Interpreting scalar quantifiers in context: Mouse-tracking evidence for the role of real-time social reasoning

- Wei Li, Hannah Rohde, Martin Corley

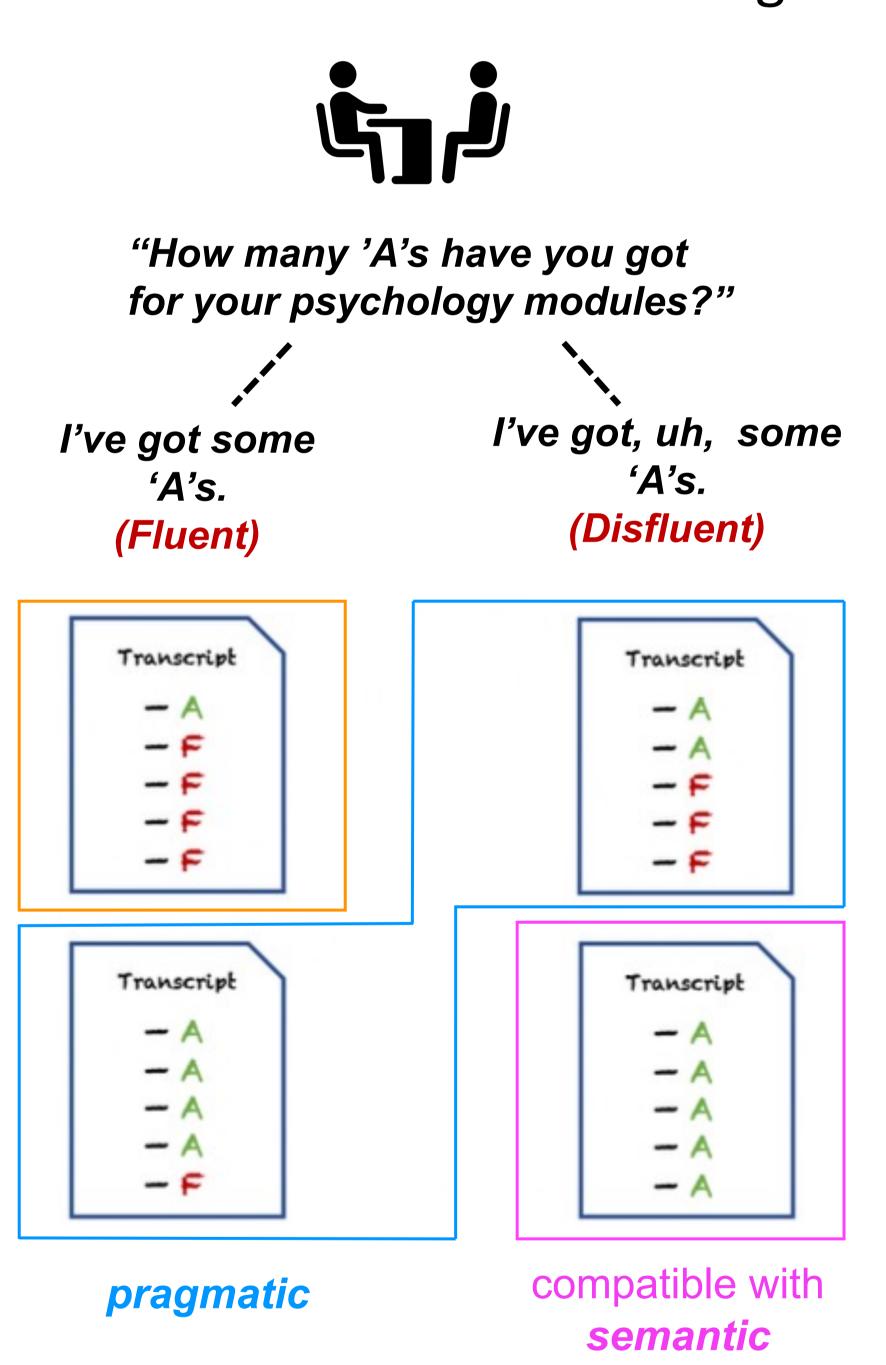
INTRO

When admitting to (eating) 'lots' is undesirable, listeners commit to a semantic interpretation of some following a disfluency (Loy et al., 2019).

