Acquiring (illocutionary) complementisers:

Preliminary insights from Catalan and Spanish, and beyond

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The development of complementisers

Initial observations

- Acquisition of complementisers and subordination typically taken to be a crosslinguistically relatively late phenomenon in child language (e.g., Armon-Lotem, 2005; Clahsen and Penke, 1992).
- Earliest forms include so-called preconjunctionals. The emergence of subordinators, such as Catalan and Spanish que, is a later development.
 - Often accounted for via 'bottom-up' approaches to syntactic development, whereby the CP is acquired last (Radford, 1988: Rizzi, 1994: Friedmann et al., 2021; Diercks et al., 2023).

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 - Often accounted for via 'bottom-up' approaches to syntactic development, whereby the CP is acquired last (Radford, 1988; Rizzi, 1994; Friedmann et al., 2021; Diercks et al., 2023).
- However, notable gap in acquisition data so far → acquisition of illocutionary complementisers in Ibero-Romance (Corr, 2016, 2022).
 - Complementisers that do not function as a subordinator and instead introduce non-embedded matrix clauses, with several illocutionary functions.

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The development of complementisers

Initial observations

(1) Subordinating complementisers

a. Li he dit **que** aquesta tarda vaig a Barcelona (Catalan)

CLIO= AUX.1SG told that this afternoon go.1SG to Barcelona

'I have told him/her that I'm going to Barcelona this afternoon to see a concert in El Liceu.'

b. No podía creer **que** hubiesen ganado la lotería (Spanish)
not can.IMPF.3SG believe that AUX.SUBJ.IMPF.3PL won the lottery

'He/she couldn't believe that they'd won the lottery.'

(2) Illocutionary complementisers

a. Ai, que t'atrapo! (Catalan)
hey that.excl cl.Do=catch.1sg

"I'm coming to get you!" (Corr, 2016, p. 88)

b. No hagas esto, **que** luego mamá se enfada (Spanish)

not do.SUBJ.2SG this that.CONJ then mum CL.REFL= get.angry.3SG

'Don't do this, because then mum gets angry.'

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In a nutshell

- Introduce illocutionary complementisers, including their typology in Ibero-Romance and their syntactic properties.
- 2. (Selective overview of) approaches to syntactic development.
- Results of a corpus study with CHILDES on 5 Catalan and 5 Spanish children, comparing emergence of illocutionary vs embedding complementisers and testing the approaches' predictions.
- 4. Preliminary look at Italo-Romance data and its potential insights.

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- I. Introduction
- 2. Illocutionary complementisers in Ibero-Romance
- 3. Theoretical background and hypothesis
- 4. Corpus study
 - Methodology
 - Results
- 5. Discussion and theoretical implications
 - Theoretical implications
 - Future directions: first impressions on Italian child data
- 6. Conclusion
- 7. Appendix: additional graphs
- 8. References

Typology and syntactic properties

- A conspicuous property of Ibero-Romance is the use of the complementiser que to introduce matrix clauses with a range of illocutionary functions (besides its use as a subordinator).
- Four types, largely following (Corr, 2016): exclamative, quotative, conjunctive and interrogative.

(3) Exclamative que

Alça, ${\it que}$ ho has llençat tot al terra! (Catalan) hey ${\it that.excl}$ CL.DO= AUX.2SG throw.PART everything on.the floor

'Hey! You've thrown everything on the floor!'

Typology and syntactic properties

(4) **Quotative que**. Context: the speaker is asked who had just phoned

Era Carmen. **Que** me llamaba parar felicitarme (Spanish)

was Carmen that.QUOT CL.DO= phone.IMPF.3SG to congratulate=CL.DO

'It was Carmen. She phoned me to wish me a happy birthday.'

(5) Conjunctive que

No li diguis això a la Paula **que** és un secret (Catalan) not CL.10= tell.SUBI.2SG this to the Paula that.CONI is a secret

'Don't tell this to Paula because it's a secret.'

Typology and syntactic properties

(6) Interrogative que (only available in Catalan)

Que vindràs al final a veure la pel·lícula? (Catalan)
that.INT come.FUT.2SG in.the end to watch.INF the film

'Are you coming to watch the film in the end?'

- Also instances of Adjective/Adverb + que (Cruschina and Remberger, 2018), and cases of emphatic polarity particles + que (Batllori and Hernanz, 2013):
- (7) a. ¡Claro **que** entendió! (Spanish) clear that understand.psr.3sG

'Of course he/she understood!'

b. Sí **que** val la pena, tenies raó (Catalan) yes that cost.3sg the struggle have.IMPF.2sg right

'It certainly is worth it, you were right.'

