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1 **Discourse properties of French clitic left dislocated NPs and their effect on**
2 **prosody**

3
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6
7 ABSTRACT. The present paper investigates the relationship between the
8 variation in prosodic boundary strength at the right edge of a clitic left dislocated
9 (CILDED) NP in French and its discourse properties. A CILDED element in French
10 is known to be followed by a major prosodic break; however, scholars have
11 noticed that the degree of boundary strength can greatly vary. There is an
12 ongoing debate on what factors are responsible for this variation. The goal of our
13 paper is to provide a quantitative as well as a qualitative analysis based on a
14 pragmatic and a prosodic annotation of utterances collected from two
15 spontaneous spoken corpora. In the pragmatic annotation, each CILDED
16 constituent of our dataset is annotated according to its topic continuity, its
17 discourse status, and its contrastive function. In the prosodic annotation, a score
18 indicating the degree of prosodic boundary strength at the right edge of each
19 constituent is assigned in a semi-automatic fashion, on the basis of the
20 computation of 4 acoustic features. The main result of the interaction of the two
21 annotations is that the boundary strength is significantly higher in dislocated
22 elements that are discourse given but are not (not yet, or not anymore) active
23 topics, namely, referents that need to be promoted to topic status. An effect of
24 contrast is also found in a subset of the data.

27 1. INTRODUCTION

28 The present work is a quantitative and qualitative analysis of sentence topics
29 denoted by a clitic left dislocated NP in French. The dataset was obtained by
30 extracting utterances from a corpus of spontaneous speech. The work seeks to
31 contribute to the long-standing debate concerning the causes of the prosodic
32 variation that is observed at the right edge of dislocated phrases in French. Our
33 goal is to see whether certain discourse properties (topic continuity, discourse
34 status, contrast – by itself or in combination) play a role in determining this
35 variation.

36 After describing the syntactic, prosodic, and pragmatic properties of French
37 clitic left dislocated NPs (Section 1.1), we present the state of the art concerning
38 the causes of prosodic variation in this construction, as well as the way we intend
39 to tackle this issue in the present paper (Section 1.2).

40 1.1. CLITIC LEFT DISLOCATED NPs IN FRENCH

41 A clitic left dislocation (from now on, CLLD) is a construction that is typical of
42 spoken French (Bally 1944, Ashby 1988, Lambrecht 1994). This construction is
43 characterized by the presence of a constituent in the left periphery of the clause
44 (Fradin 1990, Delais-Roussarie et al. 2004, De Cat 2007), where by 'left
45 periphery' we mean the position preceding the verb and (if the peripheral element
46 itself is not the subject) the preverbal subject (Rizzi 1997). Such a peripheral
47 constituent is considered as external to the clause and co-refers with a clitic
48 pronoun inside it.¹ Examples of clitic left dislocated constituents of different

¹ The construction is also present in other Romance languages (see Benincà et al. 2001 for Italian, Zubizarreta 1998 for Spanish, Vallduví 1992, Villalba 2000 for Catalan), as well as non-Romance languages such as Greek (Anagnostopoulou 1994, 1997, Le Gac and Yoo 2011),

49 categories are given in boldface in (1) (from Delais-Roussarie et al. 2004): the
50 NP *cet homme* 'this man' in (1a), the AP *heureuse* 'happy' in (1b), the VP *partir*
51 'to leave' in (1c), the CP *qu'il se soit trompé* 'that he made a mistake' in (1d), and
52 the personal pronoun *moi* 'me' in (1e).

53 (1) Delais-Roussarie et al. (2004: 505-6)

54 a. **Cet homme**_j, je ne le_j connais pas.

55 this man I not him know not

56 'This man, I don't know him'

57 b. **Heureuse**_j, elle ne l'_ja jamais été.

58 happy she not it has ever been

59 'Happy, she has never been'

60 c. **Partir**_j, c'_jest mourir un peu.

61 to leave, that is to die a bit

62 'To leave, it is to die a bit'

63 d. **Qu'il se soit trompé**_j, c'_jest évident.

64 that he has made a mistake, that is clear

65 'That he has made a mistake, it is clear'

66 e. **Moi**_j, personne ne veut m'_jaider.

67 me, nobody not wants me to help

68 'Me, nobody wants to help me'

some Balkan languages (Kallulli and Tasmowsky 2008), or Arabic (for Lebanese Arabic, see Aoun and Benmamoun 1998).

69 For the present work, only dislocated NPs are taken into account.² Three
70 examples extracted from our corpus are given below, displaying NPs with
71 different grammatical functions: subject (*le mec* 'the guy' in (2), co-referring with
72 the pronoun *il* 'he'), direct object (*maman* 'mum' in (3a), co-referring with the
73 accusative pronoun *la* 'her'), and oblique object (the locative argument *Belleville*
74 in (3b), co-referring with the locative pronoun *y* 'there').³

75 (2) **Le mec**_j , il_j parle bien français [CID, AP]
76 the guy he speaks well French
77 'The guy, he speaks French very well'

78 (3) a. Puis **maman**_j , je la_j laisserais pas. [CFPP, Mo-f]
79 then mum I her would leave not
80 'Then my mum, I wouldn't leave her for any reason'

81 b. **Belleville**_j , j'_jy vais souvent.
82 Belleville I there go often
83 'Belleville, I often go there'

84 Notice that (3b), if we follow Cinque's (1983) classical distinction (for Italian)
85 between CILD and Hanging Topic Left Dislocation (HTLD), is technically an
86 example of the latter construction. As a matter of fact, according to Cinque, one

² This restriction is motivated by the fact that dislocated elements of other categories are very rare in spoken corpora (Blasco-Dulbeco 1999 , AUTHOR₂ 2012). See Section 2 for further restrictions on our dataset and their motivations.

³ Our corpus comprises two French corpora of spontaneous speech, which will be presented in Section 2: the CID corpus and the CFPP2000 corpus. In the code associated to our examples, the first letters indicate the name of the corpus, while the letters/numbers after the comma identify the speaker.

87 of the properties of HTLD (but not CILD) is that the dislocated element is of NP
88 category only, even when it co-refers with an oblique pronoun. Nevertheless, as
89 noted by various scholars (see e.g. Delais-Roussarie et al. 2004, Berrendonner
90 2015), the distinction between HTLD and CILD is less strong in French than in
91 Italian, and cases like (3b) are very frequent in this language, and much more
92 common than their counterparts with preposition. And importantly, no prosodic
93 differences seem to exist between HTLD and CILD in French (see Doetjes et al.
94 2002, Avanzi 2012). In our data, we therefore included all dislocated NPs,
95 regardless of whether they were actually CILD or HTLD, in Cinque's terms. They
96 could be resumed by clitics marking different functions, as illustrated in (2) and
97 (3) above, and as explained in greater detail in Section 2.

98 Note also that a HTLD, according to Cinque's classification, allows for a full
99 tonic pronoun or an NP epithet to co-refer with the dislocated NP. Such
100 constructions were excluded from our corpus: only left dislocations with *clitic*
101 resumption were considered. That explains our decision to use the term 'CILD'
102 throughout the paper.

103 A final remark must be made on the construction under study, when the
104 dislocated NP is the subject. There is a long-standing debate in the French
105 literature concerning the status of the subject clitic in a CILD. According to
106 several authors, in contemporary spoken French, its status as a pronoun is
107 controversial and the clitic is rather analyzed as a verbal affix (basically, an
108 agreement marker, see Sankoff 1982, Auger 1993, Berrendonner 1993, 2007,
109 2015, Zribi-Hertz 1994, Apothéloz 1997, Fonseca-Greber and Waugh 2003,
110 Culberston 2010, among many others). If the analysis proposed by these
111 scholars is correct, then a construction in which the subject co-refers with a

112 subject clitic cannot be a dislocation: the lexical subject occupies the same
113 position as the subject of a canonical SVO sentence. As for the clitic, its function
114 is not to signal that the lexical subject is dislocated: in fact, its presence is not
115 motivated by syntactic reasons (see Culbertson and Legendre 2008, Culbertson
116 2010 for a semantic explanation of its presence in the clause, or Berrendonner
117 2007, 2015 for an account in terms of free variation).

118 If one follows the so-called 'affix hypothesis' and assumes that subject NPs co-
119 referring with a clitic are *not* dislocated in French, then the traditional pragmatic
120 analysis of that construction is also debatable. Traditionally, the literature
121 considers a dislocation – in different languages – as a topic-marking device
122 (Vallduví 1992, Lambrecht 1994, Anagnostopoulou 1994, Zubizarreta 1998,
123 Benincà et al. 2001, etc.). The dislocated constituent represents the sentence
124 topic, defined as the entity about which the utterance conveys some information
125 or provides a comment. For French, the topic status of the dislocated element
126 has been argued for by Barnes (1985), Ashby (1988), Lambrecht (1994, 2001),
127 among many others. Given the link between dislocation and topic, it is not so
128 straightforward, within the affix hypothesis, that the lexical subject be a topic.
129 This issue is debated in Brunetti et al. (2012), where a pragmatic and prosodic
130 analysis is conducted of both 'clitic-doubled' and 'non clitic-doubled' subjects
131 extracted from a French spoken corpus. What we observe in such studies is that
132 in both types of constructions, preverbal subjects may have a topic function, but
133 with some differences in their discourse and prosodic properties. In other words,
134 the link between dislocation and topic does not seem to be so tight, as far as
135 French preverbal subjects are concerned. In the present work, we therefore

136 assume that, even if the affix hypothesis is correct, it does not prevent a
137 preverbal clitic-doubled subject from being a topic.

