"Movement triggers and the etiology of grammaticalization: the case of Italian postposition fa".

#### Abstract

This work deals with the Italian particle fa "ago", which together with expressions of time measure localizes an event in a certain point preceding the moment of elocution. The aim is to show how the particle developed from Old Italian to present, assuming that fa was originally the 3rd person singular of the verb fare "to make/to do".

Drawing on historical data, I will suggest an analysis based on movement, arguing for a movement-driven grammaticalization process responsible for the origin of this particle/adposition. This process is interesting because, if from one side confirms the prediction of standard theoretical views on grammaticalization (Roberts and Rousseau, 2003), so that the mechanism of grammaticalization is the gradual loss of movement, from the other side challenges these views because the items moved leftward in the process are not *targets* of grammaticalization, suggesting a "parasitic etiology" of the process that turns light verbs into particles.

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#### 1. Introduction

This paper deals with the Italian particle *fa* "ago", which together with an expression of time measure (three years, five days, two week, etc.) localizes an event in a certain point preceding the moment of elocution. The aim of the paper is to show how the particle developed from Old Italian to present, assuming that it was originally the 3rd person singular of the verb *fare* "to make; to do".

I will try to suggest an analysis based on movement, thus arguing for a movement-driven grammaticalization process¹ responsible for the origin of the particle *fa* (an item symmetrical to its English counterpart, *ago*). The present analysis implies, *prima facie*, a reconstruction from a bi-clausal architecture (1a) to a mono-clausal one (1b).

As Kurzon (2008) has shown in details (with examples from Indo-European, Semitic, Caucasian and Austronesian languages), the categorical status of the (deictic) particles similar to *fa* and ago<sup>2</sup> crosslinguistically is quite controversial, but the empirical fact that all natural languages have temporal deictic

<sup>1</sup> Grammaticalization is standardly defined as the process by which new grammatical morphemes are created (see Hopper and Traugott 2003).

<sup>&</sup>lt;sup>2</sup> Ago is generally considered to be a postposition, preceded by its complement, a temporal NP (see e.g. Kurzon, 2008; Hagège, 2009). Another possibility, explored in Williams (1994), is that ago behaves like an intransitive preposition, namely a preposition that does not license a complement. Italian fa is generally treated as a postposition, which is unique among all the prepositions in the language (cf. Haspelmath, 1997). Two hints for the adpositional nature of fa are the following: (i) Italian uses the preposition fra/tra ("in, "between") (e.g. Gianni partirà fra tre settimane, Gianni will leave in three weeks) to express the symmetrical {DISTANCE-FUTURE} function, namely to mark the distance of a point in the future from the time of speech; (ii) fa can alternate with the item addietro, "ago, "back" (e.g. Gianni è partite due anni addietro, Gianni left two years ago), which is traditionally considered an adverb in Italian grammars (cf. e.g. Vocabolario degli Accademici della Crusca 4th ed. Vol. I, 54), but it clearly composed by the simple preposition a "to" and the locative preposition dietro "behind, back".

expressions referring to the *gap* of time between the moment of speaking and a previous point (or string) in time is uncontroversial<sup>3</sup>. Haspelmath (1997) dubbed {DISTANCE-PAST} their semantic function as anchors in time<sup>4</sup>. Notice that in contemporary Italian bi-clausal constructions, as the one represented in (1a), are still an attested possibility (i.e. high/formal registers, dialectal variations, etc., see Munaro, 2009). They have been labelled *temporal existential constructions* by Rigau (2001), who showed that they are ubiquitous in Romance languages and analyzed them as involving a layered complementizer's field, along the lines of Rizzi<sup>5</sup> (1997). I will show that these temporal structures are sorts of *oblique-clefts* (along the lines of what has been originally proposed by Benincà, Salvi and Frison, 1988). After a description of comparative and historical data, we will see in which way movement is responsible of the dynamics of the grammaticalization process of the particle *fa*.

In previous work on the topic, Vanelli (2002) argues that whereas the deictic value of the Old Italian expression resulted from the compositional meaning of the single elements which formed it (in the biclausal construction), in Modern Italian the syntactic *transparence* is lost and the modern form has become "lexically deictic".

The standard Old Italian way to express {DISTANCE-PAST} value is given in (2) below (cf. Vanelli, 2002).