Typology and syntactic properties

- **Corr (2016):**
 - Exclamative and conjunctive que in a higher Speech-Act domain (dominating CP).
 - Quotative que in the CP domain (see also Corr, 2022, for a revised treatment).
- Prieto and Rigau (2007):
 - Interrogative que is C-based: in Fin.

speaker-hearer domain (perspectival, interactional)

Figure: Clausal structure with speech-act layers (Biberauer, 2018, p. 4).

 Embedding complementisers standardly C-heads and, in cartographic approaches, typically in Rizzi's (1997) highest Force head.

Like embedding complementisers, illocutionary complementisers are also **structurally very high** elements.

3. Theoretical background and hypothesis

Approaches to syntactic development

- Contrasting the acquisition of these two complementisers is potentially instructive in (at least) two ways:
 - Possible developmental differences between complementisers (speaker-hear-oriented and main-clause vs embedded-clause).
 - Brings a new piece of adjucating evidence for contemporary acquisition hypotheses.
- → Focus here brief and selective overview of (generative) approaches to syntactic development.
 - Bottom-up approaches
 - 'Inward' approaches

(I set aside Continuity approaches for time considerations)

Approaches to syntactic development

- Bottom-up development: the development of structurally-lower elements precedes that of structurally-higher ones. Therefore, general acquisition timeline is vP → TP → CP (i.a., Radford, 1988; Rizzi, 1994; Friedmann et al., 2021; Diercks et al., 2023).
- Arguably the **dominant** perspective in maturational or non-continuity approaches.

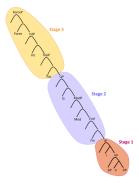


Figure: Stages of acquisition of the clausal domain in the Growing Trees Hypothesis (Friedmann et al., 2021, p. 12)

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Approaches to syntactic development

• Inward development: development begins in 'structural edges', meaning the vP domain and (part of) the CP (and, in some approaches, Speech-Act) domain emerge early, before the TP domain (variously entertained; Galasso, 2003; Tsimpli, 2005; van Kampen, 2010; Biberauer and Roberts, 2015; Biberauer, 2019; Heim and Wiltschko, 2021).

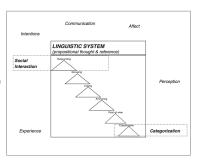
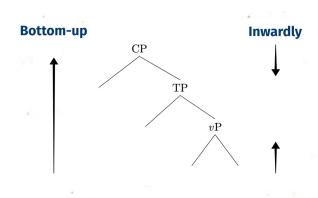


Figure: Bridge Model (Hinzen and Wiltschko, 2022)

Approaches to syntactic development



Approaches to syntactic development

Predictions for the development of complementisers

- Bottom-up development: expects all elements in the (higher) left periphery to emerge at the very end of the learning path → both kinds of complementisers should emerge substantially late.
- Inward development: expects a possible developmental mismatch

 if the CP emerges early, early production of (some) illocutionary complementisers is anticipated. Subordinating complementisers might develop later as they require knowledge of embedding.

4. Corpus study

Structures analysed

- Summarising the foregoing discussion, the following structures were analysed in every corpus:
 - 1. Illocutionary complementisers
 - a) Exclamative
 - b) Conjunctive
 - c) Quotative
 - d) Interrogative (in Catalan only)
 - e) Adverb/adjective + que
 - f) (Topic) sí/no que ('yes/no that')
 - 2. Subordinating complementisers
 - a) Complement clauses
 - b) Relative clauses introduced by que

Methodology

 Using CLAN, we automatically extracted all occurrences of que and their conversational contexts for 10 Catalan and Spanish children in CHILDES (MacWhinney, 2000).

Table: Children studied in the CHILDES database and summary information.

Language	Corpus	Children	Age range	Files analysed	MLU range
Catalan		Laura	1;07-4;00	19	1.03-3.47
	Serra/Solé	Gisela	1;07-4;02	20	1.02-3.51
		Àlvar	1;02-3;01	21	1.07-3.37
		Guillem	1;01-4;00	34	1.01-3.88
	Júlia	Júlia	1;07-2;06	17	1.15-2.74
Spanish	Llinàs/Ojea	Irene	0;11-3;02	40	1.0-4.94
		Yasmin	1;10-2;09	47	1.29-3.21
	Aguado-Orea/Pine	Juan	1;10-2;05	65	1.34-3.39
	Aguirre	Magín	1;07-2;10	29	1.24-3.07
	Vila	Emilio	0;11-4;08	35	1.0-3.23

 This yielded N = 1318 utterances from children aged 0;11 to 4;08 that contained a complementiser. 1009 of them (76.6%) corresponded to examples with illocutionary and 309 corresponded to subordinating complementisers (23.4%).