138 Of course, we do not deny that there are 'clitic-doubled' subjects that are not
139 topics. Scholars endorsing the affix hypothesis have found several corpus
140 examples of non-topical doubled subjects, such as indefinites or
141 existential/negative quantifiers (see for instance Berrendonner 2007, 2015). No
142 occurrences of this kind of subjects, however, were present in the corpus we
143 examined. Furthermore, Berrendonner (2007) presents corpus examples where
144 is the linguistic context calls into question the dislocated position (and therefore
145 the topical status, in his view) of the doubled subject. One of these contexts is
146 when the utterance containing the double subject is coordinated with an
147 utterance *without* doubling, as in (4).

- 148 (4) a. **Les chiens** ils sont autour Berrendonner (2007:87, [CTFP])
149 the dogs they are around
150 b. et le sanglier est au milieu.
151 and the wild boar is at the middle
152 'Dogs are around and the wild boar is in the middle'

153 Cases like this are present in our corpus. However, as mentioned above, if we
154 assume that the link between dislocation and topic is not tight for French
155 preverbal subjects, this is not necessarily a problem, as both the doubled subject
156 in the first utterance and the simple subject in the second utterance may be
157 topics.

158 Another context where, according to Berrendonner (2007), the doubled subject
159 is not a topic is when it continues an already established topic, as in (5) below.

160 For Berrendonner, the subject does not need to be marked as topic in these
161 cases.

162 (5) a. j'y suis allée une fois Berrendonner (2007:87, [Corpaix])

163 b. mais mon père lui y tenait pas que j'aïlle à ces fêtes

164 'I went there once, but my father did not like me to go to these parties'

165 c. parce que **mon père** il était beaucoup rigide

166 because my father he was very strict

167 'because my father was very strict'

168 Nevertheless, that depends on the definition of topic one adopts.

169 Berrendonner's notion seems to be restricted to those referents that cause a shift
170 in the ongoing discourse. As we will see in Section 4, our notion of topic is larger
171 and includes those cases where the topic continues an already established topic.

172 In sum, in our dataset we neither find subjects whose semantic status could
173 challenge their topic status, nor whose context of occurrence is incompatible with
174 their topic status.

175 In the present paper, we remain neutral with respect to the affix hypothesis,
176 focusing on the actual pragmatic and prosodic properties of subjects and objects
177 co-referring with a clitic.⁴

178 1.2. PROSODIC PROPERTIES OF CILDED NPs AND THEIR INTERACTION WITH
179 PRAGMATIC PROPERTIES

⁴ Of course, if the affix hypothesis is correct, it is possible that doubled subjects and doubled objects display some pragmatic and/or prosodic differences. What our results show, as we will report in the Discussion Section, is indeed a difference in their *discourse* properties. However, their potential prosodic difference could not be tested, as the limited number of objects did not allow us to include them in the database for the statistical analysis. For more details on this, see Section 5 below.

180 Concerning the prosodic properties of French CILDs, it has been claimed for a
181 long time that in French, a CILDed constituent is followed by a major prosodic
182 break (Bally 1944, Rossi 1999, Mertens 2008). The break is usually realized by a
183 major rising pitch movement associated with a significant syllabic lengthening,
184 and possibly followed by a silent pause (see Avanzi 2012 for a review of the
185 studies making this claim).⁵ In more or less recent literature, it has been claimed
186 that this prototypical prosodic realization may vary, and that the NP can be
187 followed by a minor prosodic break (actualized by a high static tone and a shorter
188 syllabic duration), or not followed by a prosodic boundary at all (Fradin 1990,
189 Berrendonner 2007, Culbertson 2010, Avanzi 2012).⁶

190 The reasons that motivate the variation in prosodic strength of the right
191 boundary of a left-dislocated constituent are still mysterious, and various
192 proposals have been put forward in the literature. The weight of the CILDed
193 constituent, when evaluated in terms of number of syllables, has been claimed to
194 play a role. Avanzi (2012) showed that short constituents (2 or 3 syllables long)
195 were better candidates to be associated with a minor prosodic break or no break
196 than longer ones. Nevertheless, the author failed to find differences between the
197 prosodic boundaries of embedded CILDed elements and non-embedded ones,
198 and between the prosodic boundaries of CILDed objects and CILDed subjects.
199 Delais-Roussarie and Feldhausen (2014) tested the effects of sentence modality

⁵ The claim is also made for other languages, e.g. Italian (Gili-Fivela 1999), Catalan (Feldhausen 2010), German (Féry 2011), and Hungarian (Surányi et al. 2012).

⁶ For example, in AUTHOR₂'s (2012) corpus (around 440 CILD constructions extracted from spontaneous speech), 70% of the dislocated elements are not followed by a major prosodic break. In read speech, falling movements have been observed (see Rossi 1999 or Delais-Roussarie et al. 2004).

200 (assertion vs interrogation) and syntactic complexity of the CILDed phrase
201 (branching vs non-branching), but failed to draw clear conclusions, due to the
202 lack of statistical analysis.

203 Pragmatic factors have also been invoked to explain the prosodic variability of
204 the dislocated constituent (see Lacheret-Dujour and François 2004, Grobet and
205 Simon 2009, Likhacheva 2008). In particular, Lacheret-Dujour and François
206 (2004) argue that the discourse activation status of the topic referent denoted by
207 the CILDed NP is inversely proportional to the degree of strength of the prosodic
208 boundary: strongly salient referents are not followed by a strong prosodic break,
209 while non-salient or new referents are more often followed by a strong prosodic
210 break. In previous quantitative work on spontaneous speech, however, this
211 hypothesis could not be confirmed: the degree of strength of the prosodic
212 boundary of the dislocated NP and the degree of salience of its referent were not
213 significantly related (see Avanzi et al. 2012, Brunetti et al. 2012).

214 In the present work, we propose a more exhaustive classification of the topic
215 referents denoted by a dislocated NP with respect to their discourse properties,
216 in order to study the interaction of these properties with the strength of the
217 prosodic boundary at the right edge of the NP. The classification is presented in
218 detail in Section 4, but to anticipate a little, a brief definition of the three
219 parameters in the classification is given here, namely: topic continuity, discourse
220 givenness, and contrast. Concerning the first parameter, topics can be
221 'continuing' or 'shifted' (see Givón 1983, Lambrecht 1994, Butt and King 1997, de
222 Hoop and de Swart 2000, Brunetti 2009). A continuing topic is the topic of the
223 current discourse (see examples (11)-(13) in section 4.1), while a shifted topic is
224 new with respect to the ongoing discourse (see examples (14)-(19) and (21)-(24)

225 in section 4.2) (cf. Givón 1983, Herring 1990, Vallduví 1992, Lambrecht 1994,
 226 Gundel and Fretheim 2004, de Hoop and de Swart 2000, Frascarelli and
 227 Hinterhoelzl 2007). Shifted topics are often confused with or defined in the same
 228 way as *contrastive* topics.⁷ In the present paper, we consider contrast as a
 229 separate property: a topic is contrastive if a set of alternative propositions is
 230 explicitly given or at least easily recoverable in the discourse (Büring 1997,
 231 Vallduví and Vilkuna 1998). We further assume that what is asserted in the
 232 proposition containing the topic is compared or opposed to what is asserted in
 233 the alternatives (cf. the contrastive relations SIMILAR and OPPOSE in Repp 2016).⁸
 234 Shifted topics may or may not have contrast. Cases of non-contrastive as well as
 235 contrastive shifted topics will be given in Section 4.2. The same holds for
 236 continuing topics: they can be contrastive or not, as we will show in Section 4.1.
 237 In other words, the continuing/shifted dimension interacts orthogonally with the
 238 contrastive dimension (cf. Vallduví and Vilkuna 1998, Neeleman and Vermeulen

⁷ As already noted by Barnes (1985) and Ashby (1988). The reason is probably the fact that, when the contrastive topic is in the second utterance of a pair of contrasting utterances, then it obviously also shifts, because the preceding utterance contains a different topic. See for instance (27) (copied here for convenience), where the topic *les autres* is in contrast with *celui-là*, and it also shifts with respect to *celui-là*.

(27) **celui-là**, je l' connais, **les autres**, je les connais pas [CFPP,

MoF]

that-one I it know the others I them know not

'that one I know, the other ones I don't'

⁸ Repp also discusses the relation CORR (for correction). Only two cases of corrective contrast were found in our dataset.

239 2012). The third dimension we consider - discourse givenness – concerns the
240 availability of a topic referent in previous discourse. Since continuing topics
241 cannot be discourse new by definition, this dimension only applies to shifted
242 topics, which can be either new or recoverable from previous discourse. The
243 differences between the latter two topics – which we call *new* and *resumptive*
244 shifted topics – are presented in Sections 4.2.1 and 4.2.2.

245 In previous literature, some scholars associated different prosodic profiles with
246 topics having (some of) the properties mentioned above. Frascarelli and
247 Hinterhoelzl (2007), within the AM framework, proposed that three different tones
248 are systematically associated, in Italian and German, with three topic types:
249 ‘shifting’, ‘contrastive’, and ‘familiar’.⁹ Specific accents, marking a (contrastive)
250 topic shift have been claimed to exist in many languages, starting from
251 Jackendoff’s (1972) analysis of the pragmatic properties of the English ‘B-
252 accent’, which was later developed by Büring (1997, 2003) for both English and
253 German (see also Brunetti et al. 2010 on Italian and Marandin et al. 2002 on
254 French). Marandin et al. (2002) propose the existence of a high tone on the first
255 syllable of the ‘thematic shifter’ (that is, simplifying a bit, the part of the XP that
256 triggers contrast), see *anglais* in (6a), or on the head of the topic phrase (see
257 *chanteurs* in (6b)), and in some cases, on both (see (6c)):

- 258 (6) Que fumaient les chanteurs de rock? Marandin et al. (2002:2)
259 a. Les chanteurs de rock ANglais fumaient des cigarettes.
260 b. Les CHANteurs de rock anglais fumaient des cigarettes.
261 c. Les CHANteurs de rock ANglais fumaient des cigarettes.

