

## The facts

- German LD subject questions are less acceptable than LD object questions, likely caused by a **COMP-trace violation**.

[Welch-er Schriftsteller]<sub>i</sub> denkst du, dass t<sub>i</sub> den Verleger geschätzt hat?  
Which-NOM author think you that the.ACC publisher appreciated has  
'Which author do you think (\*that) respected the publisher?'

[Welch-en Schriftsteller]<sub>i</sub> denkst du, dass der Verleger t<sub>i</sub> geschätzt hat?  
Which-ACC author think you that the.NOM publisher appreciated has  
'Which author do you think (that) the publisher respected?'

- Difference in acceptability reduces when the wh-phrase or embedded DP is case-ambiguous (Kiziak 2010).
- German differs from English, where COMP-trace violations are categorically rejected.
- What causes this difference between German and English? What role do local case-ambiguities play?**

## Hypotheses

- German doesn't have COMP-trace violations, subject/object asymmetry is purely parsing-related, due to a matrix clause agreement clash (Haider 2007).
- German does have COMP-trace violations, but these violations are harder to detect (Featherston 2005, Kiziak 2010).
  - German word order doesn't differentiate between subject and object readings, case marking is crucial.
  - Case marking is often ambiguous, leading to local ambiguities.
  - Local ambiguities may lead to global ambiguities under the assumption of 'good enough processing' (Ferreira & Patson 2007).

## Research questions:

- Do parsing problems occur in the main clause (Hypothesis A) or in the embedded clause (Hypothesis B)?
- Do readers misinterpret LD subject as LD object questions and vice versa (Hypothesis B)?
- Do local case ambiguities cause misinterpretations (Hypothesis B)?

## Method

- Self-paced reading followed by comprehension task
- Factors:
  - Ambiguity:** No Ambiguity (NoAmb), MatrixAmbiguity (MatrAmb) and Embedded ambiguity (EmbAmb).
  - Argument:** Subject vs. object.



## Design

- 8 items per condition, divided over 2 lists
- 48 filler items
- 30 native speakers of German (23 female, mean age 22 years)
- Segments presented non-cumulatively in the centre of the screen.

|          |         |       |     |      |       |        |     |   |
|----------|---------|-------|-----|------|-------|--------|-----|---|
| Segment  | 1       | 2     | 3   | 4    | 5     | 6      | 7   | 8 |
| Stimulus | Which X | think | you | that | the Y | VERBed | has | ? |

- Each question was followed by two statements corresponding to a subject or an object reading from which participants had to choose.

## Example of materials

### Question (EmbAmb subject)

Welch-er Schriftsteller denkst du, dass die Verleger-in geschätzt hat?  
Which-NOM author think you that the.? publisher-FEM appreciated has?  
'Which author do you think respected the publisher?'