Table: Proportion of use by type of complementiser.

Language	Children	Illocutionary	Embedding
	Laura	154 (76.2%)	48 (23.8%)
	Gisela	148 (73.6%)	53 (26.4%)
Catalan	Àlvar	9 (60%)	6 (40%)
	Guillem	85 (81%)	20 (19%)
	Júlia	3 (75%)	1 (25%)
	Irene	58 (64.4%)	32 (35.6%)
	Yasmin	36 (85.7%)	6 (14.3%)
Spanish	Juan	164 (67.2%)	80 (32.8%)
	Magín	248 (84.1%)	47 (15.9%)
	Emilio	104 (86.7%)	16 (13.3%)
Total		1009 (76.6%) 309 (23.4	

Order of emergence

 Results reveal two key trends. These regard (i) order of emergence and (ii) syntactic productivity and lexical (non)specificity.

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Order of emergence

- Results reveal two key trends. These regard (i) order of emergence and (ii) syntactic productivity and lexical (non)specificity.
- First generalisation → illocutionary complementisers typically appear well before embedding complementisers and never later (in two children only, they emerge simultaneously).

(Full developmental trajectories for every child, file by file, are available in the Appendix)

Table: Emergence of illocutionary and embedding complementisers.

Language	Children	Illocutionary	Embedding
	Laura	1;10.22	3;00.02
		1.15 MLU	2.42 MLU
	Gisela	1;08.24	2;08.00
		1.13 MLU	2.61 MLU
Catalan	Àlvar	2;02.06	2;06.25
Catalan		1.84 MLU	1.91 MLU
	Guillem	2;02.28	2;11.25
		1.54 MLU	2.44 MLU
	Júlia	2;06.25	2;06.25
		2.74 MLU	2.74 MLU
	Irene	1;08.09	1;09.10
		1.88 MLU	3.28 MLU
	Yasmin	1;10.08	2;05.18
		1.93 MLU	2.47 MLU
Spanish	Juan	1;11.11	2;01.21
Spailisii		1.58 MLU	1.77 MLU
	Magin	1;09.01	1;10.00
		1.78 MLU	2.73 MLU
	Emilio	2;04.17	2;04.17
		2.18 MLU	2.42 MLU
Average		1.67 MLU	2.42 MLU

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Results Order of open

Order of emergence

On average, the two kinds of complementisers emerged at the following MLU values:

Table: Average and range of MLU values across language groups for the emergence of illocutionary and embedding complementisers.

	Illocutionary	Embedding		
Catalan Spanish	MLU 1.41 (range 1.13-1.84) MLU 1.87 (range 1.58-2.18)	MLU 2.35 (range 1.91-2.61) MLU 2.49 (range 1.77-3.28)		
Combined	MLU 1.67 (range 1.13-2.18)	MLU 2.42 (range 1.77-3.28)		

A paired-samples t-test confirms that there was a highly statistically significant difference of 0.5456 between the MLU value of emergence of illocutionary (M = 1.67, SD = 0.35) vs embedding complementisers (M = 2.42, SD = 0.45), with the former being much more likely to emerge significantly earlier (t(17) = 5.6201, p < 0.001).

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Order of emergence

(8) Illocutionary complementisers

a. **Que** ja no fa mal? (Guillem; MLU 1.99) that.INT already not make.3SG pain

'Does it not hurt anymore?'

b. Ai, que crema! (Laura; MLU 1.35)
ouch that.EXCL burn.3sg

'Ouch, it's burning!'

c. **Que** no quiero (Juan; MLU 1.58) that.OUOT not want.ISG

'(I said) I don't want to.'

d. Ay, no, **que** me harán daño a (Emilio; MLU 2.2) ouch no that.coni CLIO= do.FUT.3PL harm to

la barriga the tummy

'Ouch, no, they'll hurt my tummy'

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Order of emergence

- (9) Embedding complementisers
 - a. Una vegada hi havia un nen **que** es (Júlia; MLU 2.74) one time CLLOC= AUX.IMPF.3SG a boy that CL.REFL=

diu Andreu say.3sg Andreu

'Once upon a time, there was a boy named Andreu.'

b. En una capsa **que** hi ha aquí (Àlvar; MLU 2.82) in a box that CLLOC= AUX.3SG here

'In a box that's here.'

c. Quiero **que** sea un zapato (Yasmin; MLU 2.47) want.1sg that be.SUBJ.3sg a shoe

'I want it to be a shoe.'

d. ¿No ves **que** estaba con la pelota? (Irene; MLU 3.23)

'Don't you see it was next to the ball?'

