

# The syntax and information structure interface: VS order in Catalan *vs* Spanish

Núria Barrios-Jurado

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# Outline

- The Phenomenon
- Theoretical Background
- Research Questions
- Corpus data
- Experimental data
- Concluding Remarks



## **Focus Structure**

Predicate-focus:

What happened to your car? My car [BROKE DOWN].

Argument-focus:

I heard your motorcycle broke down? [My CAR] broke down.

Sentence-focus:

What happened? [My CAR broke down].

(Lambrecht 1994:223)



# **Focus Structure**

Sentence-focus: (adapted from Lambrecht 1994:223)

#### What happened?

English: [*My CAR broke down*].

Spanish: [Se me ha roto el COCHE].

Catalan: [Se m'ha espatllat el COTXE].

- In English, focus is usually marked by means of prosodic stress. In the Romance languages (which are SVO) word-order is a more common mechanism.
- In Spanish and Catalan, final constituents are assigned prosodic stress. It is believed informational focus aligns with sentential stress.



# Topic

- Topic is understood as "what the sentence is **about**".
- All sentences need a topic, even sentence-focus structures.
- Topic = Subject of Predication (SoP)
- Erteschik-Shir's (1997) stage topic: the spatio-temporal parameters of the sentence.
- Topic needs to be *given* information, not *old*.



 Some Romance languages are more restrictive than others when it comes to the mapping of IS onto syntax. (Leonetti 2017)

#### What happened?

#### Spanish:

- Ha llegado María.
  has arrived Mary
  'Mary has arrived.'
- 2. Se ha ido María. <sub>RFL</sub> has left Mary 'Mary has left.'

#### Catalan:

- 1. Ha arribatIaMaria.has arrivedtheMary'Mary has arrived.'
- 2. #Se n'ha anat la Maria. RFL CL=has left the Mary 'It is Mary who left.'



## **Theoretical background**

- VS is the canonical word-order for unaccusatives in the Romance languages.
  - => VS order should be felicitous in sentence-focus structures.
- There's a difference in interpretation between SV/VS order:

Italian (from Pinto 1997)

- Dante e entrato.
  Dante is entered
  'Dante has entered (into some place).'
- 2. E entrato Dante.
  - is entered Dante

'Dante has entered (here/into this place).'



## **Theoretical background**

- In absence of an overt locative or temporal phrase, the Romance languages require a (somewhat deictic) null locative in subject position to licence sentence-focus in VS. (Fernández-Soriano 1999, Corr 2016, a.o.)
- Bentley & Cruschina's (2018) BFSI proposal for Italian:

covert preverbal Subject of Predication (SoP) which can be

- Thematic SoP: a goal argument is available in the thematic grid of the verb (e.g. arrive).

Sono arrivati i ragazzi Are arrived the kids 'The kids have arrived' [subj (∃loc)][pred sono arrivati i ragazzi]

- Situational SoP: a non-thematic goal argument inferred from the situation or context (e.g.

change-of-state verbs such as die).

Sono morti i soldati. are died the soldiers 'The soldiers have died.' [<sub>subj</sub> (∃e)(past(e))][<sub>pred</sub> sono morti i soldati]



### **Theoretical background:** Bentley & Cruschina (2018)

Change-of-state predicates are divided into:

- Definite change (which specify an endpoint)
- Indefinite change (which encode the attainment of a degree with respect to a given property and only imply the existence of a final state)

Predicate type	SoP type	Example
Quantized change – speaker oriented verbs of inherently directed motion	Thematic	<i>Sono entrati I clienti.</i> 'The clients have come in (here)'
Activities with goal argument	Thematic	<i>Hanno telefonato I ragazzi.</i> 'The kids have phoned (here/us)'
Quantized change – telic verb with a state-goal	Situational	<i>Sono morti i soldati.</i> 'The soldiers have died'
Non-quantized change – atelic verbs with goal inferred from adjectival base	Situational	<i>Si è svuotato il serbatoio.</i> 'The tank has become empty.'
Non-quantized change – atelic verbs with goal inferred from contextual clues	Situational	<i>Si è accorciata la gonna.</i> 'The skirt has become short.'