<sup>&</sup>lt;sup>3</sup> Following Haspelmath (1997), it can be said that all languages have a temporal deictic expression referring to the 'elapsed time' between the moment of speech and a previous instant in time. As shown by Kurzon (2008), the type of expression used to relate to this gap of time varies among natural languages between adpositional phrases, on the one hand (either prepositional phrases as, for instance, in German, Czech or Polish or postpositional phrases as, for instance, in Persian, Turkish or Finnish) and adverbial phrases on the other (as, for instance, in Russian, Afrikaans, Bengali or Tagalog).

<sup>&</sup>lt;sup>4</sup> Another possible "tag" is *Deictic Scalar Localization in the Past* (cf. Bourdin, 2011).

<sup>&</sup>lt;sup>5</sup> Boeckx (2007) argues for a similar analysis of pseudo-clefts. Basically, a layered (stretched) CP allows leftward derivational analyses of cleft-like structures (e.g. by fronting the remnant site of movement across the moved constituent).

A very interesting difference between bi-clausal constructions such as the one represented in (1a) and mono-clausal constructions such as the one represented in (1b) is the following: the particle fa in the bi-clausal construction behaves like a verb, not only because it is inflected in the third plural if the time units are plural, as shown in (1b) above, but also because the *anchoring* is not necessarily deictic, as shown in (3). Moreover, the verb *fare* can have different tenses besides present indicative, as you may see in (4).

- (3) Domani fanno due anni che Gianni è partito

  Tomorrow make<sub>3PL.PRES</sub> two years that Gianni is left

  'Tomorrow it will be two years *since* Gianni left.'
- (4) Ieri faceva un anno che Gianni è partito
  Yesterday make,3sg.pst.imprf a years that Gianni is left
  'Yesterday it was a year *since* Gianni left.'

It appears clearly that in the bi-clausal structure, in which the *time measure* expression and the verb *fare* agree, the anchoring is not necessarily deictic but can be also anaphoric to a point in time recoverable from the context<sup>6</sup>, as shown above in (3) and (4), while the mono-clausal expression with the invariable particle *fa* is necessarily deictic, as shown in (5) below.

(5) \*Domani Gianni è partito due anni fa (?? domani)

Tomorrow Gianni is left two years ago (tomorrow)

lit. 'Tomorrow Gianni left two years ago (tomorrow)'

<sup>&</sup>lt;sup>6</sup> It is interesting to note that, in English, until 1900, expressions such as *ten years ago* were in competition with constructions instantiated by *ten years since*, in order to convey {DISTANCE PAST} functions (cf. Bourdin, 2011). Cross-linguistic examples of such a competition/tension - between *ago*-like items and *since*-like items - seems to be quite common (cf. Haspelmath, 1997, 40-42).

Hence, while *fa* is frozen in 3rd singular present indicative, in the bi-clausal structure the verb *fare* can be inflected in different moods and tenses.

# 2. Evidence for a verbal origin of fa

The grammaticalization pattern I argue for here, namely {(light/auxiliary/dummy) verb ⇒ adposition/particle}, is widespread across natural languages (see, e.g. Heine and Kuteva, 2002; Roberts and Rousseau, 2003; Bowen, 2008; Kayne, 2009 and especially Hagège, 2009, 151-162). Specifically, Hopper and Traugott (1993, p. 108) include light verbs (labelling them vector verbs) and auxiliaries as optional stages on the grammaticalization cline. We assume here that the Italian light/dummy verb fare (to make, to do) is the source of the particle fa.

The first step is to exclude other possible sources involved in the process. Elerick (1989) assumes that fa has an adverbial origin; namely, this postposition would be "a hypercorrective reflex of Latin ab", enhancing a diachronic shift from the Latin adverb  $abhinc \rightarrow a(b) \rightarrow ha \rightarrow fa$ . This proposal seems unappealing, especially when Italian is compared to other Romance languages. In particular, Elerick (1989) assumes that the same process occurs in Spanish, in which however, have (ago) is intuitively/immediately linked to the verb haver (to do). See the example in (6).

(6) Hace cinco años murió Soraya ⇔ Soraya murió hace cinco años
 Ago five years die. 3sg.PAST Soraya
 'Soraya died five years ago.'