⁹ For instance, for Italian, they propose that a complex L*+H tone is systematically associated with shifting topics, a H* tone with contrastive topics, and a L* tone with familiar topics.

262 Doetjes et al. (2002) claim that the discourse referent status can explain the
263 distribution between two types of contours after a dislocated NP. When the
264 discourse referent is active, the contour would be H%, while when it is non-active
265 but accessible, the contour would take the shape of a H(L)%, i.e. of an
266 illocutionary tone corresponding to a confirmation request. Refining Doetjes et
267 al.'s proposal, Delais-Roussarie et al. (2004) suggest that the H(L)% boundary
268 tone is used "whenever an agreement concerning the choice of the topic is not
269 fully established between the speech participants" (Delais-Roussarie et al.
270 2004:519).

271 All the studies mentioned above are mainly based on constructed examples.
272 When examples are extracted from corpus data, either such data come from
273 read texts, or, if they come from a spontaneous speech corpus, they are only
274 subject to a qualitative analysis. No quantitative analysis of *spontaneous* speech
275 corpus data exists, to the best of our knowledge, on the relationship between
276 prosody and discourse functions of the sentence topic denoted by a CILDed NP
277 in French. In the present work, we try to fill this empirical gap.

278 The rest of our paper is organized as follows. In Section 2, a description of our
279 dataset is given. A detailed account of the prosodic and pragmatic annotation is
280 provided in Sections 3 and 4 respectively. The results of the analysis of the
281 interaction between the two annotations are given in Section 5, and a discussion
282 of our results is proposed in Section 6. In Section 7, general conclusions are
283 drawn.

284 2. DATA

285 Naturally occurring utterances were extracted from two corpora of spontaneous
286 spoken French: the Parisian French *Corpus de Français Parlé Parisien des*

287 *années 2000 CFPP2000* (Branca-Rosoff et al. 2009) and the Southern French
288 *Corpus of Interactional Data CID* (Bertrand et al. 2008).

289 The CFPP2000 comprises interviews that are about 1 hour and a half long and
290 involve one or more inhabitants from different districts in Paris, who were asked
291 to talk about their past and present life. We extracted utterances from 7
292 interviews out of the 31 in the corpus, for a total of about 9 hours of speech. The
293 extracted utterances were pronounced by the interviewees. The CID corpus
294 comprises 8 one-hour spontaneous dialogues between two acquaintances
295 (people working or studying at the 'Parole et Langage' laboratory in Aix-en-
296 Provence, France) in an acoustically isolated room. Participants were given a
297 general topic: either to talk about unusual episodes that happened in their life, or
298 about conflicting relationships at their workplace. Utterances were extracted from
299 the entire CID corpus, which is approximately 8 hours long. The total number of
300 speakers in our corpus is 28: 21 women and 7 men. Their age ranges from 15 to
301 70 years old. Speakers uttered a minimum of 1 and a maximum of 29 CILDs.

302 2.1. DATA SELECTION

303 In order to make our data as homogeneous as possible and to limit the
304 complexity of the analysis, we only included a subset of the dislocations, which
305 respected a number of prosodic, syntactic, and semantic criteria.

306 As we said above, only clitic left dislocated NPs were included in our corpus.
307 Also, following Avanzi (2012), we only took those NPs that are resumed by a 3rd
308 person singular or plural clitic pronoun: *il(s)*, *elle(s)* for dislocated subjects, *le(s)*,
309 *la*, *en* for dislocated direct objects, and *lui*, *y*, *en* for dislocated oblique objects,

310 therefore excluding 1st and 2nd person dislocations (*moi, je..., toi, tu..., nous,*
311 *on...*), as well as dislocations resumed by the clitic *ce*.¹⁰

312 For prosodic reasons, we excluded utterances whose dislocated element was
313 separated from the verb by some prosodically relevant linguistic material, such
314 as *dans le temps* in the example below. Note that we did not consider clitics as
315 prosodically relevant material, and that in the utterances with dislocated objects,
316 the subject was always a clitic, so it never intervened between the dislocated
317 object and the verb.

318 (7) **Les chiens** dans le temps on en avait qui... [CFPP, 6X]

319 the dogs in the time we of-them had who

320 'We had dogs in the past, who...'

321 We also discarded those utterances whose dislocated element is not sentence
322 initial, more precisely whose dislocated element is preceded by another topic

¹⁰ Contrary to 3rd person pronouns, preverbal 1st and 2nd person pronouns are obligatorily resumed by a clitic:

(i) a. *Moi/Toi *(je/tu) préfère(s) la voiture rouge.*

me you I/you prefer the car red

b. *Paul/Lui (il) préfère la voiture rouge.*

Paul/he he prefer the car red

Thus, they might not share the same prosodic, syntactic and pragmatic properties as 3rd person NPs. As for resumption with the clitic *ce*, it triggers a generic interpretation of the NP. This means that clitic resumption (and therefore dislocation) in this case is triggered by interpretative needs, and may therefore be totally unrelated to topic-marking. As for the sequence *XP c'est X (c'est 'it is')*, the construction is ambiguous between a CILD and a pseudo-cleft (see Pekarek Doehler and Mueller 2009).

323 phrase or by an adjunct phrase, typically a temporal or spatial sentential adjunct,
324 such as *après le repas* ‘after the meal’ in the example below:

325 (8) *Après le repas les gamins tu les envoies à la sieste* [CID, EB]

326 after the meal the kids you them send to the nap

327 ‘After lunch, the kids are sent to have a nap’

328 This choice was motivated by the fact that the rising contour may be less marked
329 in the case of a sequence of extrasentential elements as in this example.

330 Based on Avanzi (2012), we also excluded all utterances where the dislocated
331 element was followed by a disfluency, marked by a filled pause or a repetition,
332 such as in (9).

333 (9) *Les autres euh ils sont un peu partout en France* [CID, MB]

334 The others ehm they are a little bit everywhere in France

335 ‘The others, they are scattered almost all over France’

336 This choice was motivated by the fact that disfluent elements disturb the prosodic
337 structure, and therefore would have created problems during the calculation of
338 the relative acoustic parameters (see *infra*, Section 3).

339 Also for reasons of prosodic uniformity, we only retained those dislocated NPs
340 that were between 2 and 6 syllables long. On the one hand, monosyllabic NPs
341 are too short for the prosodic boundary to be clearly detected. On the other, it
342 has been shown that dislocated elements comprising more than 6 syllables are
343 rarely phrased in a single prosodic phrase (Martin 1987, Delais-Roussarie 1995),
344 i.e. their behavior differs from the average number of NPs in our data. Their
345 exclusion therefore allowed us to limit the effect of the length parameter in the

346 realization of the final contour.¹¹ In addition to this, we carefully checked all the
347 NPs containing more than one lexical word.¹² Utterances such as (10) were
348 concerned.

349 (10) [CFPP, 70]

350 **les mamans africaines** elles ont beaucoup de mal à se séparer de leur petit
351 the mums African they have a lot of difficulty to part from their little-one
352 'African mothers find it hard to part from their little ones'

353 In this example, *les mamans africaines* comprises two prosodic phrases.¹³

354 Indeed, the NP is made of two lexical words (*mamans* and *africaines*) which are
355 both associated with a prosodic boundary on their rightmost syllable. Dislocated
356 NPs that comprised two prosodic phrases were identified by visual inspection of
357 pitch curves and alignment (for duration). In total, we found 7 cases of NPs
358 phrased into two prosodic phrases, which we excluded.

359 Given that the prosody – as well as the information structure – of interrogative
360 and imperative sentences is presumably different from that of declarative ones
361 (Delais-Roussarie et al. 2015), we excluded such sentences from our corpus.
362 Also, in order to facilitate the pragmatic annotation, we excluded those
363 utterances that were part of quoted speech, as it is not very clear how the topic

¹¹ The number of syllables was obtained by calculating the number of vowels in the NP (including extensions and determiners). The preceding or following material was not taken into account.

¹² According to Nespor and Vogel (1986) and Delais-Roussarie (1995), all lexical items belonging to the paradigm of nouns, verbs, adjectives and adverbs, constitute a lexical word.

¹³ By prosodic phrase, we mean a syntactic phrase that minimally contains a lexical word and all the grammatical words associated with it, which is bounded on its rightmost syllable by a prosodic boundary.