## **Research Questions:**

- What verbs can appear in a sentence-focus VS construction in Spanish and Catalan? Are Spanish and Catalan different?
- Are the BFSI licensing arguments in Bentley & Cruschina (2018) able to account for the Catalan and Spanish evidence?
  - Data triangulation: corpus study, Production task, and Acceptability Judgement Task



## **Corpus Study**

- Corpora:
  - Spanish: CORPES
  - Catalan: CTILC
- Written data from 21<sup>st</sup> century
- Diatopic varieties:
  - Spanish: Peninsular Spanish
  - Catalan: Central Catalan



## **Corpus study**

#### Aim for 400 hits/verb:

English	Spanish	Catalan	
Arrive	Llegar	Arribar	
Die	Morir	Morir	Definite result state
Appear	Aparecer	Aparèixer	J
Grow	Crecer	Créixer	
Increase	Aumentar	Augmentar	https://www.indefinite result state
Improve	Mejorar	Millorar	J
Belong	Pertenecer	Pertànyer	
Sleep	Dormir	Dormir	Other

Total hits: 5,627 (Spanish: 3,200; Catalan: 2,427)



#### Manual correction of hits

- Overt subject
- Declarative sentences
- Indicative mood
- Root clause

#### **Disregarded:**

- Causative alternation
- Hits with negation
- Root clause preceded by subordinate clause



## **Corpus study**

Each corpus hit was coded for the following categorical binary variables:

- Word order [SV/VS]
- Presence of a sentence-initial temporal or locative adverbial [bare/loctemp]
- Definiteness of the subject [def/indef]
- Verb class [def result, indef result, other]

Catalan examples from CTILC:

#### 1. [VS, loctemp, def, def result]

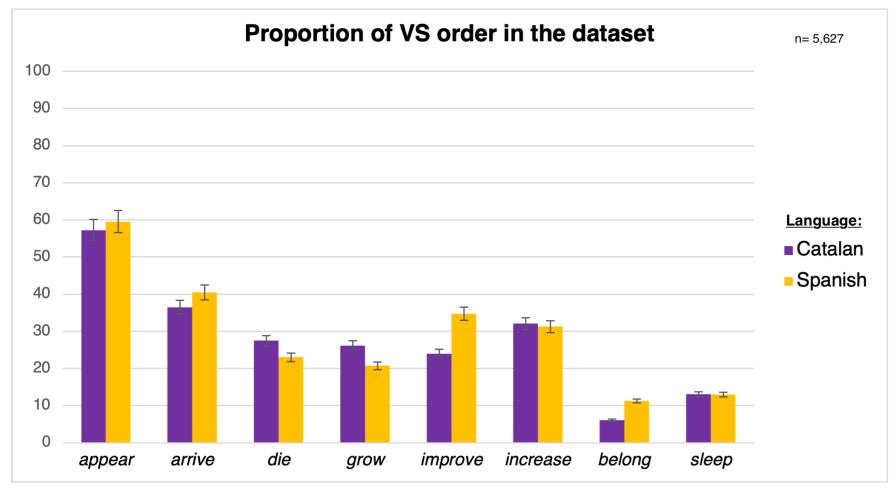
*El dia 10 va morir Arturo Nogueira.* The day 10 AUX.PST die Arturo Nogueira. 'Arturo Nogueira died on the 10<sup>th</sup>.'

#### 2. [SV, bare, indef, def result]

Molts vegetals morien. Many vegetals die.<sub>IMPF</sub> 'Many vegetables died.'