In Portuguese and Sicilian<sup>7</sup>, the words for "ago" are also derived from a light verb/existential copula,

<sup>&</sup>lt;sup>7</sup> Note that in Sicilian expressions like *cincu ywòrna fa*, five days ago, parallel to Italian, are also quite popular. Furthermore two more formulas with the same function, also quite common, are: (i) *cincu jorna oji*, lit. 'five days today', five days ago, and (ii) *du ann ora* (specialized for years) lit. 'two years now', two years ago. Comparing the three examples given here, it appears

haver/aviri meaning "to have", giving há/àvi (ago), as in (7a,b).

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(7) a. há cinco anos... Portuguese

have.<sub>3sg.pres</sub> five years

'five years ago.'

b. àvi wòttu ywòrna... Sicilian

have.<sub>3sg.pres</sub> eight days

'eight days ago.'
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French, in which the verb *avoir* (to have) is used in combination with the adverb *y* (there), as in (8), is even more transparent in this sense<sup>8</sup> (cf. Kurzon, 2008 and Hagegé, 2009 for extended cross-linguistic surveys of these temporal deictic items).

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(8) J'ai vu le film il y a trois semaines.

I saw the movie ago three weeks.

'I saw the movie three weeks ago.'
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that in one case we have a measure of time and the grammaticalized verb fa, while in the other two cases there is no grammaticalized verb (fa or avi, or other), and the time of elocution is overt (now, today).

mouin té (i) Jodi-a fè kat jou, lakay mouin. today make four day house my PAST 'Four days ago I was in my house.'

<sup>&</sup>lt;sup>8</sup> The verbal nature of the French formula is quite evident because it can be used with different tenses e.g. *Ily aura un an dans quelques jours...*, "In a few days, it will be a year *since...*" As already noted here for Italian, also in French the anchoring is not necessary deictic (cf. Hagège, 2009, 301-302). Nevertheless, for evidence of the prepositional nature of *ily a* in contemporary French, see Kurzon (2008, 216). Also, Interestingly Haitian Creole, a language based largely on 18th to 21st-century French, uses the particle *fe* (derived from the verb "to make") for {DISTANCE-PAST} expressions, like Italian and Spanish. See the example in (i) below taken from Haspelmath 1997, 87):

Finally, Romanian uses two formulas: (i) an adverbial in the form of a PP (*in urmă*) after the temporal NP, as in (9) and (ii) the prenominal particle *acum* (now), as in (10) to express {DISTANCE-PAST} meaning.

- (9) cu două zile în urmă 'two days ago.'
- (10) Am fost în România acum cinci ani 'I went to Romania five years ago.'

Interestingly, the item *urmă* in (9) derives from a *weak* form of 3rd person singular of the verb *a urma*, *a urmări*, 'to follow', as shown below in (11), taken from Sánchez Miret (2006, 39):

(11) Cum boala *urmă* bolnavul și-l pune în pat, așijdere și scumpeatea *urmază* scumpulu și-l pune la sărăcie.

'As sickness follows the sick and prostrates him in bed, so stinginess follows the stingy man and brings him to poverty'.

Moreover, diachronic data clearly show that the bi-clausal structure of (1a) originates far earlier than the mono-clausal structure of (1b). The first occurrence of a simple clause with *fa* being used with an adpositional value that I have retrieved from my queries on Old Italian corpora dates ca. 1380 AD, while bi-clausal architectures are attested since the earliest stages/documents covered by the available databases<sup>9</sup>.

See the examples in (12) and (13) below.

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<sup>&</sup>lt;sup>9</sup> The examples in (12) and (13) are taken from the OVI (Opera del Vocabolario Italiano) databases, which include most of the known Old Italian texts from 1200 to 1400, approximately (see http://www.ovi.cnr.it).

(12) a. Or fa un anno, vitama, che 'ntrata mi se' ['n] mente Now make.3SG,PRES a year, my-life, that entered CL\_1SG,DAT are in mind 'My life, you came into my mind a year ago'. [Cielo d'Alcamo, Contrasto, 1231/50, Sicilian-Tuscan] b. Poco fa ch' io dalla chiesa tornai

b. Poco fa ch' 10 tornai dalla chiesa

Short make.3SG.PRES that I come-back.1SG.PST from-the church

'I came back from the church, short time ago.'

