The acquisition of Italian imperatives: a corpus study on CHILDES and notes on the location of the Jussive head

Imperatives. Imperatives (IMPs) are peculiar structures. Despite being non-finite, they are root constructions (Di Domenico 2004). They are usually assumed to raise to CP, mainly to check imperative force (Rivero 1994b, Zanuttini 1997, Platzack & Rosengren 1998, Salustri & Hyams 2003, Belletti 2009) and to account for enclisis, a core property of IMPs in Romance (Rooryck 1992, Belletti 2009). Their morphologically meagre form has been analyzed as the lack of some (Platzack & Rosengren 1998, Belletti 2009) or all (Di Domenico 2004) inflectional projections. Imperatives do not cooccur with a prototypical subject, unless it is focused or topicalized, both in pro-drop and non-pro-drop languages (Di Domenico 2004, Platzack & Rosengren 1998). Interpretive restrictions on imperative subjects are argued to be syntactically encoded in a specialized projection, the Jussive head (Zanuttini 2008, Zanuttini et. al 2012). Moreover, IMPs are among the very first verbal forms children acquire (Belletti & Guasti 2015, Salustri & Hyams 2003, 2006).

Acquisition. It has been empirically observed that linguistic development is not gradual, but proceeds in three clear-cut stages which follow the geometry of the syntactic tree, in a bottomup manner (Growing Trees (GTs) approach, Friedmann et al. 2021). In the first stage, children are able to produce structures involving vP and IP. The second stage comprises structures involving the first portion of the Left Periphery (LP), up until the Q/Foc head (Rizzi & Bocci 2017). In the third stage, the syntactic tree becomes fully mature with the availability of the highest portion of the LP, up until ForceP.

Salustri & Hyams (2003, 2006) notice that IMPs are analogues of Root Infinitives (RIs) in a universal developmental stage that holds cross-linguistically. Around the 2nd and 3rd year of age, children acquiring different languages robustly overproduce tenseless verbal forms: RIs in non-null-subject languages, IMPs in null-subject languages. Rizzi (1993/1994, 2006) argues that the preference children exhibit w.r.t. RIs is due to their economical nature: RIs are the result of a Truncation operation available in development, whereby higher layers of a clause are cut off to reduce the computational cost. Taken together, the maturation of the syntactic tree (Friedmann et al. 2021) and the Truncation mechanism (Rizzi 1993/1994) show that higher layers of the clause represent a source of complexity for children.

The issue. If one follows the traditional assumption that IMPs raise to the LP, what emerges from acquisition is unexpected. How is it possible that IMPs appear early but occupy an area of the clause which is acquired only in later stages? Additionally, how is it possible that children going through the same developmental stage, in one case overproduce a truncated, more economical form (the RI), while in the other case (IMPs) they need to project the structure up until ForceP? This work is aimed at reconciling the tension between evidence from acquisition and current assumptions on the structural analysis of the imperative, with a focus on Italian.

Corpus study. A longitudinal corpus study was carried out to investigate whether children produce IMPs before the LP is acquired. Spontaneous production from four Italian children was obtained from the CHILDES database (MacWhinney 2000) and examined in a semi-automatic way, searching for occurrences of imperatives and syntactic structures ascribable to the three GTs stages (Friedmann et al., 2021). Results show that all four children produce imperatives before the highest part of the LP is acquired (ex. relatives, why-questions). One of them utters IMPs before the whole CP layer becomes available (before yes/no questions, wh-questions, relatives, why-questions). Since these results form a Guttman Scale (Guttman 1944; 1950; Friedmann et al. 2021), they are incompatible with IMPs raising to CP.

Proposal. On these grounds, I suggest that (Italian) IMPs do not raise to the LP. Rather, they are "literally reduced" structures, borrowing Cecchetto and Donati's (2022) terminology: they do not involve CP, nor higher IP projections. Interestingly, it was already suggested by Salustri and Hyams (2006, footnote 17) and Di Domenico (2004, footnote 31) that imperatives could remain in the low IP area of the clause, where the low Focus and low Topic heads are located (Belletti 2004). Following Belletti (2009, building on Kayne 1991), imperative morphology is checked in a low IP position (ImpP). Imperative clauses are also endowed with a unique Jussive projection (JussP), which syntactically encodes the addressee and provides imperative subjects with 2nd person restrictions (Zanuttini et al. 2012). I argue that the imperative verb raises past the low Focus and low Topic heads (as in 1), checks its morphology in ImpP and finally lands in JussP (2). These positions cannot be located in the LP, on the basis of empirical evidence from acquisition. Moreover, intermediate IP projections are absent in IMPs (Belletti 2009, Di Domenico 2004): the structure is radically reduced, comprising only VP and a few positions in the low IP area (2).

1)	Porta=la	TU!	(Italian)
	bring-IMP- 2SG=it.CL.F.2SG 'YOU bring the suitcase!'	you- FOCUS.2SG	[Ex. from Di Domenico 2004)

2) [JussP [ImpP [TopP [FocP [VP...]]]]

At present, this analysis is limited to 2nd person singular imperatives in Italian, i.e. imperatives with dedicated morphology, as they cannot be negated and are overproduced by children. Suppletive forms (2nd person plural IMPs) might need a different analysis. Since they can be negated, but display enclisis and incompatibility with embedding and questioning, it could be speculated that these verbal forms still lack the CP layer, but involve more functional projections in IP. In this light, the Jussive head here would be firstly merged in the low IP area and then raise to T, yielding the T-Jussive head à la Zanuttini et al. (2012).

Discussion. On the basis of acquisition data, it is suggested here that Italian imperatives are radically reduced structures; therefore, the Jussive head à la Zanuttini et al. (2012) must be located in the low portion of IP. At least w.r.t. imperatives, children show mastering of speaker/hearer-related phenomena from early on. Moreover, core properties of IMPs in Romance are all expected and unified under the same explanation if we consider IMPs as radically reduced structures: the incompatibility with embedding, questioning, negation, prototypical subjects and subject clitics follows from the lack of CP and high IP projections. As for enclisis, as long as imperative morphology is checked in a low position and the verb can subsequently left-adjoin to the clitic (Belletti 1999, building on Kayne 1991), there is no need for the verb to mandatorily raise to the CP.

Selected references.

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