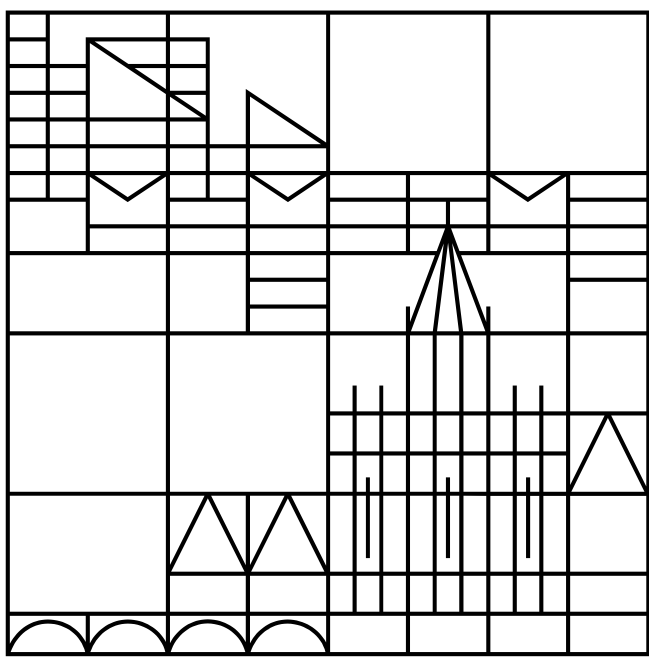


On word order variation and information structure in Spanish and Italian ‘why’-interrogatives

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Background

Word order variation in Italian and Spanish ‘why’-interrogatives

- Word order in Italian and Spanish wh-interrogatives: whVS → obligatory subject-verb inversion (Rizzi 2001, Suñer 1994, Torrego 1984).
- (1) Che (*Luca) ha comprato (Luca)? (Italian) (2) ¿Qué (*Juan) compró (Juan)? (Spanish)
- what Luca has bought Luca what Juan bought Juan
- ‘What did Juan buy?’ ‘What did Juan buy?’
- ‘Why’ (Sp. por qué and It. perché) allows preverbal and postverbal subjects (e.g., Rizzi 2001, Torrego 1984)
- (3) Perché (Maria) balla (Maria)? (Italian) (4) ¿Por qué (María) baila (María)? (Spanish)
- why Mary dances Mary why Mary dances Mary
- ‘Why does Mary dance?’ ‘Why does Mary dance?’
- Bianchi, Bocci & Cruschina (2017) and Leonetti (2018) show that information structure affects word order in Italian ‘why’-interrogatives
- Italian: postverbal subjects are interpreted as focal ([+Foc]), preverbal subjects are [-Foc]
- Spanish: no research on this topic, but crucial difference to Italian concerning the frequency of word order patterns (see Table 1)

RQ 1: Does information structure affect word order in Italian and Spanish ‘why’-interrogatives?
RQ 2: Do Spanish and Italian ‘why’-interrogatives differ from each other and if yes, why?

Table with 3 columns: Language, SV, VS. Data for IT and SP.

Table 1: Word order in ‘why’-interrogatives (Parallel Text Corpus)

Empirical studies

Parallel Text Corpus: Method & Results

- 200 matrix ‘why’-interrogatives with an overt subject (from detective novels and stories published in ‘The Complete Sherlock Holmes’ and the Bible (Old Testament: Gen.-2 Kings, New Testament: Matt.-Acts))
- Manual annotation of
 - Syntactic features: word order (whSV vs. whVS), clause type (matrix vs. embedded), subject (null vs. overt)
 - Discourse categories of the subject: (Heidinger 2018:46) Focus: set of relevant alternatives ([+Foc] vs. [-Foc]), IRA: 97.3%, Cohen’s κ = 0.73 (substantial) Givenness: new vs. given information ([+Given] vs. [-Given]), IRA: 100%, Cohen’s κ = 1.0 (perfect)
- Statistical analysis with mixed-effects regression model in R:
 - Significant effect of language (β = 5.48, SE = 0.81, z = 6.74, p < .001)
 - Significant effect of ‘markedness’ in Italian (β = 3.54, SE = 0.84, z = 4.22, p < .001) and Spanish (β = -2.10, SE = 0.50, z = -4.19, p < .001)
 - No effect of text (β = -0.42, SE = 0.40, z = -1.05, p > .05)

Table with 6 columns: Language, Word order, unmarked, marked. Data for Italian and Spanish.

Table 2: Word order in ‘why’-interrogatives across information structure conditions (absolute numbers)

- Word order has an interpretative effect in both languages
- Position of unmarked subjects: Italian: ‘why’SV, Spanish: ‘why’VS

Forced-choice experiment: Method & Results

- Experimental design:
 - Web-based questionnaire in a Latin square design
 - Three independent variables with two levels each:
 - Language: Italian vs. Spanish
 - Concerning the subject:
 - Focus: [+Foc] vs. [-Foc]
 - Status of information: [-Given] vs. [+Given]
 - 24 items, resulting in 96 experimental stimuli
 - 4 lists, every participant receives 24 experimental stimuli and 24 fillers in a pseudo-randomized order

- Participants:
 - 372 participants (recruited via Facebook)
 - 157 Italian monolinguals (mean age = 32.3, range = 20-63, 111 female, 46 male)
 - 215 speakers of Spanish from Spain (mean age = 34.3, range = 20-78, 169 female, 45 male, 1 other)
 - 3 Italian and 3 Spanish participants were excluded