[Libro dei Sette Savi, XIII Century, Tuscan]

- c. Oggi fa XXVI giorni, che lo re Marco entrò negli borghi [...]

  Today make.<sub>3sg.pres</sub> XXVI days that the king M. came in-the villages.

  'King Marco came into the villages twenty six days ago, today'

  [Tavola ritonda, first half of XIV Century, Florentine]
- (13) a. Boninsengna molto tempo fa à deto [...]

  Boninsengna long time ago have<sub>3sg.PRES</sub> said

  'Boninsengna has said long ago...'

  [Bassano da Pessina- Fr.Datini, *Milan-Florence* 17.05.1384]
  - b. Io salai forse fa porco otto dì un Ι put-salt<sub>1sg,pst</sub> days a pork maybe eight ago 'I seasoned a pork with salt maybe eight days ago' [Sacchetti, Trecentonovelle, second half of XIV Century, Florentine]
  - c. Non si fa il lavorio principiato già fa uno mese.

    Not CL<sub>IMP</sub> make.<sub>3sg.PRES</sub> the work started already ago a month.

    'We do not do the work started a month ago'

    [Fr.Datini Lapo Mazzei, *Prato, near Florence*, October 1394]

d. òlla incominciata già fa sette mesi have<sub>.1sg.pst</sub>-CL<sub>.3sg.acc</sub> started already ago seven months 'I have already started it seven months ago"
 [Libro di Sidrach, 1383, Florentine]

Interestingly, as shown above, in Old Italian (from ca. 1380 AD), it is attested the simultaneous existence of structures like (13a,b), that would have become *standard* in contemporary Italian and constructions like (13c,d), which resemble, for instance, the ones described above in (6) for contemporary Spanish. Notice also the lack of agreement of the verb *fare* with the plural expression *XXVI giorni*, 'twenty-six days' in (12c).

## 3. A sketch of the analysis

Data-comparison of Romance languages gives solid grounds for a verbal origin of the Italian adposition fa and historical data show that the form [YP [XP]] is attested at least one century and a half before the form [XP], so that it is easily conceivable an elapsed process of clause *contraction*.

I will try to show here that this phenomenon has been driven by syntactic movement. Specifically, I will argue for a movement of the embedded clause to the specifier position of the CP of the matrix clause, which lead to a reanalysis of the subordinate clause as a root.

There are (at least) three different structural possibilities arguable for the bi-clausal pattern of (1a): (a) pseudo-relative clause (see e.g. Rizzi, 2000), of the type "ho visto Maria che..." (I saw Mary that...); (b) restrictive object-relative clause; (c) cleft construction.

The only reasonable possibility seems to be (c), because it is crucially the only option which allows fronting of the embedded CP. Only a cleft - in the aforementioned set of conceivable structures - can do it in Italian. Thus, it is reasonable to consider expressions such as (1a) as involving an *oblique cleft*. See the examples below in (14), in which movement of the embedded constituent is used as a test of

grammaticality. The grammaticality of this operation is crucial, given that the present analysis assumes movement as the trigger of the grammaticalization process.

- (14) a. Ho visto Maria che comprava i giornali
  - (I) have seen Maria that buy. $_{3sg.pst.imprf}$  the newspapers' pseudo-relative  $\Rightarrow$
  - b. \*Che comprava i giornali ho visto M.'I saw Maria that was buying the newspapers.'
  - c. Ho fatto la torta che mi hai chiesto
    - (I) have made the cake that  $CL_{.1sg.dat}$  (you) have asked restrictive relative  $\Rightarrow$
  - d. \*Che mi hai chiesto ho fatto la torta
    'I made the cake that you asked me.'
  - e. E' Gianni che ha sposato Maria

    Is Gianni that have married Maria

    cleft ⇒
  - f. √ Chi ha sposato Maria è Gianni vs. \*che ha sposato Maria è Gianni.

    'It was Gianni, who [that] married Maria.'
  - g. Fanno due anni che Gianni è partito] ⇔ (1a)oblique/temporal cleft ⇒
  - h. √ Che G. è partito fanno due anni'Gianni left two years ago'.

Interestingly, given the *Complementizer* to *Wh-item* conversion-phenomenon<sup>10</sup> in (7f) (which turn out to be a sort of *free relative*), we may hypothesize a movement of the *embedded* clause to the specCP of the *root* (cleft) clause, which roughly give rise to a structure like the one represented in (15). The same process is argued for the temporal oblique cleft of (1a) repeated in (14g) above.