364 element is related to previous (non-quoted) speech (and to the referents
365 contained in it).¹⁴

366 As far as subordinate clauses are concerned, according to some scholars they
367 do not have an independent informational partition into topic and focus.
368 Berrendonner (2007), for instance, in support of the ‘affix hypothesis’ for subject
369 clitics (see Section 1.1), takes the presence of a CILDED subject in a subordinate
370 clause as evidence that the subject is not dislocated (and therefore not a topic).
371 Yet, many different root phenomena, and in particular information-structure
372 related ones, such as dislocations, have been observed in subordinate clauses in
373 different languages (see the seminal paper by Hooper and Thompson 1973, as
374 well as more recent studies such as Haegeman 2004, Sawada and Larson 2004,
375 Bianchi and Frascarelli 2010, Lahousse 2010, Sleeman 2012). Among the 36
376 subordinate clauses in our dataset, the availability of an independent information
377 structure was debatable for only three of them; these utterances were therefore
378 discarded. Seven of the remaining 33 are *que* declarative clauses introduced by
379 speaker-oriented verbs such as ‘think’ or ‘realize’. Following Simons (2007),
380 Bentzen (2009) and others, we assume that such subordinate clauses express
381 the ‘Main Point of the Utterance’ (MPU). In other words, the most relevant
382 information provided by the utterance at that point in the discourse is contained in
383 the subordinate clause. This means that the clause has *an information structure*
384 *of its own*, and as a consequence, that the dislocated NP may legitimately be
385 identified as the sentence topic. Finally, 23 subordinate clauses in our corpus are
386 adjunct (or adverbial) clauses. Following Lahousse 2010, we take adjunct
387 clauses to have an information structure of their own. Adjunct clauses express

¹⁴ Their prosody might presumably be different too (see Bertrand and Espesser 1998).

388 what is generally called "not-at-issue" content (Simons et al. 2010), namely
389 information that does *not* convey the utterance main point, or put it differently,
390 that does not answer the main Question Under Discussion (Roberts 1996,
391 Ginzburg 1996). Not-at-issue content, however, does answer a *secondary*
392 question. The conclusion is therefore the same as the one reached for *que*
393 declarative clauses introduced by speaker oriented verbs: these clauses have an
394 information structure of their own, and therefore their CILDed NP can be
395 considered as a topic. Among the remaining three subordinate clauses of our
396 corpus, two constitute the second part of a cleft introduced by *y a* (*y a des fois*
397 *où...* 'there are times when...') and one constitutes the second part of a pseudo-
398 cleft (*le problem c'est que...* 'the problem is that...'). We assume that both
399 constructions convey a single proposition and have a single information structure
400 (cf. Lambrecht 1994, 2001, Pekarek Doehler and Mueller 2009), so again,
401 nothing prevents the CILDed NP from being considered as a topic. While the
402 information structure of the subordinate clauses of our corpus is comparable to
403 that of root clauses, the prosody might be affected by the embedded context.
404 That is why we eventually excluded them from the dataset used for the statistical
405 analysis (see Section 5).

406 As for the intonational properties of the NPs, the H(L)% pattern observed in
407 Doetjes et al. (2002) was not found in our corpus. In our corpus, all the contours
408 are actualized by a continuative contour (Hcont). Because of this lack of
409 variation, we could not address Doetjes et al.'s (2002) claim concerning the link
410 between a H(L)% contour and the non-active status of the referent. As for
411 Marandin et al.'s (2002) claim about the presence of an internal H* tone when the
412 referent of the dislocated NP is a thematic shifter, the low number of utterances

413 with an internal prominence (only 5) did not allow us to test such a claim either
 414 (see Figure 5 below for an illustration).¹⁵ Note, furthermore, that the context of
 415 the topic in Marandin et al.'s example in (6) is a question-answer pair with a
 416 *partial* answer (which informs about *British* rock stars rather than *all* rock stars).
 417 As shown by Büring (1997), a prosodic marking is obligatory in that context,
 418 because it legitimates the partial answer by signaling the existence of
 419 alternatives. Contrastive topics in our dataset, however, never occur in partial
 420 answers; therefore, we do not expect such a prosodic marking to be present.

421 2.2. CONCLUSIONS ON DATA SELECTION

422 To conclude this section concerning the construction of our dataset, it should be
 423 mentioned that about 40 utterances were eventually excluded because of their
 424 poor sound quality. We therefore ended up with a total of 241 utterances: 204
 425 subjects and 37 objects. They are distributed in the two corpora in the following
 426 fashion:

		CFPP	CID	Total
function	Subject	89	111	204
	Object	22	15	37
embedded	yes	11	22	33
	no	99	109	207
number of syllables	2 syll.	56	72	128
	3 syll.	29	31	60
	4 syll.	13	14	27
	5 syll.	8	11	19
	6 syll.	5	2	7

427 Table 1. Characteristics of the utterances according to their structural properties as a function
 428 of the corpus.
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¹⁵ This little number can be explained by the fact that we retained for the analysis only short NPs, whose prosodic structure is usually very simple.

433 3. PROSODIC ANNOTATION: DEGREE OF BOUNDARY STRENGTH

434 It is commonly assumed that a sentence is composed of different prosodic
435 phrases, which are hierarchically organized (Selkirk 1984, Nespor and Vogel
436 1986). In the most recent AM accounts of French prosodic structure, it is
437 generally agreed that three levels of prosodic units need to be distinguished: the
438 ‘Accentual Phrase’ (AP), the ‘Intermediate phrase’ (ip) and the ‘Intonational
439 Phrase’ (IP) (Michelas and D’Imperio 2010; Delais-Roussarie et al. 2015). The
440 AP boundary is perceptually less salient than the ip boundary, which is also less
441 salient than the IP boundary. Theoretically, all these levels are considered to
442 have a distinct realization, mostly regarding the way their boundaries are realized
443 (D’Imperio et al. 2007; Michelas and D’Imperio 2010; Delais et al. 2015). In
444 practice however, it is very difficult for the analyst to decide at which level of the
445 prosodic hierarchy a boundary is by relying on acoustic cues only, especially in
446 the case of spontaneous speech. Since no automatic system to annotate such
447 categories exists yet, we decided to use the Analor software to categorize the
448 strength of the prosodic break associated with the last syllable of each dislocated
449 NP. Some equivalences between the scores provided by Analor and the units
450 defined in the AM theory have been proposed in the literature (see Avanzi 2012;
451 Delais-Roussarie & Feldhausen 2014), but such correspondences rely on the
452 intuition of the authors, and have not been tested perceptually. In this context, we
453 thought it was wiser not to establish any *a priori* equivalence based on the score
454 and the AM hierarchy, and therefore to consider the scores provided by Analor
455 as continuous variables. We will return to this point in the discussion.

456 Analor is a tool developed by Avanzi et al. (2011) for the automatic
457 identification of prominent syllables in French. It is based on the hypothesis that

458 prosodic prominences and prosodic boundaries are tightly intertwined in this
459 language. Since it takes into account duration phenomena, it is more accurate
460 than an exclusively tonal approach in terms of pitch accent shape, such as the
461 one proposed for instance in Frascarelli and Hinterhoelzl (2007) for Italian and
462 German or in Le Gac and Yoo (2011) for Greek.¹⁶ We therefore used the Anamor
463 system to estimate the degree of strength of the prosodic boundary ending the
464 dislocated constituent.

465 The use of this tool presents numerous advantages:

- 466 • It makes it possible to account for the fact that the perception of prosodic
467 boundaries and their realization in speech is continuous, not categorical (Collier
468 et al. 1993, Cole et al. 2010);
- 469 • It provides an objective annotation, which can be reproduced, and thus
470 constitutes a good alternative to the variation typically occurring among experts
471 when labeling prosodic boundaries manually (Ladd 1996, Lacheret-Dujour et al.
472 2010).
- 473 • It helps in taking into account the fact that the realization of the prosodic
474 boundary in French involves both F0 and duration variations, with *compensation*
475 effects between the two (Delattre 1938, Hart et al. 1990). Indeed, if one of the
476 parameters involved in the perception of a boundary presents a low value and

¹⁶ The decision to rely on prominence score instead of pitch contour shape was also dictated by the fact that in spontaneous speech, the pitch contour associated with the last syllable of the NP is generally rising or flat. In our data, all the pitch contours were flat or rising, depending on their duration (long syllables being more often associated to rising tones than shorter ones, which are preferentially realized by a flat tone, see Section 2.1. above).

477 another one a high value, the software calculates a global medium score, thus
478 reflecting the actual perception of a medially strong prosodic break.

479 The estimation of boundary strength in Analor is performed in three steps.
480 First, all sentences are orthographically transcribed in Praat (Boersma and
481 Weenink 2014). Next, all sentences are processed with the EasyAlign script
482 (Goldman 2011). This tool provides a 3-layer automatic segmentation: phone
483 string, syllable string, and word string. All the alignments are checked and
484 corrected by hand on the basis of the inspection of both wave curves and
485 spectrograms. Third, an estimation of prosodic boundary strength is obtained by
486 calculating four prosodic parameters:

- 487 • syllabic duration;
- 488 • syllabic height average (following House 1990, only the F0 points of the
489 vowels are taken into account);
- 490 • amplitude of the rising tone on vocalic nucleus;
- 491 • presence of a silent pause not connected with a hesitation or a false-start.

