# Slovenian clitics attach by default to the right

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## Outline

- Introduction
- 2 Previous work
- 3 Experiment
- 4 Results
- Discussion

In Slovenian, "second-position" clitics generally appear after the first constituent (Golden and Milojević Sheppard, 2000; Franks and King, 2000):

- (1) a. Micka **mu je** včeraj podarila knjigo. Micka him.DAT AUX.3SG yesterday gave book 'Micka gave him a book yesterday.'
  - Včeraj mu je Micka podarila knjigo. yesterday him.dat aux.3sg Micka gave book 'Micka gave him a book yesterday.'
  - c. Knjigo mu je včeraj podarila Micka. book him.dat aux.3sg yesterday gave Micka 'Micka gave him a book yesterday.'
  - d. Podarila **mu je** včeraj Micka knjigo. gave him.dat aux.3sG yesterday gave Micka 'Micka gave him a book yesterday.'

Slovenian "second-position" clitics must prosodically attach to a host, which they can find in either direction when forced to by a pause or large prosodic boundary:

- (2) a. Prešeren, || največji slovenski pesnik, || **se**= **je**=
  Prešeren greatest Slovenian poet REFL.ACC AUX.3SG
  rodil v Vrbi.
  born in Vrba
  'Prešeren, the greatest Slovenian poet, was born in Vrba.'
  - b. Videl = sem = ga, || ko je skočil. saw AUX.1SG him.ACC when AUX.3SG jumped 'I saw him jump.'

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**Note:** BCMS clitics can *only* attach leftward (see e.g. Browne, 1974, 1975; Radanović-Kocić, 1988; Schütze, 1994; Franks and King, 2000; Bošković, 2001), SO the BCMS equivalents of (2-a) are \*.

We present a novel *perception experiment* testing whether Slovenian speakers attach clitics to the left or right in prosodically neutral environments like (1):

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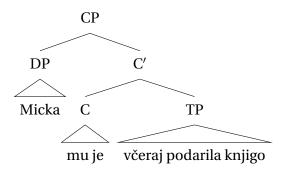
**Results:** When both options are available, Slovenian clitics are perceived as attaching *rightward* (procliticizing).

## Outline

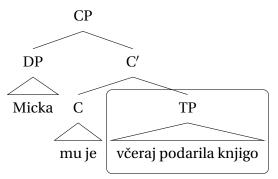
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- This falls out naturally given phase theory (Chomsky, 2001) if clitics are in C (Golden and Milojević Sheppard, 2000) or some lower phase head (Marušič, 2008)

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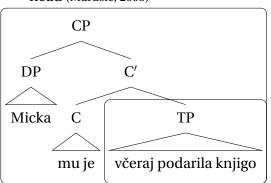


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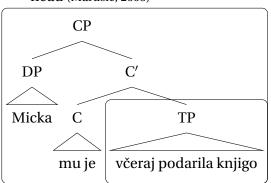
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- Penultimate phase Everything below C sent to spell-out
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   C (clitics) sent to
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   → natural unit with
   preceding material

# Argument for rightward attachment

Orešnik (1984): in clitic-only sequences (responses to polar questions), the rightmost clitic is stressed

- (3) A: **Si**= **ga**= **je**= pogledala? REFL.DAT him.ACC AUX.3SG watched 'Did she watch it?'
  - B: **Si**= **ga**= **jé**.

    REFL.DAT him.ACC AUX.3SG

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    'She did.'
  - In (3), the sentence needs *some* stress
  - Better to stress the last and attach the other two rightward to it
  - At best, this shows a default preference for rightward attachment *when syntax is not a factor* (which it almost always is)

#### Theoretical stakes

Clash between *syntactic* and *phonological* predictions

If Orešnik (1984) is correct that Slovenian clitics usually attach rightward (procliticize), either:

- The syntactic analysis is wrong
- A mismatch between syntax and prosody (likely triggered by phonological preference for rightward attachment)

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# Research question

#### Target environment:

(4) Bankir **mi bo** hišo zastavil za kredit. banker.Nom me.dat FUT.3sG house.acc mortgage for loan 'The banker will mortgage my house for a loan.'

#### Unambiguous cases:

- (5) Kolo, || ki sem ga kupil včeraj, || **so= mi=** danes ukradli. bike.acc which pst.isg it.acc bought yesterday pst.3pl me.dat today stole 'The bike I bought yesterday was stolen today.'
- (6) Dijak =**mi** =**bo**, || ko se bo začel pouk, || napisal tri pupil.nom me.dat fut.3sg when refl.acc fut.3sg begin class write three listke.

  notes.acc

'When the class starts, the pupil will write me three notes.'