Evidence that this analysis is on the right track comes again from the historical development of Italian. Structures such as (14h)<sup>11</sup> are attested in Old Italian and may be interpreted as an intermediate stage in the process that has lead to the appearance of the standard way to express {DISTANCE-PAST} value in contemporary Italian. See the examples below in (16). Notice here again the partial *overlap* of values (a DISTANCE-PAST} function expressed in English with *ago* and a time-function which, following Haspelmath, 1997, 40 is "*actually a mixture of location, distance and extent adverbial*", standardly expressed in English with *since*) with the mean of the same lexical item: the particle *fa.* Notice also the lack of agreement of *fa* with the temporal NP in (16a).

(16) a. Che 'l male del fianco m' ha assalito già fa due dì that the pain of-the side CL<sub>.1sg.DAT</sub> have attacked already makes two days 'It already makes two days since I had stitch.'

[Sacchetti, Trecentonovelle, second half of XIV Century, Florentine]

b. Che no-llo avie veduto già fa grande tempo that not-CL<sub>3sg.Acc</sub> have. 1sg.Pst seen already makes long time 'It's already a long time since I saw him.'

<sup>&</sup>lt;sup>10</sup> This phenomenon is particularly interesting in light of recent syntactic analyses that assume an identity of (at least some) complementizers and relative/demonstrative/interrogative pronouns in Germanic and Romance languages. See, for relevant discussion, Kayne (2010), Manzini & Savoia (2003), Sportiche (2011) and Roussou (2010).

<sup>&</sup>lt;sup>11</sup> Results from a small survey that I conducted demonstrate that examples such as (14h) seem to be perfectly grammatical for speakers of Central and Southern varieties of Italian, but slightly degraded for speakers of Northern varieties.

## [Morte di Tristano, 1375, Tuscan]

From a theoretical viewpoint, there are (at least) two possible lines of analysis for these *moved-over cleft* items: (a) a cartographic derivation, along the lines of reasoning of e.g. Belletti (2008), which assumes an intra-clausal movement, arguing that the complementizer *che* is not the realization of the Force head in clefts, such as in examples (14e,g), but the realization of Finiteness, the lowest head in the layered CP field; (ii) an inter-clausal movement analysis which seems easily allowed along the lines of reasoning of e.g. Grohmann (2003), who splits clause structure into *Prolific Domains* (so that movement across clauses targets a position within the next higher/leftward prolific domain of the same type).

For the purposes of this work, we can remain agnostic about the exact nature of the underlying fine-grained mechanisms of the movement in (15). The important fact here is that the movement of the constituent embedded under the light (matrix) verb is a grammatical option for temporal clefts.

Notice that it is perfectly reasonable that the verb *fare* may act as a dummy/auxiliary here: see, in fact, the minimal pair of (1a,b) repeated here in (17a,c) and consider that (a) *fare* has actually the same distribution of *essere* (to be), as shown in (17b); (b) *fa* has the same distribution of the particle *or sono/orsono* (ago), which literally means "now-are", as shown in (17d).

(17) a. Fanno due anni che Gianni è partito

b. Sono due anni che Gianni è partito are<sub>3pi.pres</sub> two years that Gianni is gone

c. Gianni è partito due anni fa

d. Gianni è partito due anni or sono/orsonoGianni is gone two years ago

<sup>&</sup>lt;sup>12</sup> Crucially, *or sono/orsono* is also compatible with a singular temporal expression for most Italian speakers (e.g. *un anno or sono* 'a year ago'. Actually, I have found ca. 160.000 occurrences of the phrase 'un anno or sono' in a Google-based search). This suggests that *or sono/orsono*, which is mainly used in formal and literary registers of Italian, is a frozen item (i.e. it does not display agreement).

In Old Italian, we may observe again the same distribution of *fare* and *essere* in expressing {DISTANCE-PAST} (and related) functions, as shown in (18). Notice in particular the intermediate (*fronting*) stage of (18b).