492 In detail, the algorithm calculates for the current syllable S_0 (see Figure 1): its
493 relative average height and duration compared with the f_0 and averages of the
494 three preceding syllables (S_{-3} ; S_{-2} and S_{-1}) and the three following ones (S_{+1} ; S_{+2}
495 and S_{+3}); the presence of a rise if there is a positive movement of f_0 on the
496 syllabic nucleus (in lighter color in Figure 1); and the presence of an adjacent
497 silent pause. F_0 measures are given in semi-tones, while duration measures are
498 calculated without any unit. Let us note that in its current version, the Analor
499 algorithm does not deal with the intensity parameter. The argument put forward
500 by one of the designers of the software (Avanzi 2012) is that intensity in French
501 is not an acoustic parameter involved in accentuation and phrasing (Delattre

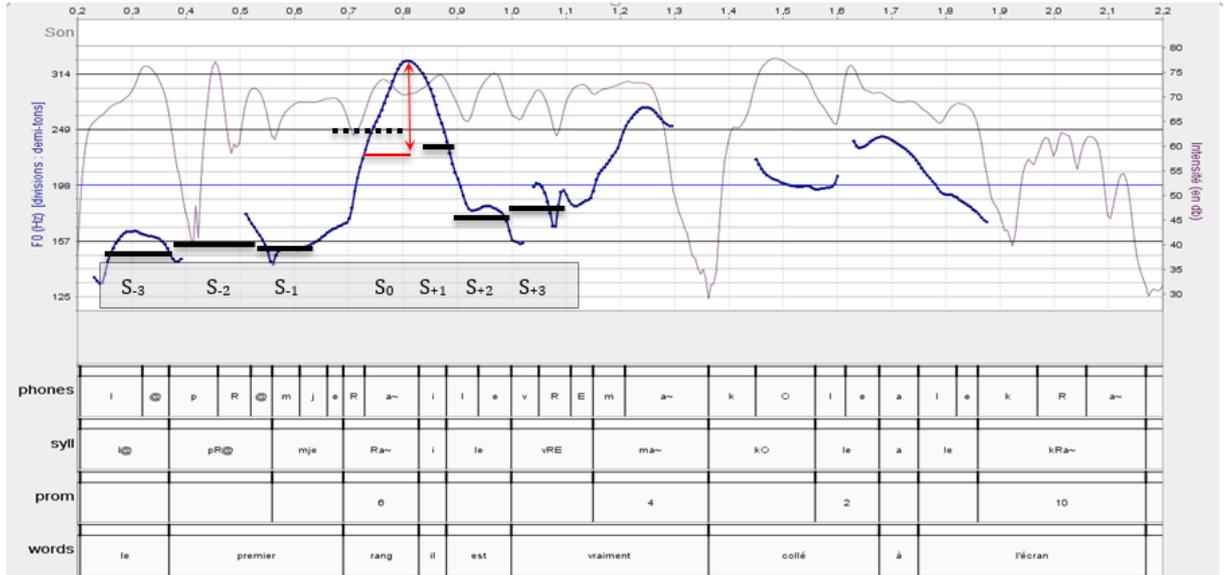
502 1938 : 142; Astésano 1999), and that this parameter is instead often correlated
503 with F0 modulations (Lacheret-Dujour and Beaugendre 1999).¹⁷

504 For each of these three acoustic parameters (relative duration, relative height
505 and rising movement) a score between 0 and 10 is then attributed. This score is
506 determined according to the difference with an optimized threshold fixed during
507 the corpus-based learning procedure (see Avanzi et al. 2011 and Avanzi 2012 for
508 more details). The results of the calculation are provided in a dedicated tier: a
509 score between 0/10 and 10/10 (from the least prominent to the most prominent)
510 indicates the degree of strength of the break (rounded to the nearest unit). They
511 are then retrieved in a spreadsheet for further statistical analysis.

512 In the example in Figure 1, the rightmost syllable of the CILDed constituent /e
513 *premier rang* is associated to a prosodic boundary of 6/10. This score results
514 from a rising movement on the nucleus of 6.3 semi-tones, a difference in height
515 of 2.2 semi-tones with respect to the six surrounding syllables, and a lengthening
516 of approximately 42% regarding the average duration of the three preceding and
517 three following syllables.

¹⁷ Another reason for which we did not take intensity into account is that the conditions within which the recordings were made were not controlled. Intensity is very sensitive to the recording conditions.

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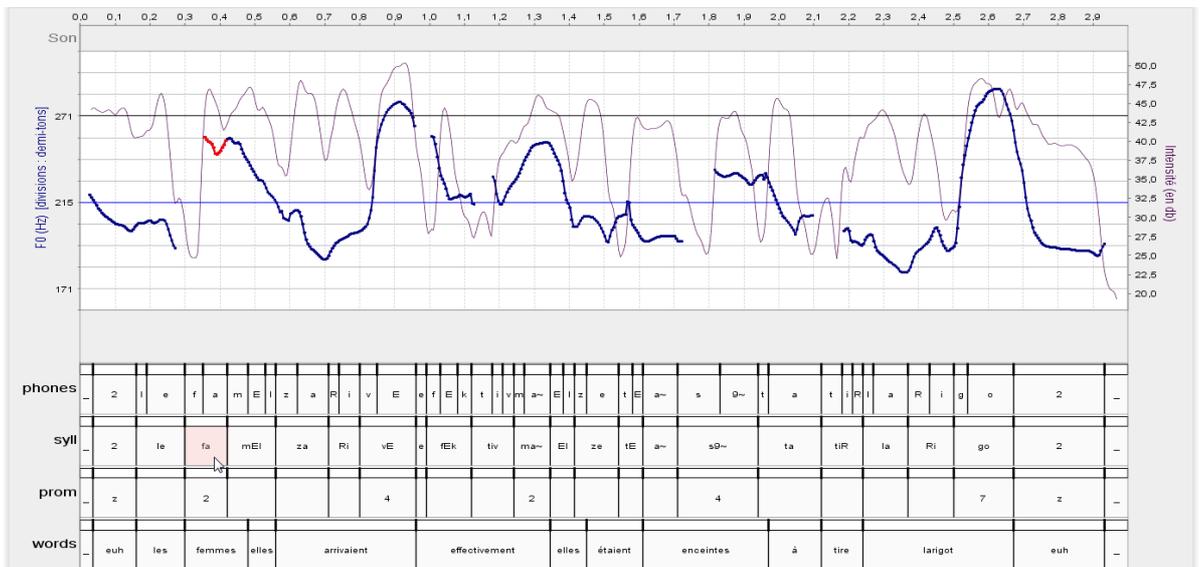


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Figure 1. Analog screenshot of the utterance: *le premier rang il est vraiment collé à l'écran* 'the front row is really stuck to the screen' [CID]. In the abscissa, temporal values are given in milliseconds; in the ordinate, the values of F0 in a logarithmic scale can be seen on the left, and the intensity values in Db can be seen on the right. Duration labels are given in milliseconds. Annotation tiers are, from top to bottom: phones, syllables (both in SAMPA) and graphemic words.

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In the example in Figure 2, a prosodic boundary is detected after the last syllable of the dislocated NP *les femmes*. As can be seen, the F0 points on the nucleus of the syllable are just a little bit higher than the F0 points of the surrounding syllables (3.2 semi-tones), but the syllable is not really lengthened when compared with the directly preceding and following syllables.



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Figure 2. Analog screenshot of the utterance: *euh les femmes elles arrivaient effectivement*

536 *elles étaient enceintes à tire larigot* 'euh women used to come, in fact they were constantly
537 pregnant'" [CFPP].

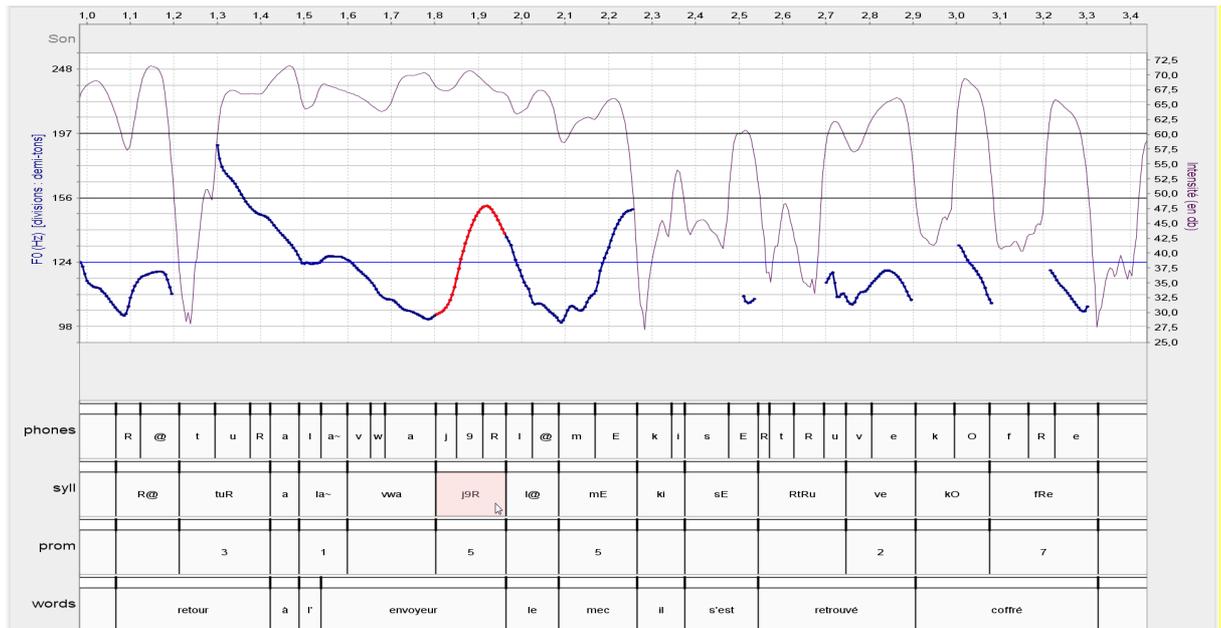
538

539 It is important to note that the 6-syllable window is a maximum context for
540 calculation; in fact, the context used for the calculation of the relative parameters
541 is often smaller. The context for calculation of the relativized acoustic
542 measurements can be reduced in two specific situations. First, when one of the
543 three adjacent syllables preceding the target syllable is associated with a
544 disfluency, as is the case in the example in Figure 2. Due to the fact that the
545 second syllable preceding the target syllable (*euh*) is disfluent, the relativization
546 is made on a restrained context (one syllable before, three after)¹⁸.