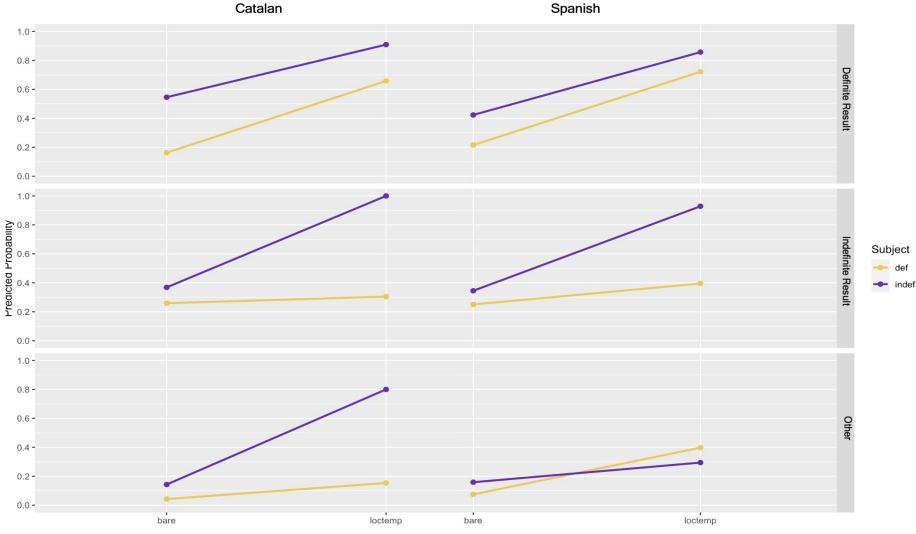


## **Corpus study: Results**





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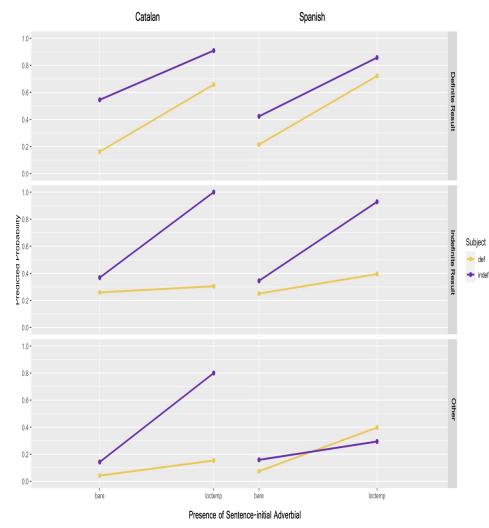


Presence of Sentence-initial Adverbial

#### word order ~ verb class \* subject \* initial adverbial



#### **Corpus study: Results**



- Results from fixed-effects
   regression model show
   independent variables are
   statistically significant (*p-value* <
   0.05).</li>
- Catalan and Spanish do not show significant differences.
  - Presence of adverbial and indefinite subjects favour VS order.
  - There are some similarities between 'indefinite result' verbs and 'other'.



#### Fieldwork data: AJT / Production Task

- 80 native speakers: 40 Central Catalan; 40 Peninsular Spanish
- Software: Psychopy
- 1:1 filler ratio (transitive verbs in narrow/contrastive focus)
- 12 verbs (x3 verb classes) x word order (SV/VS) x definite subject (def/indef)

English	Spanish	Catalan	
Arrive	Llegar	Arribar	
Die	Morir	Morir	Definite result
Appear	Aparecer	Aparèixer	
Leave	Irse	Anar-se	J
Grow	Crecer	Créixer	
Increase	Aumentar	Augmentar	Indefinite result
Improve	Mejorar	Millorar	
Change	Cambiar	Canviar	J
Sneeze	Estornudar	Esternudar	L L
Walk	Andar	Caminar	
Sing	Cantar	Cantar	Unergative
Talk	Hablar	Parlar	J



## Fieldwork data: AJT / Production Task

Participants presented with a context ended in *"What happened?*" (written + audio)

- AJT:
  - 2 sentences appear in SV and VS order.
  - Participant listens to them and ranks them from 1 to 5.

<u>Spanish:</u> El rey ha muerto. /Ha muerto el rey. <u>English:</u> The king has died.

#### Production Task:

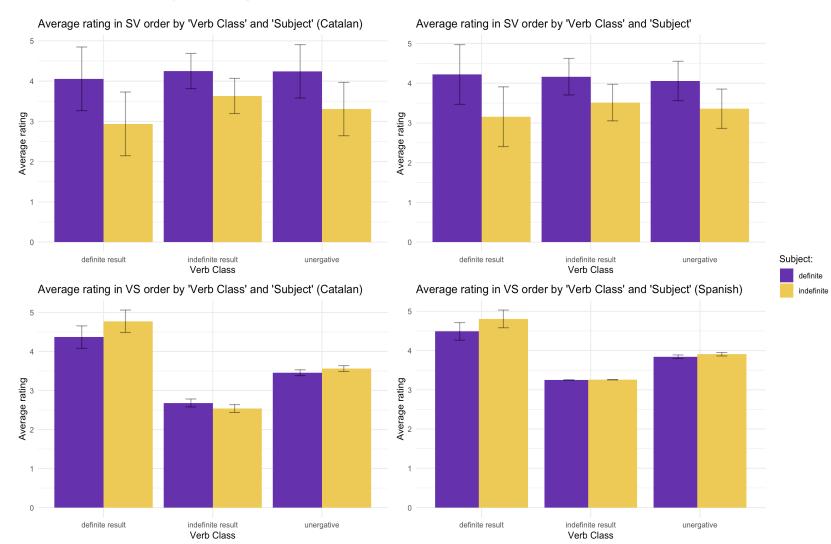
- 1 infinitive appears on screen.
- Participant produces a sentence using the verb in answer to 'what happened?'.

Spanish:LLEGARTarget sentence: Han llegado dos famosos.English:ARRIVETarget sentence: Two famous people have arrived.