- (18)anni che voi pigliasti sono sette mi a. are seven years that you.<sub>PL</sub> CL<sub>.1SG.ACC</sub> take.2<sub>pr psr</sub> 'It's seven years since you took me' [Libro dei Sette Savi, XIII Century, Tuscan]
  - b. ch' i' ò soferta, çà sono anni duy
    that I have suffered, already are years two
    'It's already ten years since I have suffered'
    [Nicolò de' Rossi, Rime, XIV Century Tuscan-Venetian]
  - c. morì forse ora sono dieci anni died<sub>.3sg.pst</sub> maybe now are ten years 'He died maybe ten tears ago.'

    [Cavalca, Dialogo di San Gregorio, 1342, *Pisan*]

These facts, incidentally, seem to suggest that cleft verbs are dummy verbs and not copula<sup>13</sup>. However, this is an issue that is out of the topic of this work.

# 4. A set of reanalyses

At this point, a set of possible reanalyses is conceivable. First, we may consider (quirky) agreement erosion of the tense/agreement features of the light verb fare (e.g. when the verb appears with plural

<sup>13</sup> The debate between an idea of clefts as {PRONOUN + COPULA + PREDICATE COMPLEMENT + RELATIVE CLAUSE} vs. an idea of clefts as {DUMMY SUBJECT + DUMMY VERB + SUBJECT + PREDICATE} goes back to Jespersen (1927) and beyond.

temporal NPs). There is a rich textual evidence reported in the literature for initial alternations between  $3^{rd}$  singular and  $3^{rd}$  plural forms such as fa/fanno (especially with postposed subjects) in earlier stages of Italian (cf. Salvi, 1991, 231). Also, lack of agreement<sup>14</sup> is still widely attested in contemporary Florentine (cf. Brandi and Giannelli, 2001), as shown in (19).

(19) Fu fatto le chiese

was made.<sub>3sg</sub> the churchs

'The churchs were build'

Similar cases of "fossilization" of 3<sup>rd</sup> singular agreement in Italian that involve *fa* are found in mathematical calculations (e.g. 2+2 fa 4, '2+2 equals four', replacing older, attested 2+2 fanno 4).

Furthermore, Cardinaletti (1998) observed that examples such as (20) are perfectly grammatical, at least for many Central Italian varieties (refer also to Antinucci and Cinque, 1977 for a description of the phenomenon of *marginalization* in Italian).

(20) Questo lo *fa* sempre i bambini (from Cardinaletti, 1998)

This<sub>ACC [they]</sub> it<sub>ACC</sub> does always the children

'Children always do this.'

Assume now that the embedded clause in SpecCP in (15) is reanalyzed as the *root*.

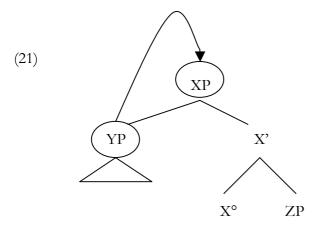
This is perfectly reasonable considering the diachronic data<sup>15</sup> collected, for instance by Heine and

<sup>&</sup>lt;sup>14</sup> The possibility of agreement with a covert expletive (cf. among many others Brandi and Cordin, 1989 and Fuß, 2005) will not be explored here, since it is not relevant to the present discussion.

not be explored i

<sup>&</sup>lt;sup>15</sup> Just to give other two examples, consider (a) the Taiwanese clause-final particle *kong* derived from the verb *kong* 'to say', which instantiate an evidential Mood/C<sup>0</sup>, created when an original bi-clausal structure is simplified as a mono-clausal structure and the predicate of the original matrix clause is re-interpreted as a high functional head in the novel mono-clausal structure (Wu, 2004; see also Chappell 2008 for a comprehensive survey of the grammaticalization of complementizers from *verba dicendi* in Sinitic languages); (b) phenomena of long distance agreement between a matrix light verb and an argument of

Kuteva (2002), but I think that recent developments in formal syntax prompt us with a tool in order to simplify this step. If we agree with a *liberal* version of the nanosyntactic <sup>16</sup> principle of *Phrasal Spell-Out* (see Starke, 2011; see also Williams, 2003 for relevant discussion), which states that you can spell-out an arbitrary stretch of the syntactic structure, as long as it forms a continuous stretch, it is possible to argue for a sort of re-ranking of SpecCP to CP, as shown in (21).