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Frequency and lexical (non)specificity

- What's the nature of these early illocutionary complementisers (productive, lexically-specific, rote-learned, etc.)?
 - A look at the frequency and lexical (non)specificity of the earliest uses of illocutionary complementisers reveal likely syntactically productive knowledge.

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Frequency and lexical (non)specificity

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 - A look at the frequency and lexical (non)specificity of the earliest uses of illocutionary complementisers reveal likely syntactically productive knowledge.
- Second generalisation: Before embedding complementisers first emerge, early illocutionary complementisers are neither infrequent nor lexically-specific.

Table: Types of verbs with illocutionary complementisers before the emergence of embedding complementisers and overall frequency of illocutionary complementisers at this point

	Unacc	Unerg	Trans	Modal	Copula	Impers	Freq
Laura	√		1	√	√	√	20
Gisela	/	✓	/	✓	✓		7
Àlvar					✓		1
Guillem	1	/	1	/		✓	11
Irene			1				1
Yasmin	1	/	1		1	✓	18
Juan	1	/	1		1		10
Magín	1		✓				10

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Frequency and lexical (non)specificity

Frequency

 Illocutionary complementisers emerge early, and they are also frequent in most children before embedding complementisers emerge.

Lexical variety

- For most children, illocutionary complementisers can be found with a wide range of verb classes, indicating these complementisers likely do not form part of rote-learned formulae.
- Combined together, these points strengthen the hypothesis that illocutionary complementisers are acquired early, before embedding complementisers, and in a productive manner.

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Overall development

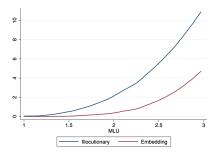


Figure: The development of complementisers in the Catalan and Spanish children.

• Illocutionary complementisers both **emerge earlier** and **develop faster** in frequency than their subordinating counterparts (Kolmogorov-Smirnov test indicates that the two curves are *not* equal, D = 2.0000, p < .001)

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5. Discussion and theoretical implications

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Theoretical implications

- 'Developmental mismatch' supports common predictions made by approaches that anticipate early emergence of the CP/SAP domains ('inward development' approaches).
- Early emergence, frequency and lexical variety lend credence to these conclusions.

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- 'Developmental mismatch' supports common predictions made by approaches that anticipate early emergence of the CP/SAP domains ('inward development' approaches).
- Early emergence, frequency and lexical variety lend credence to these conclusions.
- Significant consequences for bottom-up approaches ('late CP') → not all complementisers are equally stagnant.
 - Open question whether the patterns can be reconciled with bottom-up maturation. I
 preliminarily suggest that bottom-up approaches are not well-suited to account for this
 data (see also Bosch, 2023, for other empirical evidence).
 - Instead, results point, in a novel way, to an acquisitionally advantaged role of peripheries and edges, interactional language and the CP domain more broadly.

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Future directions

First impressions of Italian child data

- Illocutionary complementisers also occur in Italo-Romance (in a more restricted form than Ibero-Romance), e.g., CIDs and NIDs generally allow some conjunctive uses of che, exclamative che (typically with subjunctive mood) and, in some varieties, interrogative che (Cruschina and Remberger, 2016).
- Preliminary look at CHILDES Italian data → attested relatively early on and in creative configurations that are ungrammatical in many Italian varieties and unattested in their parental input (according to 3 Italian informants).
- (10) a. **Che** gira (Martina; 1;11.02, MLU 1.99) **that** stir.356

'He/she/it stirs (it)'

b. Che legge (Martina; 1;08.02, MLU 1.9) that read.356

'She is reading' (in response to Diglielo alla mamma cosa fa la bimba, 'tell mum what the child is doing')

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Future directions

First impressions of Italian child data

(11) a. Che ride! (Martina; 1;11.02, MLU 1.99) that.EXCL laugh.3SG

'He/she is laughing!'

b. Che piove (Martina; 2;01.12, MLU 1.99) that.conj rain.3sg

'It's raining' (in response to *l'ombrello?*, 'the umbrella?', asking what someone was doing with an umbrella)

 All examples pre-date the emergence of embedding che in Martina (at 2;03.01 and MLU 2.55).