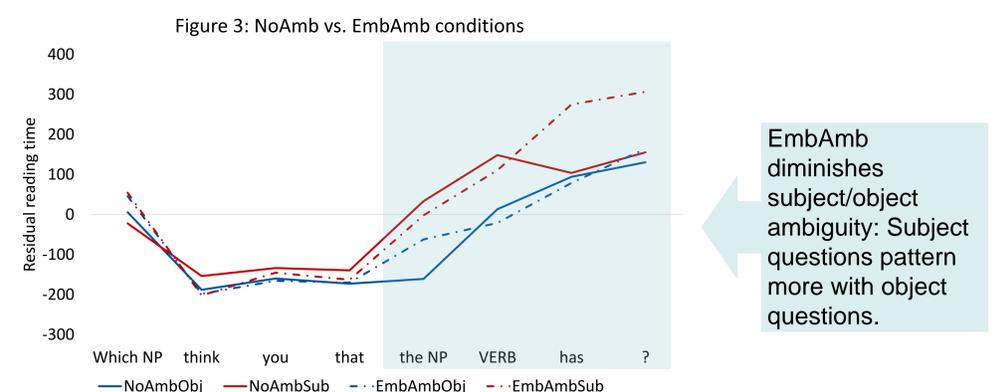
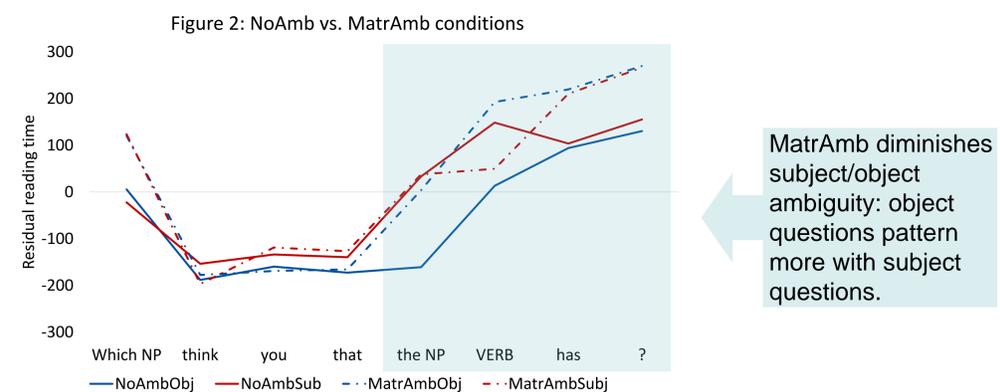
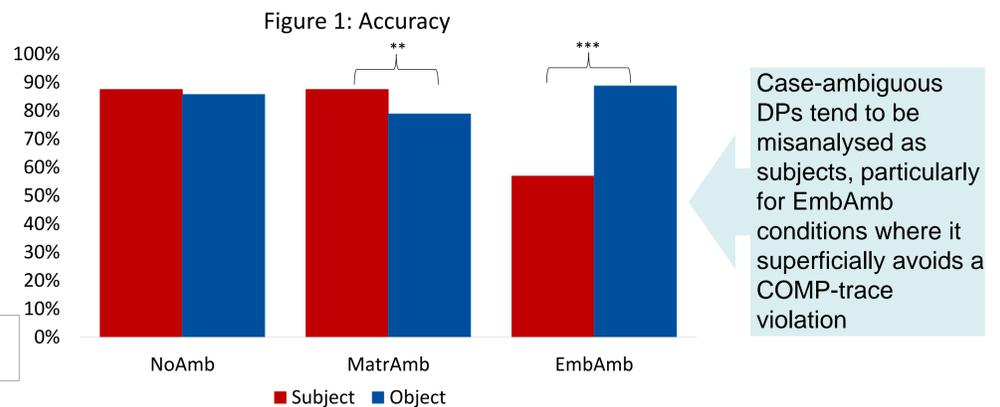
### Comprehension statement

- Ich denke, dass der britische Schriftsteller die Verlegerin geschätzt hat **Correct**  
'I think that the British author appreciated the publisher'
- Ich denke, dass die Verlegerin den britischen Schriftsteller geschätzt hat **Incorrect**  
'I think that the publisher appreciated the British author'

Table 1: Examples of conditions

| Condition       | Example  |
|-----------------|--|
| NoAmb Sub/Obj   | Welch-er/welch-en Schriftsteller denkst du, dass den/der Verleger geschätzt hat?<br>Which-NOM/wich-ACC author think you that the.ACC/the.NOM publisher appreciated has<br>'Which author do you think appreciated the publisher/the publisher appreciated?' |
| MatrAmb Sub/Obj | Welche Schriftsteller-in denkst du, dass den/der Verleger geschätzt hat?<br>Which.? author-FEM think you that the.ACC the.NOM publisher appreciated has<br>'Which author do you think appreciated the publisher/the publisher appreciated?'                |
| EmbAmb Sub/Obj  | Welch-er/welch-en Schriftsteller denkst du, dass die Verleger-in geschätzt hat?<br>Which-NOM/wich-ACC author think you that the.? Publisher-FEM appreciated has<br>'Which author do you think appreciated the publisher/the publisher appreciated?'        |

## Results



## Conclusions

- Parsing problems located in the embedded clause, not in the main clause: **contra Hypothesis A and in favor of Hypothesis B.**
- Case-ambiguous DPs are frequently interpreted as subjects, leading to global misinterpretations, effectively **diminishing** the subject/object asymmetry and thus the strength of **the COMP-trace effect.**
- Good enough processing can partly explain why COMP-trace violations are less severe in German.