In the structure above, YP is re-ranked (i.e. Spelled-out) as XP and this step isn't expensive (nodes are adjacent, hence forming a continuous stretch of structure). The process outlined in (21), utterly speculative at first sight, can possibly explain interesting empirical phenomena, such as categorial shifts and (intermediate steps of) categorical gradience (Rijemsdik and Corver, 2001; Roberts, 2010). Just to give a possible example, we may consider the fact that, almost universally, natural languages allow the realization of noun phrases without nouns (see Dryer, 2004). For example, a numeral can act as a noun in the Italian example below.

its complement clause, described for instance by Haspelmath, 1999 for Godoberi, a Nakh Dagestanian language, and interpreted as a symptom of an on-going process of grammaticalization of the complement taking light verb. <sup>16</sup> Nanosyntax is a research paradigm on the architecture of grammar under development in CASTL, Tromsø over the last few years. Nanosyntax is partially interrelated with the cartographic paradigm and originated with the works of Michal Starke on allomorphy patterns in English irregular verbs from competition in spelling out syntactic trees (Starke, 2009). For a detailed illustration of the architecture of Nanosyntax you may refer to Caha (2009)'s doctoral dissertation. A key-point of Nanosyntax is Phrasal Spell-Out, which states that Spell-Out applies to syntactic phrases (see also Neeleman and Szendröi, 2007) and that more than mere terminals are stored in the lexicon. This leads to the consequence that there can't be any lexicon before syntax.

(22) a. I fantastici quattro.

'(The) fantastic four'.

b. #I tre fantastici quattro

'(The) three fantastic four'

Notice that (22b) is semantically odd, but syntactically plausible. If we agree with an articulation of the extended noun phrase, as the one proposed, for instance, by Cinque (2005; 2010a), we may interpret (22a) as a NumP to XP (i.e. the functional projection, which hosts the numeral as its Specifier) reranking, which in turn drive to the *reboot* of the extended projection and the consequent reanalysis of the numeral as the noun<sup>17</sup>.

Independently of this tentative explanation, and independently of the formal features to be checked by, when movement is performed as in (15), the matrix light verb become defective, and then, as shown step-by-step below in (23), definitely looses its original status.

a. ⇒movement of the embedded clause:
[EMBEDDED YP che Gianni è partito [ROOT XP fanno due anni [EMBEDDED YP]]]]
b. ⇒ agreement features [f] erosion
[EMBEDDED YP Che Gianni è partito [ROOT XP fa [f]] due anni [EMBEDDED YP]]]]
c. ⇒ reanalysis of the former matrix verb via re-ranking plus ban of over C in a root for [YP = ROOT XP] Che Gianni è partito fa [Verb>particle] due anni]
Lit. 'Gianni left ago two years.'

The stage in (23c), interestingly, seems to exactly match the pattern found in contemporary Spanish, as

<sup>&</sup>lt;sup>17</sup> For a formal definition of a 'extended projection reboot principle', from which reboot is necessary in order to avoid Antisymmetry violations, see Franco (2011). For relevant discussion, see the analysis of Romance VN compounds (such as Spanish *limpiabotas*, 'bootblack' or Italian *portalettere*, 'postman') given by Bok-Bennema and Kampers-Mahne (2006), in which precisely a *modifier to head-noun conversion* phenomenon is assumed.

<sup>&</sup>lt;sup>18</sup> See Emonds (1976) and Heycock (2006), among many others.

shown in (6), contemporary French, as shown in (8), and Old Italian, as shown in (13c,d), where it cooccurred with the form, as in (13a,b), that would have become standard in contemporary Italian.

The relevant question is now: what trigger the movement of the temporal NP across fu (or particles with the same distribution and the same meaning like the aforementioned or sono or addietro, which literally means "to/at-behind") in contemporary standard Italian? A possible proposal could be the one according to which, following Belletti (2004; 2008), VP has a periphery that closely resembles the CP left periphery. If a cleft in Italian normally expresses {+contrastive} identificational focus, it is arguable that the temporal NP (e.g. anno "year"; mese "month"; tempo "time" etc.), moves to a matching FocP immediately above the (former) matrix verb (see also Sleeman, 2010, for relevant discussion concerning infinitival relatives), in order to retain its informational/interpretative features in the unified clause<sup>19</sup>.

