternatives—scenarios that would occur in different ways your question can be answered)

Variables:

Constructs and how you will measure them. **construct = a framework used to describe psychological phenomena, such as behavior, emotion, or experience (e.g., happiness, agreeableness, laziness...)

Hypothesis:

Research hypothesis and statistical hypotheses (null and alternative)

Logic:

(If ... then statements about what the data will look like in each of the alternative scenarios described above. You can draw pictures!)