

Processing COMP-trace violations in German

Speech & Music Lab

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The facts

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

Welch-er Schriftsteller] denkst du, dass t_i den Verleger geschätzt hat? Which-NOM author think you that the.ACC publisher appreciated has 'Which author do you think (*that) respected the publisher?'

Schriftsteller], denkst du, dass der Verleger t_i geschätzt [Welch-en hat? think you that the.NOM publisher appreciated has Which-ACC author 'Which author do you think (that) the publisher respected?'

Difference in acceptability reduces when the wh-phrase or

Example of materials

Question (EmbAmb subject)

Schriftsteller denkstdu, dass die Welch-er 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 (A) Correct 'I think that the British author appreciated the publisher'
- Ich denke, dass die Verlegerin den britischen Schriftsteller geschätzt hat (B) Incorrect 'I think that the publisher appreciated the British author'

Table 1: Examples of conditions

Condition | Example

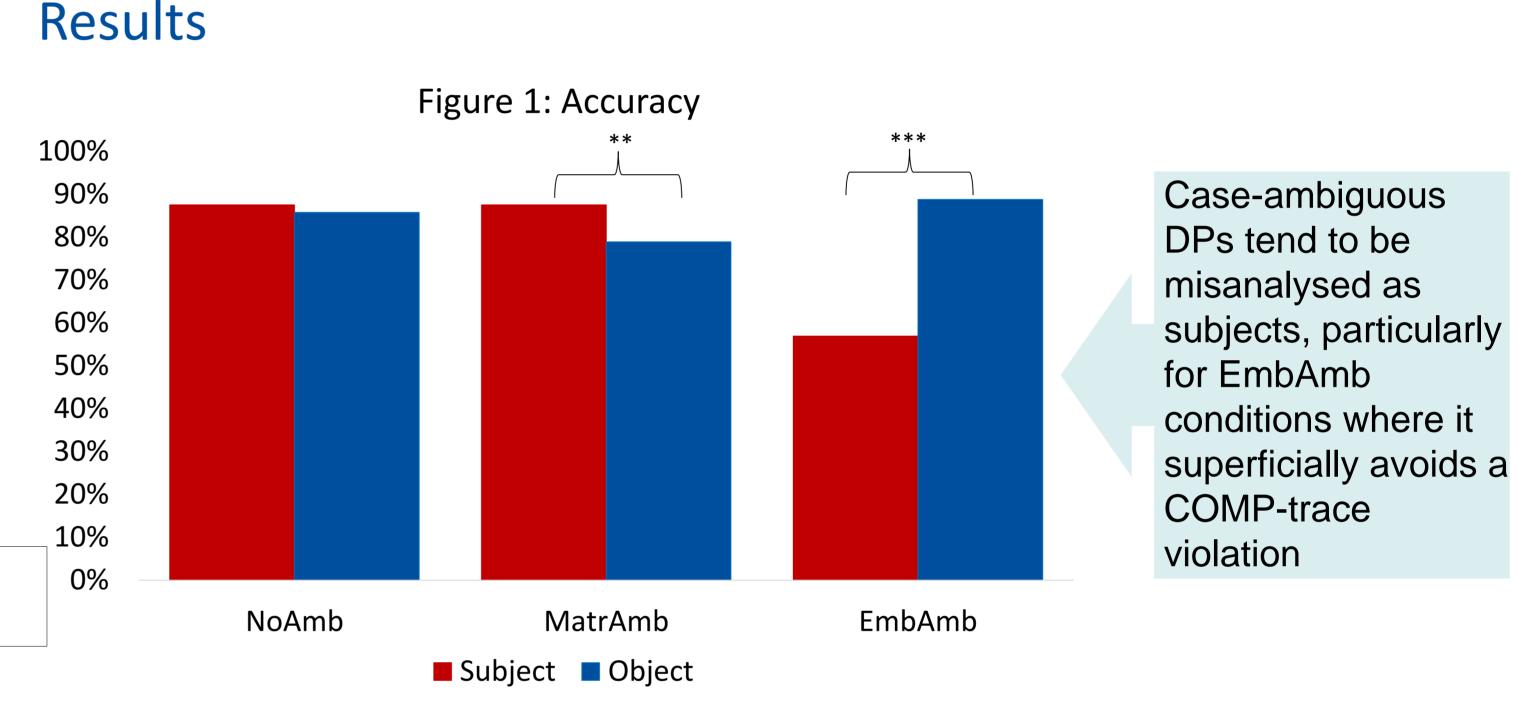
- embedded DP is case-ambiguous (Kiziak 2010).
- German differs from English, where COMP-trace violations are categorically rejected.
- What causes this difference between German and English? What role do local case-ambiguities play?

Hypotheses

- A. German doesn't have COMP-trace violations, subject/object asymmetry is purely parsing-related, due to a matrix clause agreement clash (Haider 2007).
- B. 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:

NoAmb Sub/Obj	Welch-er/welch-en Schriftsteller denkst du, dass den/der Verleger geschätzt hat? Which-NOM/wich-ACC author think you that the.ACC/the.NOM publisher appreciated has '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? Which.? author-FEM think you that the.ACC the.NOM publisher appreciated has '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? Which-NOM/wich-ACC author think you that the.? Publisher-FEM appreciated has 'Which author do you think appreciated the publisher/the publisher appreciated?'