The informational status of the moved temporal NP is however fuzzy on conceptual grounds, due to the fact that the verb has become a (deictic) particle. Crucially, in Italian the movement of the temporal NP across fa seems to block any use of the particle apart from a deictic {DISTANCE-PAST} function. On the contrary, in Spanish bace can enter a syntactic derivation in order to express {DISTANCE-POST} temporal extent function<sup>20</sup>, as shown in the examples in (24).

(24)	a.	Maria	vive en	Madrid	desde hace tres	años. Spanish
		Maria	lives in	Madrid	since ago three	years
	b.	Maria	vive a	Madrid	da tre anni	(*fa) Italian
		Maria	lives in	Madrid	from three years	(ago)

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<sup>&</sup>lt;sup>19</sup> Another possibility is to consider as involved here a full QP containing a numeral. Possibly, numerals are inherently contrastive (cf. e.g. Verkuyl, 1981 or Szabolcsi, 2010) and thus require in the case of Italian overt raising to the relevant SpecFocCP, thereby deriving, for example, the order 3 anni fa <del>3 anni</del>.

<sup>&</sup>lt;sup>20</sup> Following Haspelmath (1997), {DISTANCE-POSTERIOR} function can be thought of as a combination of a {POSTERIOR-DURATIVE} function (as in 'since the beginning of the school') and the {DISTANCE-PAST} function. Crucially, as shown in (24), there are languages such as Spanish, where the overt marking is transparently composed of these two features/markers. This phenomenon is attested in other Indo-European languages, for example in Persian, as shown in (i) below:

piš (i) Maria se sâl-e dar Madrid zendegi mi-kon-ad 27 Maria from three year-<sub>EZAFE</sub> ago in Madrid life IMPF-do-3SG 'Maria has lived in Madrid for five years'.

'Maria has lived in Madrid for five years'.

Hence, in Italian, the functional projection to which the temporal NP moves, seems to froze the particle fa, which is inherently reanalyzed with the expression of a sole deictic (time of reference  $\approx$  time of speech) {DISTANCE-PAST} value. Drawing on insights from Cartography (see Cinque and Rizzi, 2010; Svenonius, 2006), we may (synchronically) consider fa as a deictic head (time of reference  $\approx$  time of speech), in the extended projection of a (abstract) head-noun TIME. Notice that many languages (e.g. Persian, Turkish, Lezgian, Armenian, Hungarian, etc.) use the same lexical item to express simple anterior meaning (e.g. before) and deictic {DISTANCE-PAST} meaning (ago), enhancing Cinque (2010b, 3)'s claim in its discussion of spatial prepositions: "phrases composed of spatial prepositions, adverbs, particles, and DPs do not instantiate different structures but merely spell-out different portions of one and the same articulated configuration". Further notice that, interestingly, many languages employ only clausal adverbials in order to express distant past functions (Haspelmath, 1997). An example of these bi-clausal constructions<sup>21</sup>, which match the Italian (1a) type, is given here in (25), for *Babungo*, a West African language.

#### 5. Conclusion

In this work, drawing both on historical and cross-linguistical data, and theoretical assumptions, we have given a sketch of a possible analysis of the process which had led to the formation of the temporal deictic particle fa in Italian. The described process of "grammaticalization triggered by movement" is interesting because, if from one side confirms the prediction of standard theoretical views of

<sup>&</sup>lt;sup>21</sup> Also, in Middle English (cf. Bourdin, 2011) distance past bi-clausal contructions are attested (e.g. It is ago seven yere that ye were made fyrste, from c1489. W. Caxton, "The right plesaunt and goodly historie of the four sonnes of Aymon").

grammaticalization (e.g. Roberts and Rousseau, 2003), so that the basic mechanism of grammaticalization is the gradual loss of movement (i.e. items lose memory of their traces), from the other side challenges these views because the items moved leftward in the process (the embedded clause and the temporal NP) are not targets of grammaticalization (hence, suggesting a "parasitic etiology" of the process that turns the light verb/existential copula into adpositions/particles). An operation of re-ranking of the complement clause as the root, possibly along the lines of a liberal application of Phrasal Spell-Out as illustrated in (21), seems to be the best option to describe the facts. Notice also, that a phrase-to-head 'economy-driven' process along the lines of e.g. Gelderen (2004) seems not applicable here. By the way, economy plays a disheveled role here in this sense: "if you can, do everything you have to do in a (root) clause".

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