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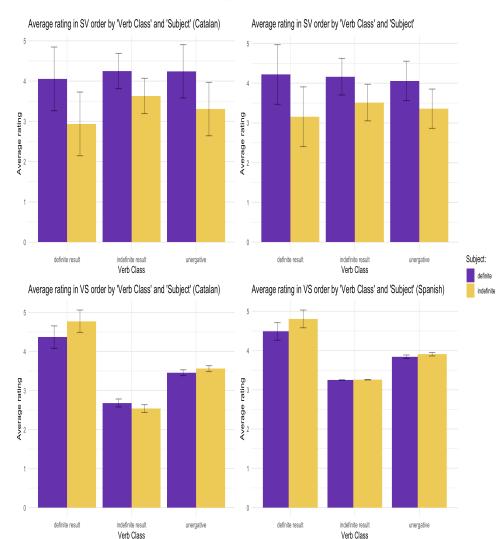


#### **Acceptability Judgement Task**





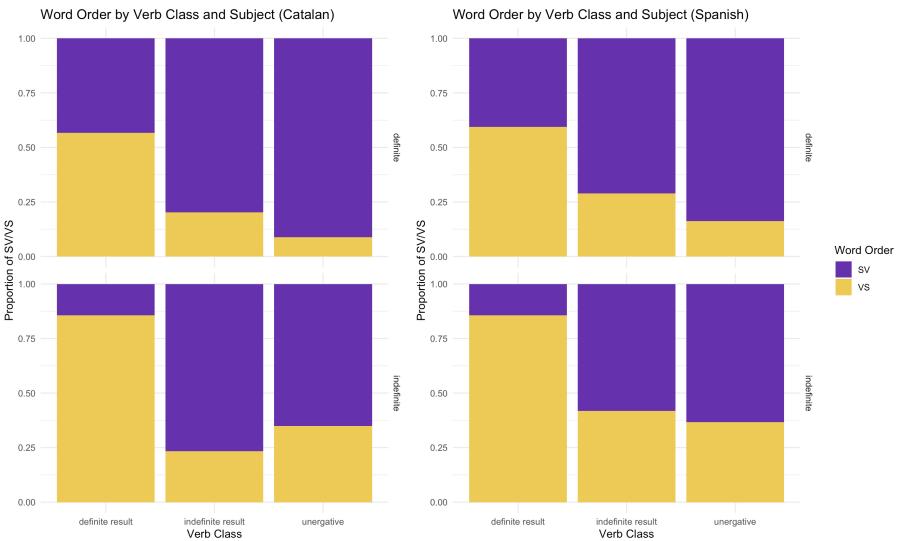
#### **Acceptability Judgement Task**



- Catalan and Spanish show no significant differences.
- No significant differences between verb class in SV order.
- Definite subjects are preferred in SV order.
- Some differences between verb class in VS order. Indefinite result and unergatives seem to be more similar than definite and indefinite result.
- Slight preference for indefinite subjects in VS order definite result verbs.

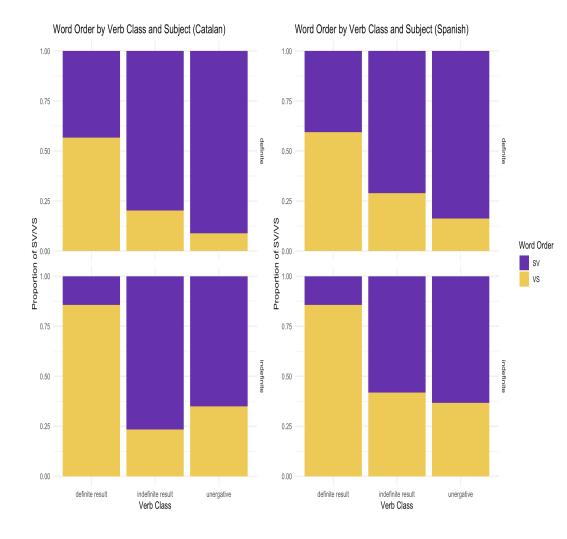


#### **Production Task**





Production Task



- Catalan and Spanish show no significant differences.
- VS is more frequent with definite result verbs, especially with indefinite subjects.
- Some differences between verb class. Indefinite result and unergatives seem to be more similar than definite and indefinite result.



## **Concluding remarks**

- The data seems to indicate there is no significant differences between Catalan and Spanish.
- Bentley & Cruschina's (2018) theoretical proposal seems to be on the right track with regards to *verb class* being crucial in the licensing of BFSI.
   However, at least for Catalan and Spanish, only verbs with a definite goal might license it.
- Quantitative analysis of fieldwork data will help determine if the predictors are statistically significant (as the plots seem to suggest).



## **Concluding remarks – Further research**

- Qualitative analysis may shed some light onto microvariation between languages.
- Need to explore the differences between categorical and thetic interpretations.

English: The king has died. Spanish: El rey ha muerto. SV = categorical? Ha muerto el rey. VS = thetic?

 Need to explore exhaustive reading in VS order in Catalan vs Spanish:

> Catalan: *Ha marxat la Maria*. (Mary left and nobody else did) Spanish: Se ha ido Maria. (Mary left and maybe somebody else did too)



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Corpora:

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