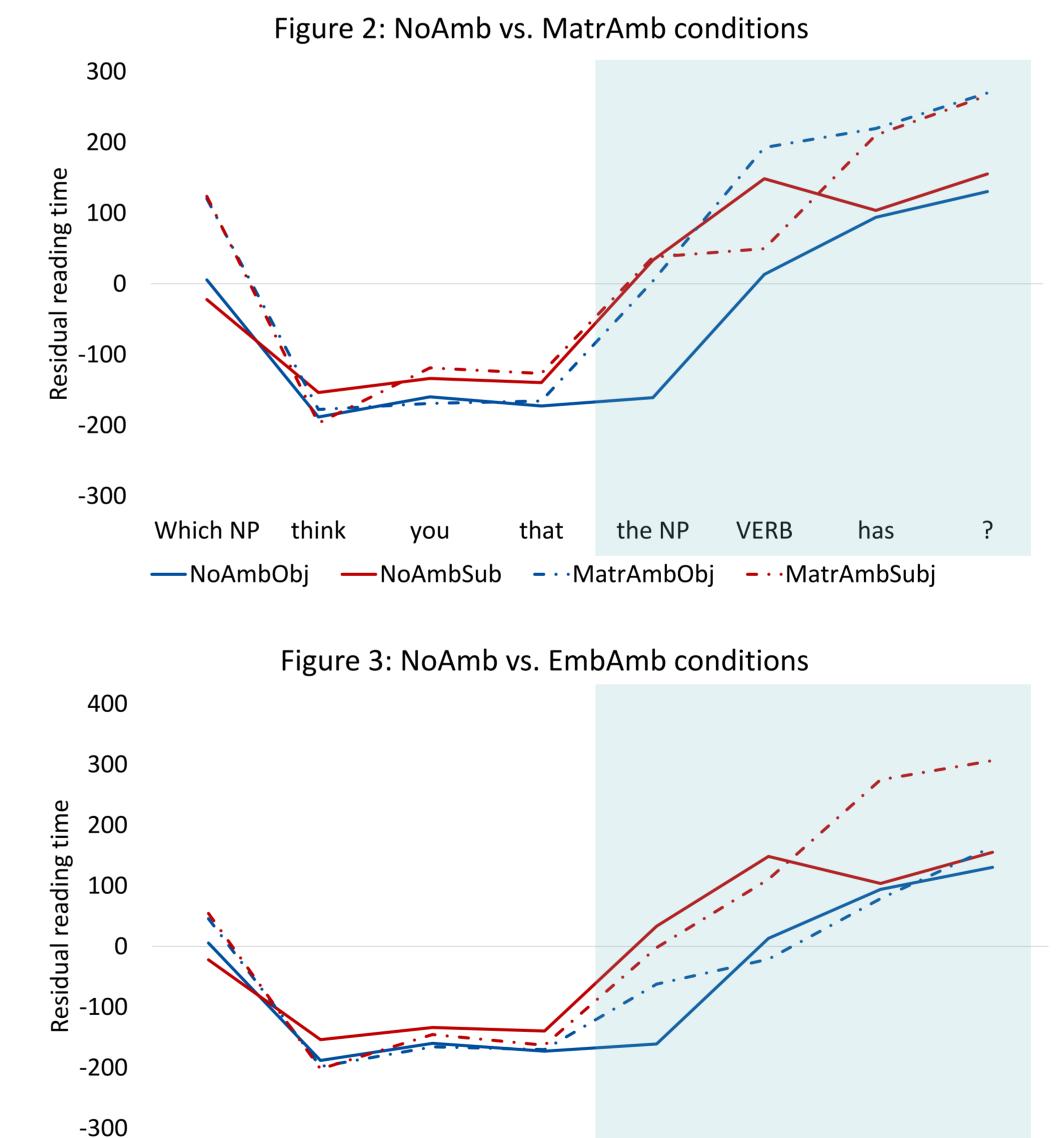


- Do parsing problems occur in the main clause (Hypothesis A) or in the embedded clause (Hypothesis B)?
- Do readers misinterpret LD subject as LD object questions and vice versa (Hypothesis B)?
- Do local case ambiguities cause misinterpretations (Hypothesis B)? 3.

Method

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





MatrAmb diminishes subject/object ambiguity: object questions pattern more with subject questions.

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EmbAmb diminishes subject/object ambiguity: Subject questions pattern more with object questions.

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 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.

Conclusions

— NoAmbObi

Parsing problems located in the embedded clause, not in the main clause: contra Hypothesis A and in favor of Hypothesis B.

the NP

- · · EmbAmbObj

that

-NoAmbSub

VERB

has

- · · EmbAmbSub

- 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.

References: ■ FEATHERSTON, S. (2005). *That*-trace in German. *Lingua*, 115, 1277-1302. ■ FERREIRA, F., & PATSON, N. (2007). The 'good enough' approach to language comprehension. Language and Linguistics Compass, 1, 71-83. Haider, H. (2007). As a matter of facts – comments on Featherston's sticks and carrots. Theoretical Linguistics, 33, 381–394. ■ Kiziak, T. (2010). Extraction Asymmetries: Experimental Evidence from German. Amsterdam & Philadelphia: John Benjamins.