## What is the prosodic attachment of the clitics in sentences like (4)?

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If Slovenian speakers attach clitics **rightward**, (4) should pattern experimentally with **(5)**.

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If Slovenian speakers attach clitics **leftward**, (4) should pattern experimentally with **(6)**.

### Prosodic boundaries

- If clitics attach to the right, there should be a *prosodic word* boundary between clitics and preceding material.
- How to detect perceived prosodic boundaries? Previous studies look for higher-level boundaries (e.g. Gussenhoven and Rietveld, 1992; Cambier-Langeveld et al., 1997; Krivokapić, 2007; Krivokapić and Byrd, 2012; Simon and Christodoulides, 2016) or differences in meaning (e.g. Scott, 1982; Gollrad, 2013; Petrone et al., 2017)

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- Novel task: Insert beeps into recorded sentences and ask speakers where they perceived them
- Hypothesis: Perception of beeps should "snap to" prosodic boundaries, with greater attraction effects for larger boundaries

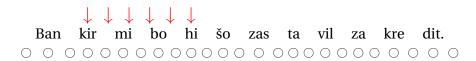
Speakers hear a sentence with a beep and are asked to identify the location of the beep.

(4) Bankir **mi bo** hišo zastavil za kredit. banker.NOM me.DAT FUT.3SG house.ACC mortgage for loan 'The banker will mortgage my house for a loan.'

Ban kir mi bo hi šo zas ta vil za kre dit.

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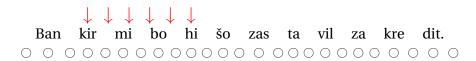
(4) Bankir **mi bo** hišo zastavil za kredit. banker.NOM me.DAT FUT.3SG house.ACC mortgage for loan 'The banker will mortgage my house for a loan.'



Six target beep locations, evenly spaced between the middle of the syllables before and after the clitics.

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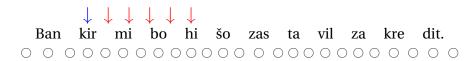


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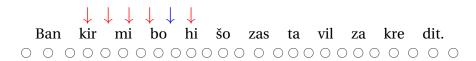


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30 sentences divided into 5 conditions, with expected prosodic boundaries:

Condition	n	Sentence		
I	noun	? clitics ?	noun	rest
2	modifier   noun	? clitics ?	noun	rest
3	noun	? clitics? m	odifier   noun	rest
4	noun    relative claus	se    clitics (m	odifier ) nour	ı   rest
5	(modifier  ) noun	clitics    a	djunct clause	rest

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(7) Nov stol **so mu** fantje podarili šele včeraj. new chair.ACC AUX.3PL him.DAT boys.NOM gave just yesterday The boys gave him a new chair just yesterday.'

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Condition	1	Sentence	)		
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5	(modifier  ) noun	clitics	adjunct c	lause	rest

(8) Lingvist **nam je** dva dni govoril le o členkih. linguist.Nom us.dat aux.3sg two days talked only about particles 'For two days, the linguist talked to us only about particles.'

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Conditio	n	Sentence		
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Kolo. ki kupil včeraj, (5)sem ga mi SO bike.ACC which PST.ISG it.ACC bought yesterday PST.3PL me.DAT danes ukradli.

today stole

'The bike I bought yesterday was stolen today.'

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#### **Predictions:**

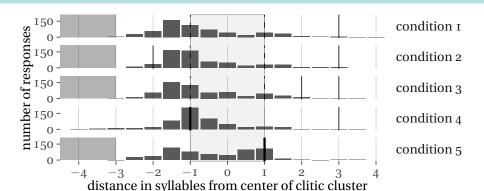
- 1–3 vs. 4/5: ? patterns like || (but weaker) on one side and no boundary on the other
- 1 vs. 2/3: | should have more beeps

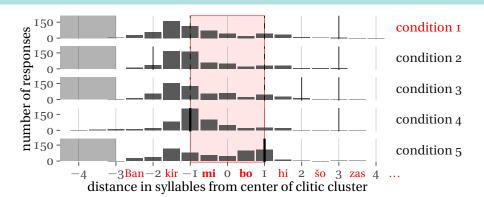
### **Details**

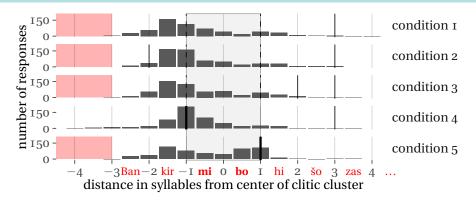
- 49 participants (recruited through Prolific)
- 90 trials each (60 target, 30 filler)
- Sentences read by one female speaker with professional experience, as neutrally as possible
- Sentences and beep locations per condition evenly distributed for each participant
- Mixed linear models predicting distance of perceived beep from target location (e.g. left/right edge of clitic cluster)