547 The second case involves utterances within which the CLIDed element is
548 preceded by some material that contains a major prosodic break on its rightmost
549 syllable (i.e. a word or group of words whose last syllable is associated with a
550 major pitch movement). For example, in Figure 3, the material preceding the NP
551 (*retour à l'envoyeur*) is associated with a major prosodic boundary on its
552 rightmost syllables (the final syllable of the word *envoyeur* is associated with a
553 pitch rise of 4.3 semi-tones). In this context, in order not to weaken the estimation
554 of the score of the target syllable (see Avanzi 2012), it was decided that this
555 syllable would not be taken into account in the calculation of the prosodic
556 parameters. In other words, in this example, the calculation is made only on the
557 syllable preceding the target syllable and the three following it¹⁹.

¹⁸ When the target syllable was directly followed by a disfluency, the utterance was excluded from the analysis.

¹⁹ For each example, the identification of a major prosodic break in the vicinity of CLID was performed manually, on the basis of the perception of the second author, and the examination of

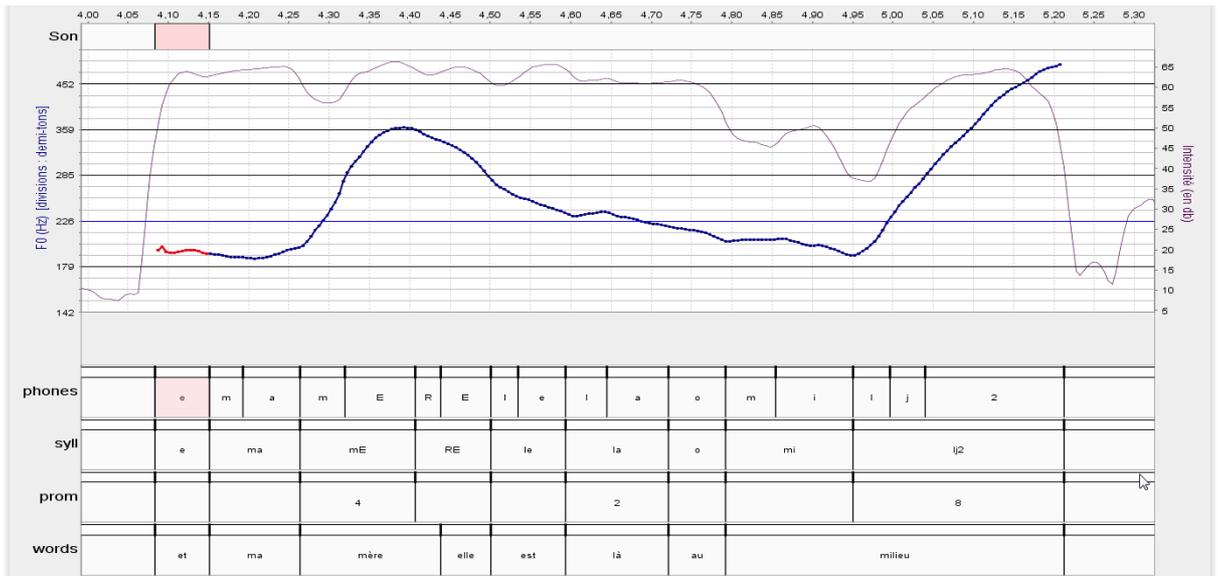


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Figure 3. Analo screenshot of the utterance: *retour à l'envoyeur le mec il s'est retrouvé coffré* 'return to sender: the guy found himself locked away' [CID].

In contrast, when the last syllable of the words or group of words that preceded the dislocated element did not stand out from its environment, it was then considered as part of the context, and therefore used for the calculation of the relativized acoustic parameters. The example presented in Figure 4 exemplifies this:

pitch tracks. Following Mertens (2008), we considered that a melodic movement was major if its amplitude was higher than 2dt.



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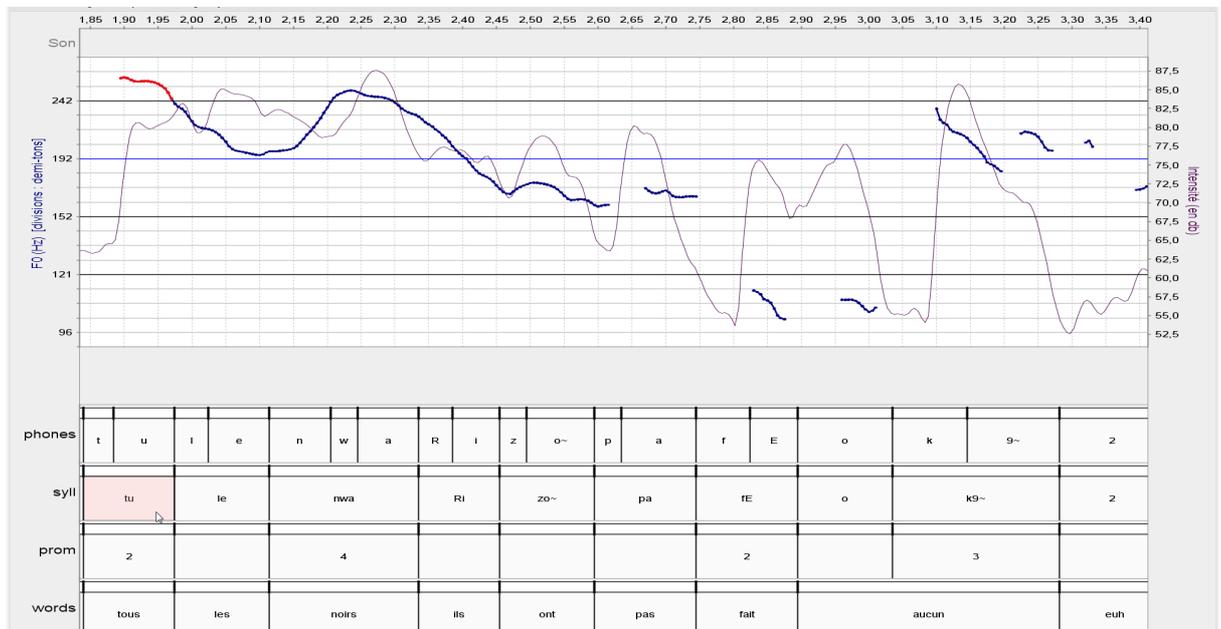
569 Figure 4. Anamor screenshot of the utterance: *et ma mère elle est là au milieu* "and my mother,
570 she is there in the middle" [CFPP].

571

572 In this example, as the coordinator *et* ('and') was not coded as prominent, it was
573 considered as a valid context for prosodic relativization.

574 Finally, it should be noted that some examples in the corpus presented

575 internal prominence within their NP, such as the word *tous* in Figure 5:



576

577 Figure 5. Anamor screenshot of the utterance: *Tous les Noirs ils ont pas fait aucun euh aucune*
578 *étude* 'Blacks didn't get any ehm any education' [CFPP].

579

580 Even if these cases are pretty rare in our corpus (only 5 utterances were found to
581 present a potential internal prominent syllable), we decided to apply the same
582 procedure as the one used for the disfluencies and major breaks discussed
583 above, and for the same reasons explained above. In other words, for these
584 examples, the syllable associated with an initial rise was excluded from the
585 context of relativization.

586 4. PRAGMATIC ANNOTATION

587 For the pragmatic annotation,²⁰ CILDed NPs were first divided into continuing
588 topics and shifted topics, as mentioned above. Two further properties were then
589 considered: discourse givenness and contrast. A continuing topic can only be
590 discourse given, so its sole margin of variation concerns the presence of
591 contrasting alternatives. A shifted topic, on the contrary, can be discourse given
592 or discourse new, and it can be contrastive or not. Three different possibilities
593 then result from the combination of topic continuity with discourse givenness: a
594 continuing topic, a shifted topic that is new in the discourse, and a shifted topic
595 that is given in the discourse, which we call 'resumptive'. The latter has either
596 been the topic of a preceding segment of discourse, but not the current one, or it
597 is present in the preceding discourse, but not as topic (for more details on this,
598 see Section 4.2 below). All three topics can additionally evoke contrasting
599 alternatives. Table 2 summarizes these possibilities.

600

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602

²⁰ The pragmatic annotation was done by the first author and by another trained annotator. The two annotations were then compared and the ambiguous or divergent cases discussed.

<i>Topic</i>	<i>Properties</i>		
	topic continuity	givenness	contrast
Continuing	YES	YES	YES/NO
Shifted (new)	NO	NO	YES/NO
Shifted (resumptive)	NO	YES	YES/NO

603 Table 2. Characteristics of continuing and shifted topics with respect to discourse givenness
604 and the presence of contrast.

605

606 In the following sub-sections, we are going to detail the characteristics of each
607 topic type.

608 4.1. *Continuing topic*

609 An example of continuing topic is the NP *le mec* 'the man' in (11b). Speaker AP
610 is talking about a person he met at his own place during a party. AP found this
611 person weird, but then he admits that he had misjudged him, realizing that he is
612 just a withdrawn person. The referent of *le mec* 'the guy' in (11b) is discourse
613 given (its antecedents are underlined in (11a)) and it is the topic of the
614 immediately preceding discourse: the speaker has been talking about this man
615 just before uttering (11b). The dislocated NP therefore represents a continuing
616 topic.²¹

617 (11) [CID, AP]

618 a. Maintenant je le connais hum assez: je dis pas que le courant passe
619 super bien tu vois, mais parce que c'est un peu un mec un peu renfermé; mais
620 en fait euh je me suis planté dans mon jugement quoi; en fait le type il était mal
621 euh il était chez moi, il m'avait jamais vu, euh il savait pas trop quoi me dire tu
622 vois enfin bon

²¹ Disfluences of spontaneous speech such as repetitions, false-starts, lengthenings, fillers, etc.
have been discarded in the examples.

