Understanding the underlying mechanisms of cross-linguistic influence: Evidence from priming German-Italian bilinguals



Ioli Baroncini 12.10.2023 HI H

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Understanding the underlying mechanisms of cross-linguistic influence



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Introduction



Bilingualism is the norm for more than half of the world's population [Grosjean, 2021].

- How two (or more) languages are represented in the bilingual's mind?
- How they interact with each other?
- How such interactions develop with age?



Cross-linguistic influence (CLI)



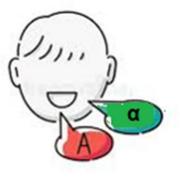
Linguistic properties of a bilingual's language (e.g., phonological and morpho-syntactic features) are used or accepted in the other language

[van Dijk et al. 2021 for a review]

Italian

Mangia un dolce (he) eats a sweet

Lui mangia un dolce



German

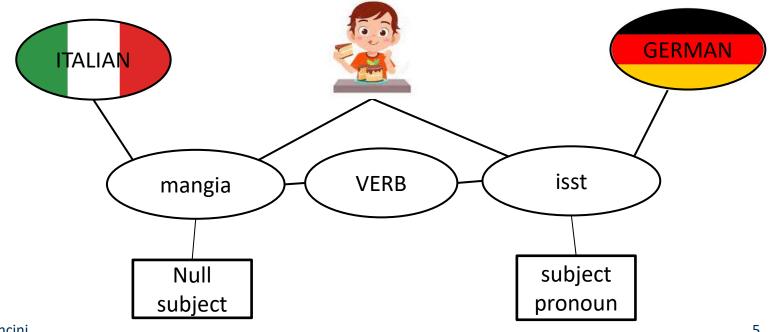
Er isst ein Bonbon He eats a sweet

CLI and "Activation"



CLI depends on the activation level of certain (lexical, phonological or morpho-syntactic) structures within a bilingual's processing system.

[Serratrice, 2016; 2022; Sharwood Smith and Truscott, 2014]



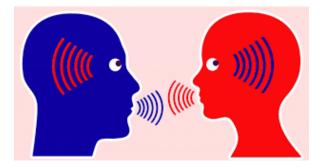
Ioli Baroncini

CLI, activation and structural priming



Structural priming refers to speakers' tendency to reuse a morphosyntactic structure that they have encountered previously. [e.g., Pickering & Branigan 1998, Branigan & Pickering, 2017]

→ This may hold also between two languages [Hartsuiker et al. 2004]



The study: Priming across languages

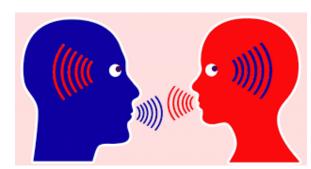
1. German-to-Italian

Does it lead to the over-production of subject pronouns in Italian?

2. Italian-to-German

 $\square \longrightarrow \square$

Does it lead to the production of a null subject in German?











The study: Priming across languages

Direction of the priming effect (CLI)
 Language A → Language B
 Language A ← Language B

2. Different levels of grammaticality:
 Dispreferred vs. ungrammatical 😒

Research questions



RQ1: Is it possible to prime null subjects and subject pronouns across languages?

RQ2: Are there any differences in the magnitude of priming between the two across-languages priming experiments?

-Does that reflect a difference between **dispreferred vs. ungrammatical structures**?

-And what can it tell us about the **direction of CLI**?

RQ3: Which **additional factors** (age, language dominance, cognitive flexibility) affect the occurrence and strength priming (CLI)?

RQ4: Is the priming effect **long-lasting**?

Procedure



Test German-Italian bilingual children (6-18 years old)

Session 1:

Pre-test (Italian) German-to-Italian priming Post-test (Italian)



Session 2: Pre-test (German) Italian-to-German priming Post-test (German)



+ Questionnaire (for the parents)
+ Proficiency test (Italian and German)
+ Cognitive task

Next steps:



- ✓ Materials for the study
- ✓ Approval from the Ethics Committee
- Pilot the study
- Pre-registration on OSF
- Upload all the materials (tasks, questionnaires) in OSF (reproducibility)
- Share raw data and the scripts for the statistical analyses (transparency)
- Registered report



