

rnn word order - human ratings (#12748)

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1) Have any data been collected for this study already?

No, no data have been collected for this study yet.

2) What's the main question being asked or hypothesis being tested in this study?

Human ratings for sentences demonstrating Heavy NP shift, genitive alternation, and dative alternation will mirror surprisals derived from LSTM language models.

3) Describe the key dependent variable(s) specifying how they will be measured.

Acceptability ratings of sentences.

4) How many and which conditions will participants be assigned to?

Heavy NP shift has 32 items in 8 conditions; dative alternation has 16 items in 32 conditions; genitive alternation has 16 items in 8 conditions. Participants see one item per condition according to a Latin square: note that in the Heavy NP shift case this means that no participant sees all the items. There are also 32 filler items.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.

We will measure how the strength of preference for one alternand over another is affected by the experimental conditions by looking at the difference in acceptability rating from one form to another and predicting it using linear regression.

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.

We will remove participants scoring less than 80% on comprehension questions.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.

We will collect ratings from 64 participants.

8) Anything else you would like to pre-register? (e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)