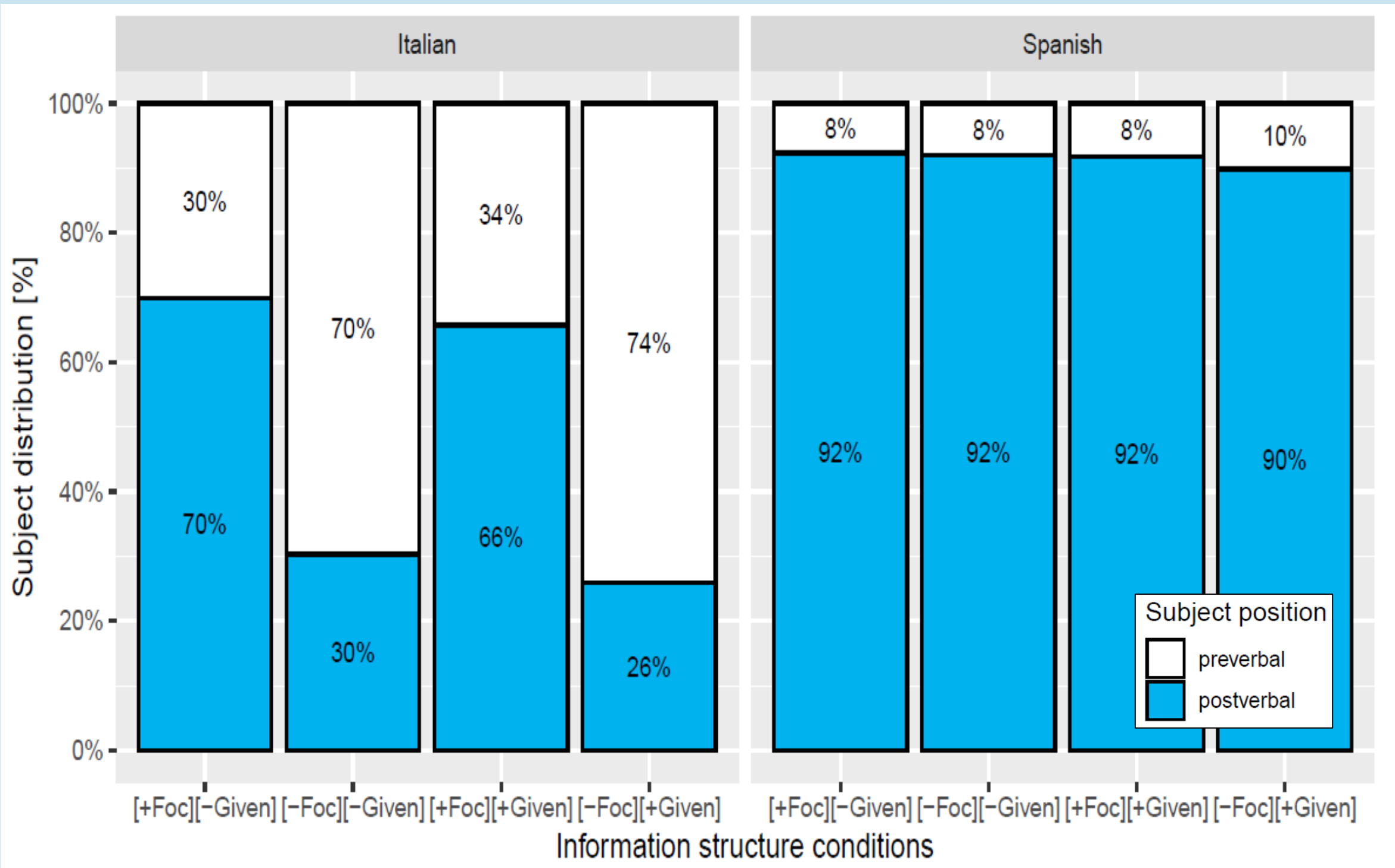


Figure 1: Distribution of pre- and postverbal subjects in Italian and Spanish across information structure conditions.

Example of annotations



Example of an item

- Statistical analysis with mixed-effects regression model in R:
 - Significant effect of language (β = -2.8, SE = 0.07, z = -39.05, p < .001)
 - Significant effect of focus in Italian (β = -2.1, SE = 0.12, z = -17.51, p < .001)
 - no effect of focus in Spanish (β = -0.06, SE = 0.16, z = -0.35, p = .72)

Discussion

RQ 1: Does information structure affect word order in ‘why’-interrogatives?

Italian: YES
Especially focus has important impact on word order in ‘why’-interrogatives

- Spanish:
 - Intransitive verbs: NO
 - general preference for postverbal subjects regardless of the information structure
 - Transitive verbs: more research needed

RQ 2: Do Spanish and Italian ‘why’-interrogatives differ from each other and if yes, why?

- YES → differences with respect to the frequency of word order patterns:
 - Italian: subject position is triggered by information structure (preverbal = [-Foc], postverbal = [+Foc])
 - Spanish: subject position only marginally affected by information structure

A first syntactic account for ‘why’-interrogatives within the cartographic framework:

- wh-word: ‘why’ is directly merged in IntP (Rizzi 2001, Shlonsky 2011, Stepanov & Tsai 2008)
 - Verb: the verb does not move to C in neither of the languages (Goodall 1993, Suñer 1994, Rizzi 2001)
 - Subject: difference in subject position is due to different properties regarding information structure.
- Fine structure of the split-IP (as in Belletti 2004, Cardinaletti 2004)
- Italian: [CP [SubjP subject[-Foc] [TP . . . [TopP [FocP subject[+Foc] [TopP [VP]]]]]]
 - Spanish: [CP [TP subject [T . . . [TopP [FocP subject[+Foc] [TopP [VP subject[-Foc] [VP]]]]]]