623 'Now I know him: I don't say that we get along extremely well, you know,
624 but it's just because he is a rather withdrawn person; but before, I was mistaken
625 in my judgment; in fact, the guy was not at ease, he was at my place, he had
626 never seen me before... he didn't know what to say, you know, so...'

627 b. et bon tu vois **le mec**, il s'est renfermé sur lui-même
628 and so you see the man he has withdrawn on himself
629 'and so, you see, the guy withdrew into himself'

630 The first thing we noticed in our corpus is that continuing topics are few in
631 number (11 in total). This is not unexpected. A continuing topic maintains topic
632 continuity, so it corresponds to what speakers most expect to be the topic of the
633 upcoming utterance. It is therefore natural that such topics be generally realized
634 in a pronominal form, instead of a full (dislocated) NP. A pronominal realization of
635 a continuing topic is indeed frequently observed in the literature (see Reinhart
636 1981, Lambrecht 1988, Butt and King 1997, de Hoop and de Swart 2000,
637 Brunetti 2009, among many others). The puzzling fact may rather be the
638 opposite, namely that some continuing topics are realized as dislocated full NPs.
639 For our data, various explanations are possible. In (12), the reason for uttering
640 *Rémi* in (12f), which is the topic of the preceding utterances (where, as expected,
641 it is realized as a clitic) can be EB's intention to emphasize, or express his
642 agreement for, SR's comment in (12e).²²

643 (12) a. SR: avec Rémi on s'engueule putain [CID, EB-SR]
644 'Rémi and I, we argue with each other all the time, fuck'

²² In her corpus study on French left dislocations, Barnes (1985:67) had already mentioned emphasis as a possible explanation for the presence of a left dislocated continuing topic (in her terms, a referent that is given and is already the topic of the discourse).

645 b. EB : ouais avec Rémi vous vous engueulez ouais

646 'Yeah, Rémi and you, you argue all the time, that's true'

647 c. SR : on s'engueule; mais c'est parce que il dit n'importe quoi

648 'We argue; but it's because he talks nonsense!'

649 d. EB : ouais c'est vrai ; c'est marrant il dit la même chose de toi; ah

650 tu vois, des fois il fait euh : "C'est quand même moi qui suis informaticien quoi

651 alors bon je sais de quoi je parle"

652 'Yes, it's true; funny: he says the same thing about you! You know,

653 sometimes he says: "/ am the computer engineer! So I know what I'm talking

654 about'

655 e. SR : il est pas diplomate

656 'He is not diplomatic'

657 f. EB : et ouais ouais non et **Rémi**, il est pas diplomate

658 And yeah, yeah, no, and Rémi he_{ci} is not diplomatic

659 'Right, no, Rémi is not diplomatic at all'

660 g. SR: il est pas diplomate euh

661 'he is not diplomatic'

662 h. EB : ouais il sait pas dire les choses

663 'yeah, he doesn't know how to say things'

664 Four other continuing topics in our corpus were pronounced in the AP-LJ (CID)

665 dialogue (three by the same speaker, AP). For these cases, we note that the NP

666 is the semantically poor expression *le mec* 'the guy', which is close to a pronoun.

667 We also note that the two speakers are close friends and use a very informal and

668 colloquial register. It may be the case that the use of *le mec* instead of a clitic is

669 just a way to enhance the expressivity of the narration.

670 The other occurrences of continuing topics of our corpus (five out of eleven)
671 involve contrast. Following the proposal made by Brunetti (2009) for Italian,
672 contrast might indeed explain the presence of a dislocated full NP to express a
673 continuing topic in these utterances.²³ As we said before, we consider sentence
674 topics as contrastive whenever the proposition denoted by the utterance
675 containing the topic is compared or opposed to one or more alternative
676 propositions explicitly given in the discourse or implicitly recoverable from it. An
677 example of contrastive continuing topic is given in (13). Spk2 is a janitor in a
678 primary school and in a junior high school. Spk1 asks her whether kids ever go
679 visit her after class. Spk2 answers that young kids sometimes do, but junior high
680 school ones don't, as they are very proud.

681 (13) [CFPP, 1260]

²³ AUTHOR_i (2009) argues for Italian that *whenever* a continuing topic is realized as a full NP, the topic evokes an alternative set. In (i), the dislocated Prepositional Phrase *A Dante* 'to Dante' in the answer - which is a continuing topic, because the preceding question is already about *Dante* - triggers the implicature that an alternative set exists, namely that there are other relevant people in the context that may or may not receive a present.

(i) A: A Dante, che cosa (gli) regalerai?

AUTHOR_i (2009)

'What will you give to Dante (as a present)?'

B: **A Dante**, (gli) regalerò un libro.

to Dante to-him I-will-give a book

'To Dante I'll give a book'

While continuing topics in the present study are not always contrastive, it is interesting to observe that contrast appears in almost *half* of the occurrences, a proportion that is much higher than that found in other topic types (see Table 3 in Section 5).

682 a. spk1 : après ils reviennent vous voir quelque fois les gens, ils vous
683 saluent?
684 'and later, do people come visit you sometimes? Do they say hi to you?'
685 spk2 : oui y a des enfants mais pas trop
686 'yes, some kids do, but not many'
687 spk1: les collégiens?
688 'junior high school kids?'
689 spk2 : ah non les collégiens ah non on vient pas voir la gardienne de
690 l'école
691 'oh no, not junior-high school kids; they don't go to visit the school janitor!'
692 spk1 : non?
693 'they don't?'
694 b. spk2 : non non **les collégiens**, ils sont assez fiers d'
695 eux-mêmes
696 no no the junior high school students they are rather proud of
697 themselves
698 'No, no, junior high school students are too proud'
699 The dislocated NP *les collégiens* 'junior high school students' in (13b)
700 corresponds to the topic of the current discourse: hence, it is a continuing topic.
701 At the same time, the dislocation evokes a set of (two) opposing alternatives,
702 namely the assertion that junior high school students are proud (and therefore do
703 not go and visit the janitor) and the implicit assertion that primary school students
704 are *not* so proud (and therefore do sometimes go and visit the janitor, as
705 mentioned in (13a)).
706 4.2. *Shifted topic*

707 Left dislocation is typically associated in the literature with topic shift (see
708 Vallduvi 1992, Lambrecht 1994, de Hoop and de Swart 2000, Benincà et al.
709 2001). De Hoop and de Swart (2000), for instance, argue for English that:

710 In producing a left-dislocated construction, the speaker introduces or re-
711 introduces a discourse referent, which is made the center of attention. Such
712 introducing topics combine new information with the definition of an NP as the
713 topic of the sentence. They are called shifted topics (de Hoop and de Swart
714 2000:111).

715
716 Analogously, Lambrecht (1994) considers dislocation as a device to “establish
717 a new topic” (Lambrecht 1994:183), where ‘new’ “does not designate ‘a topic
718 expression with a new referent’ but rather the ‘new coding of an active or
719 accessible referent as a topic expression’ (Lambrecht 1994:353)”. A confirmation
720 of this link between dislocation and topic shift comes from our data, where shifted
721 topics cover almost all of the dataset (see Table 3 in Section 5 below).

722 Two possible shifted topics are identified, depending on their status as
723 discourse referents (the variable ‘discourse givenness’ in Table 2): *new* shifted
724 topics and *resumptive* shifted topics. They are presented respectively in Sections
725 4.2.1 and 4.2.2.

726 4.2.1. *New shifted topics*

727 New shifted topics are not, of course, completely new discourse referents, as
728 topics cannot by definition be completely new (cf. Barnes 1985, Ashby 1988,
729 Lambrecht 1994:353, fn 40).²⁴ A topic referent will always be retrievable in one
730 way or another, either from shared knowledge or by inference from the linguistic
731 context. In particular, the topic referent may present various kinds of lexical or
732 semantic relationship with a referent in the preceding context, such as kinship,
733 set-membership or other. Example (14) illustrates an instance of kinship

²⁴ They cannot be ‘brand new’ in Prince’s (1992) sense.

734 relationship (father-daughter) between the topic referent and a referent in the
735 preceding discourse.²⁵ Spk4 is asked whether, among her former schoolmates,
736 she is still in contact with anyone who is not Caucasian (the interviewer has in
737 mind somebody who belongs to a family of immigrant origins). Spk4 recalls that
738 she is still in contact with Laurence, who is of mixed-race, but she specifies that
739 Laurence's father (denoted by the CILDed NP in (14b)) comes from the French
740 Overseas Departments and Territories (therefore, implicitly, Laurence's family is
741 not of immigrant origins).

742 (14) [CFPP, 25-60]

743 a. spk4: c'est vrai que finalement mes copines que j'ai revues,
744 y en avait une qu'était... (...) elle était métisse mais (...) y a Laurence
745 qui était métisse mais

746 'it's true that among those schoolmates I've kept contact with, there
747 was one who was (...) she was of mixed-race but (...) there's Laurence who was
748 of mixed-race but...'

749 spk3 (spk4's mother) : elle était quand même bien métisse attends
750 'hang on, she was of mixed-race alright!'