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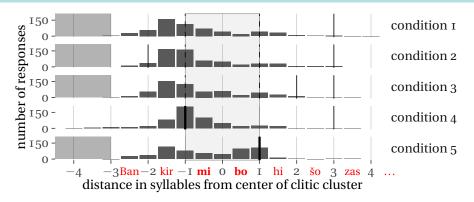
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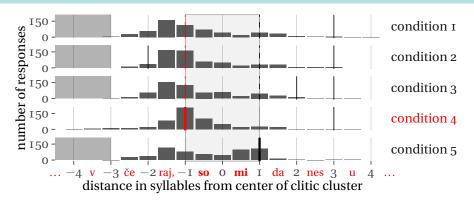




Most conditions only have two syllables before the cluster

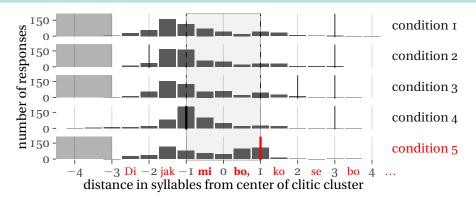


Neutral sentences (1–3) pattern as having boundary *before* the cluster



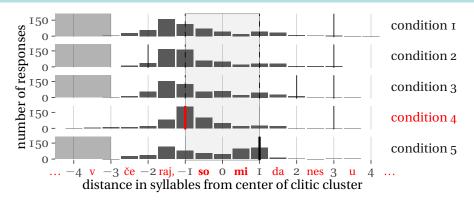
Neutral sentences (1–3) pattern as having boundary *before* the cluster

• left edge of cluster: 1, 2, 3, 4 > 5



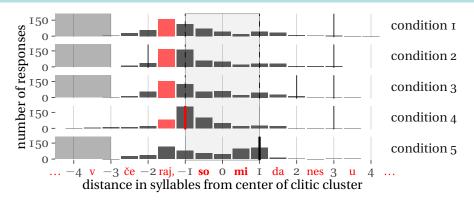
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- left edge of cluster: 1, 2, 3, 4 > 5
- right edge of cluster: 5 > 1, 2, 3, 4



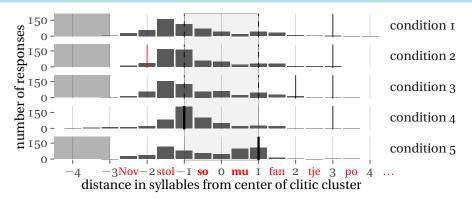
The clause boundary attracts *more* beeps than the prosodic word boundary

• left edge of cluster: 4 > 1, 3 4 vs. 2 not significant



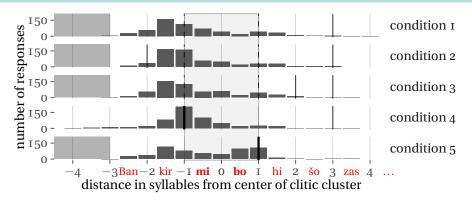
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- left edge of cluster: 4 > 1, 3 = 4 vs. 2 not significant
- others more concentrated on last syllable before clitics



The low-level prosodic boundary between modifier and noun should get slightly *more* beeps, but we see no such effect

• between first two syllables: 2 vs. 1, 3 not significant



In general: participants perceived beeps as occurring earlier than they did (by  $\sim\!\! 1$  syllable)

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- Participants perceived Slovenian clitics as leaning rightward (procliticizing), as argued by Orešnik (1984)
- Prosodic hierarchy as predicted by e.g. Match Theory (Selkirk, 2011)
  - [ relative clause ] [ clitics ... = CP edge = intonational phrase boundary >
  - [ nominal ] [ clitics ... = XP edge = phonological phrase boundary >
  - [adjective] [noun] = X edge = phonological word boundary

Clitics in C (Golden and Milojević Sheppard, 2000) + phase theory (Chomsky, 2001) ⇒ clitics should lean leftward − not what we see!

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- Syntax-prosody matching is calculated globally rather than cyclically (Selkirk, 2011; Weber, 2021)
- The default preference for right-leaning clitics (Orešnik, 1984) is strong enough to force readjustment of the prosodic grouping provided by phasal spell-out

### **Future directions**

- Do we have a syntax-prosody mismatch, or is our syntactic analysis wrong?
- Further study of the nature of the beep test
- Beep test for clitics in other Slavic languages
  - BCMS has mandatory leftward attachment (see e.g. Browne, 1974, 1975; Radanović-Kocić, 1988; Schütze, 1994; Franks and King, 2000; Bošković, 2001) → strong prediction
  - Czech clitics similar to Slovenian, but with some evidence for leftward default attachment → testable prediction

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