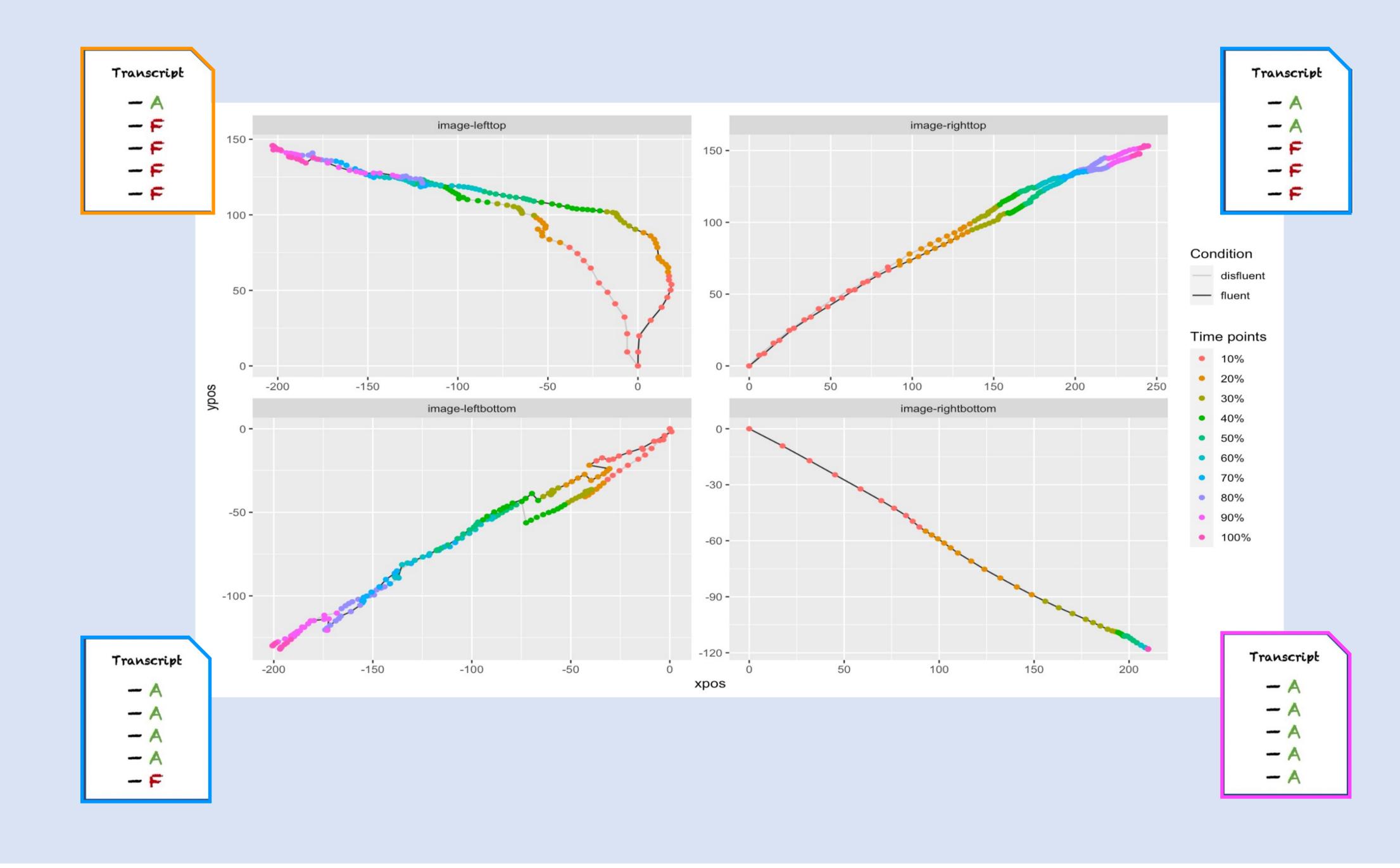
- 1) Is this a simple bias from disfluency?
- 2) Or does it reflect rapid reasoning from the context?

METHODS

- Job interview ('lots' is desirable)
- Web-based mouse-tracking task

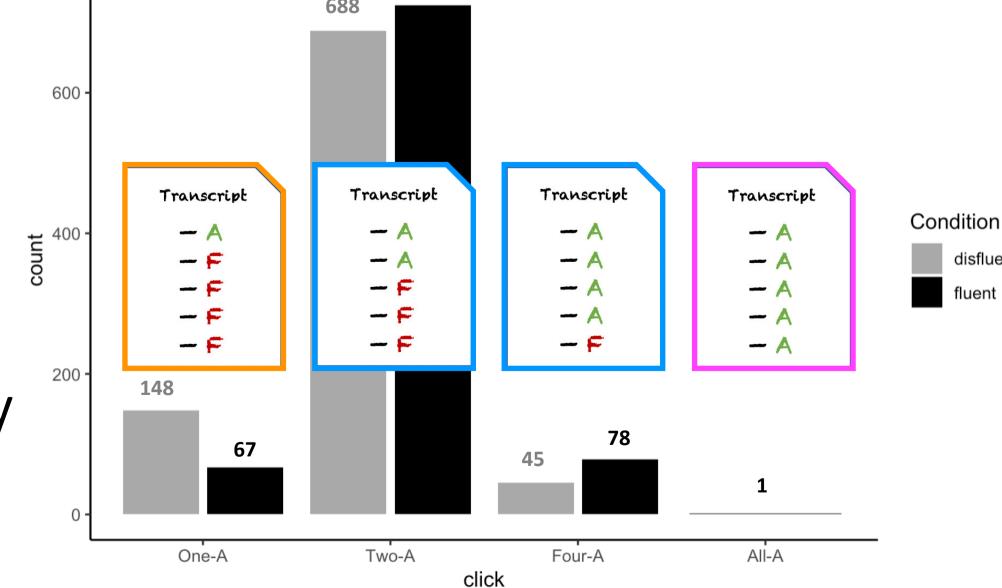


Listeners integrate context quickly in real-time reasoning about meaning.



RESULTS

- More likely to click on one-A image following a disfluent utterance (p < 0.001)
- One-A clicks suggest that the speaker uttered some to convey (desirable) 'lots' when truth is really (undesirable) 'few' 'A's.



DISCUSSION

- Listeners take the social context into account when reasoning about the interpretation of scalar quantifier some.
- reasoning happens quickly utterances are disfluent, listeners make the decision to click on one-A target very quickly).