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Future directions

First impressions of Italian child data

 This apparent (over)generalisation of interactionally-oriented functions of che extends to later developmental stages:

```
(Diana; 2;06.00, MLU 5.53)
(12) a. Oh. che
                       c'ha
                                        un lunghi
         oh that.EXCL CL.LOC=have.3SG a
                                           long.PL
            pelosi!
            hairy.pL
         (lit.) 'Oh, there's a long hairy!' (possibly meaning 'There's (a) long hair(s)!)
     b. Che
                   io ti
                            chiudo
                                                      (Diana; 2;06.00, MLU 5.53)
                                       la bocca.
         that.ouot | CL.IO= close.1SG the mouth
           sai?
            know.25G
          '(I've said) I'll shut your mouth, you know?'
```

Future directions

First impressions of Italian child data

(13) a. **Che** lo metto qui! (Elisa; 2;01.06, MLU 4.47) **that.quot** CL.DO= put.1SG here

'(I've said) I'm putting this here' (uttered after lo metto qui)

b. E che vuoi un posto tu? (Marco; 2;01.27, MLU 2.16) and that.INT want.2SG a place you

'And do you want a place?'

All data taken from the following CHILDES corpora: Calambrone (Martina and Diana) and Tonelli (Elisa and Marco), from children growing up in Central/Northern Italy

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Future directions

First impressions of Italian child data

• Creative, illocutionary 'inventions' (overgeneralisations) in child Italian.

Table: Distribution of illocutionary complementisers across grammars

	EXCL	CONJ	QUOT	INT
Catalan	1	1	✓	✓
Spanish	1	✓	✓	
CIDs/NIDs	(✓)	1		(✓)
SIDs	✓	✓	✓	1
It. children	✓	✓	✓	1

- Possible stage in which children 'maximise' the use of illocutionary che. They
 exploit a grammatical option which is only occasionally present in the adult input
 and capitalise on the structural/representational options available in their growing
 system (reminiscent of the case study on DOM in Belletti, 2022).
 - → Similar 'errors' may be theoretically elucidating regarding children's use of speaker-hearer-related items and the formal status of children's representations.

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6. Conclusion

Conclusion

→ Two complementisers, two acquisition timings: Illocutionary complementisers before subordinating complementisers, problematising bottom-up approaches to development.

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Conclusion

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- I interpreted them as favouring 'inward development' approaches → argument for early emergence of a CP/Speech-Act domain.
 - Further work needed:
 - Other (Ibero-)Romance varieties (e.g., Portuguese).
 - Italo-Romance data shows initial promise → early emergence of illocutionary complementisers + (over)generalisation to target-deviant speaker-hearer functions (concordant with several inward development approaches).
 - Comprehension/behavioural studies
 - Alternative explanations for the patterns?

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 - Comprehension/behavioural studies
 - Alternative explanations for the patterns?
- More broadly, further study on the acquisition of speaker-hearer and discourse-oriented material will help elucidate the formal make-up of early grammars.

Thank you!

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7. Appendix: additional graphs

Appendix

Catalan data

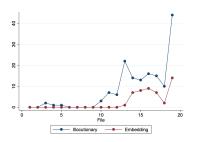


Figure: Laura's development

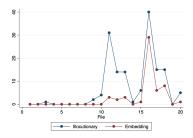


Figure: Gisela's development

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Appendix

Catalan data

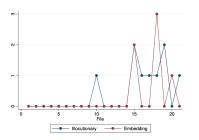


Figure: Àlvar's development

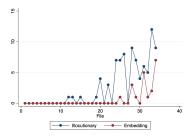


Figure: Guillem's development

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Appendix Catalan data

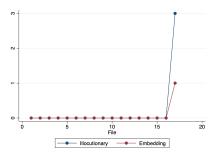


Figure: Júlia's development

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Appendix Spanish data



Figure: Irene's development

20 File

Embedding

Illocutionary

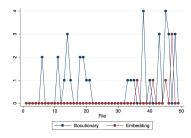


Figure: Yasmin's development

Appendix

Spanish data

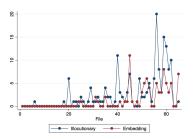


Figure: Juan's development

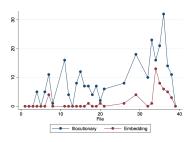


Figure: Magín's development

Appendix Spanish data

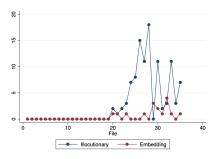


Figure: Emilio's development

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