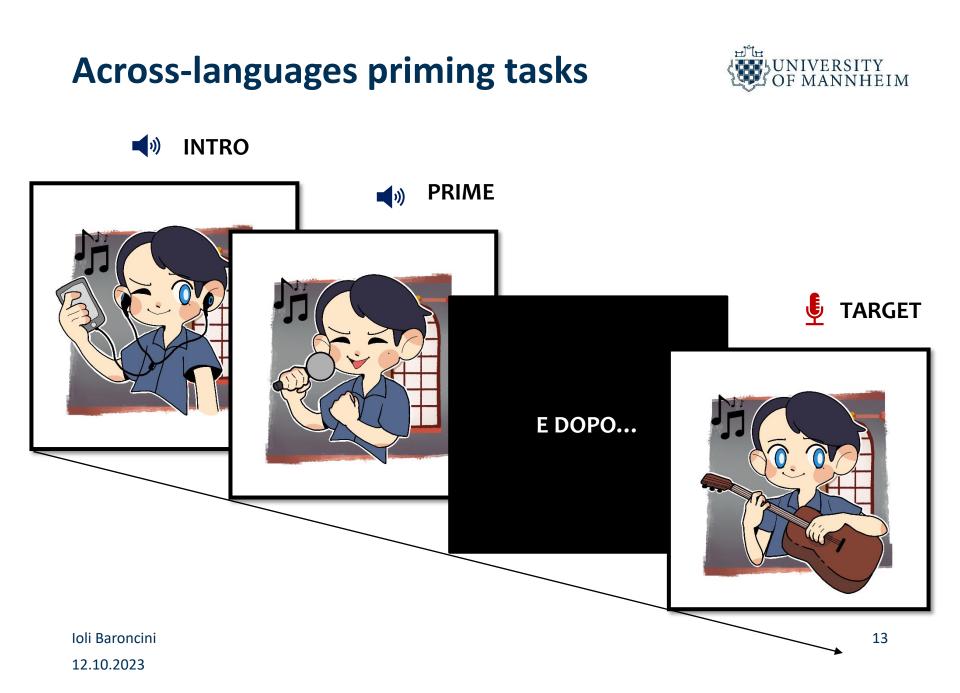


THANK YOU!

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Beispiel-Fußzeile

19.12.2017



Across-languages priming tasks

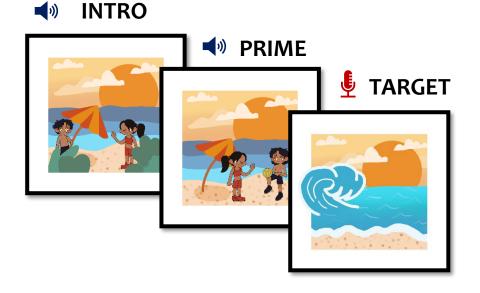


Experimental items: (two Lists)
 15 null subjects
 30 primes

¹⁵ overt pronouns

• 30 Fillers





Pre- and post-test



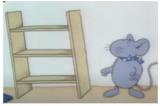
Short videos with no linguistic material

-Look at the video

-Retell the story by looking at the pictures either in Italian or in German















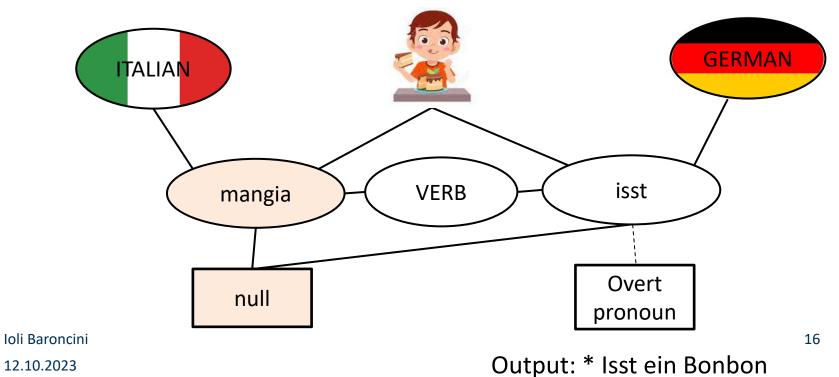


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