751 b. spk4: oui puis attends surtout **son père** il venait des DOM,
752 c'est

753 yes but wait specifically her father he came from the ODT
754 that's autre chose
755 another thing

756 'Yes, but wait, her father was from the Overseas Departments

²⁵ In this and in the following examples of this section, we underline the parts of the previous context from which the topic referent can be inferred.

757 and Territories, that's different'

758 The following example illustrates a case of shifted topic whose referent is in a
759 set-member relationship with an antecedent. The speaker is talking about her
760 negative experience with the metro system in Paris. Then she focuses on a
761 specific metro line, line 7.²⁶

762 (15) [CFPP, 25]

763 a. les rares fois où j' devais prendre le métro pour X ou X raisons là c'était
764 très très chiant hein

765 'The few times I had to take the metro for this or that reason, it was a real
766 pain in the neck'

767 b. **la ligne sept** elle est atroce

768 the line seven it is horrible

769 'Line 7 is horrible'

770 Finally, example (16) is a case of a cause-consequence relationship,
771 specifically between a rain event and the presence of rain water (*la flotte*).
772 Speaker MB complains about her neighbor's behavior and then she talks about a

²⁶ Lambrecht 1987 and Barnes 1985 (following a distinction originally formulated by Hopper and Thompson 1980), distinguish between backgrounded and foregrounded utterances, namely utterances with a more parenthetical function, which assist or comment on the speaker's goal, and utterances which supply the main points of the discourse and whose topic is therefore generally maintained in the following stretch of discourse. In (15), (15b) has a backgrounded function. This is confirmed by the fact that the topic (line 7) is not maintained in the following discourse. In our study, any (sentence) topic that changes with respect to the topic of the preceding utterance is shifted, no matter whether it has a parenthetical or a main function in the discourse. It may be interesting to note, however, that most of the *new* shifted topics of our corpus have a backgrounded function.

773 particular episode, in which her neighbor, who lives in the apartment above hers,
774 swept his balcony after it rained, so that the rain water fell onto her own balcony.

775 (16) [CID, MB-AC]

776 a. MB : ben nous le voisin en fait il nous emmerde avec le linge; il met
777 ses draps sur son étendage tu sais (...)

778 'Well, our neighbor annoys us with his laundry; he puts his sheets on
779 the drying rack you know (...)'

780 b. AC : faut lui piquer du linge comme ça après il te le fait plus

781 'You should pinch his laundry, so he won't do it anymore'

782 c. MB : mais non mais il s'en fout

783 'but no, he doesn't care'

784 d. et ce matin comme il a plu cette nuit, il balaye le

785 balcon

786 and this morning since it has rained this night he sweeps the

787 balcony

788 'And this morning, since it rained last night, he swept the balcony'

789 e. et tu sais **la flotte**, elle tombe dessous

790 and you know the rain-water it falls down

791 'and you know, obviously the rain-water fell down'

792 The topic antecedent may also just have different referential properties to the
793 topic. In (17), the speaker is describing the inflexible attitude of school staff
794 supervising kids during meals in the school canteen. The antecedent *les gosses*
795 'the kids' in (17a) is generic, while the dislocated NP *un gamin* 'a child' in (17c)
796 (which basically reformulates (17b)) refers to an instantiation of the generic
797 referent.

798 (17) a. y en a une qu'a un sifflet et qui siffle les gosses ; [CID, IM]

799 'One of them has a whistle and whistles to the kids'

800 b. dès qu'ils parlent [...] elles les mettent au coin tout le repas ;

801 'whenever they speak [...] they make them stand in the corner during

802 the whole meal'

803 c. parfois **un gamin**, il est puni au coin

804 sometimes a kid he is punished to-the corner

805 'Sometimes, a kid is sent to the corner'

806 As we will see in Table 3 below, most of the topics in our dataset are shifted.

807 Among shifted topics, most of them are new (134) and among new shifted topics,

808 only a few (22) are contrastive. A typical example is (18) below. The dislocated

809 NP *ma mère* 'my mother' is a new shifted topic, as it has not been mentioned

810 before and is inferable from the context by means of the NP *vos parents* 'your

811 parents'. The NP is also contrastive, because utterances (18b) and (18c) denote

812 two alternative propositions: the former – which contains the dislocated NP –

813 talks about the speaker's mother's profession; the latter – a canonical subject-

814 predicate construction, talks about the speaker's father's profession.²⁷

815 (18) a. Spk1: C'est c'que faisaient vos parents ? [CFPP, MoH]

816 'Was it what your parents did?'

817 b. Spk2: Oui **ma mère**, elle travaillait dans l' vingtième rue d'la Réunion,

818 yes my mother she worked in the twentieth street of the

²⁷ Note that (18) is different from (15). In the latter example, the topic referent (the metro line 7) is a member of a set (the set of all Paris metro lines), but the topic is not contrastive, because there is neither explicit nor implicit comparison/opposition in the discourse between the proposition denoted by (15b) and other propositions predicating about other metro lines.

819 Reunion

820 'Yes: my mother worked in the 20th district, in Reunion street

821 c. [...] et mon père était artisan

822 ' [...] and my father was a craftsman'

823 Another example of contrast is (19), where the speaker – a schoolteacher –

824 compares her age and that of her pupils when she had her first teaching

825 experience.

826 (19) a. Je suis partie directement en fin d'études [CFPP, 6X]

827 'I left [=started teaching] right after my studies'

828 b. j'avais dix-huit ans

829 'I was eighteen'

830 c. **les gosses**, elles en avaient quatorze

831 the kids they of-them had fourteen

832 'and the kids were fourteen'

833 The current topic is the speaker (see (19a,b)), but a topic shift occurs in (19c),

834 where *les gosses* 'the kids' – whose reference is inferable from previous

835 discourse and denotes the pupils of the speaker's first teaching experience –

836 becomes the sentence topic. The newly shifted topic is also contrastive, because

837 utterances (19b) and (19c) form a set of (two) alternative propositions: what is

838 asserted about the speaker's age is compared with what is asserted about the

839 pupils' age.

840 4.2.2. *Resumptive shifted topic*

841 Other occurrences of topic shift involve a *given* referent: either its antecedent is

842 the topic of the preceding discourse, but not of the immediately preceding one, or

843 it is the focus or part of the focus of the preceding utterance. There are 96
844 resumptive shifted topics in our dataset, among which 19 are contrastive.

845 In the first case of topic resumption, the referent is promoted to topic status
846 after topic continuity has been interrupted by a topic shift. Left dislocation seems
847 to be a typical device to express this kind of function in various languages (Givón
848 1983, Lambrecht 1994). Lambrecht (1994) calls a dislocation a 'topic promoting
849 construction' (Lambrecht 1994:177) and illustrates this property with the English
850 example below (taken from Givón 1976). The referent of *a wizard* is introduced
851 for the first time in the first sentence and it is the topic of the subsequent
852 sentences ((20b) and (20c)). Then topic continuity is interrupted by the
853 introduction of other topics (see (20d-f)). The wizard is eventually promoted again
854 to topic status with the dislocation in (20g).

855 (20) a. Once there was a wizard. Lambrecht (1994 :177)

856 b. He was very wise, rich,

857 c. and was married to a beautiful witch.

858 d. They had two sons. The first was tall and brooding, he spent his days
859 in the forest hunting snails,

860 e. and his mother was afraid of him.

861 f. The second was short and vivacious, a bit crazy but always game.

862 g. Now **the wizard**, he lived in Africa.

863 An example from our corpus is given in (21). The speaker is telling a story
864 involving a conflict between her cat and her neighbor: her neighbor scared her
865 cat away from his door by hitting the cat with a broom. The speaker then keeps
866 talking about her neighbor's bad habits, and eventually resumes the story about
867 the cat in (21b). About 13 exchanges separate the last mention of the cat in (21a)

868 and its 'resumption' as topic in (21b).²⁸

869 (21) [CID, MB]

870 a. Donc je lui ai dit: "Ben très bien tu lui as fait peur un bon coup; le chat
871 il est pas idiot il remontera plus de chez toi de sitôt tu vois euh", mais bon... Il
872 laisse sa porte ouverte... qu'est-ce qu'il s'en fout, ah ouais, et non mais parce
873 que lui il habite au premier mais tout l'escalier il a décrété que c'était à lui (...)

874 'So I told him [*the neighbor, ndr*]: "Very well, you really scared him [=the
875 cat] quite a lot: the cat is not stupid, he won't climb up again to your place so
876 soon, you know", but well... He leaves his door open...He really doesn't care! Oh
877 yeah, because he lives on the first floor, but he has decided that the whole
878 staircase belongs to him (...)'

879 b. et donc **le chat**, il était dans l'escalier, il a dû le choper
880 and so the cat he was on the stairs he has must him to catch
881 'and so the cat was on the stairs, he must have caught him'

882 An example where the resumptive shifted topic is also contrastive is given in
883 (22) below. Spk2 is talking about different shops that there used to be in her
884 neighborhood when she was a child. In particular, she remembers a married

²⁸ For cases like (21), it is clear that the speaker is resuming a topic that was abandoned and then recovered *within the same discourse segment*. When a speaker talks about a referent that was already mentioned, but in a completely different point of the text, we did not consider it as a case of topic resumption. For instance, in one interview of the CFPP corpus, a speaker talks several times about her father, remembering different episodes of her family life. Such different episodes are considered as separate discourse segments; therefore, the father is not counted as a resumptive topic each time that it is mentioned, but only when it is resumed *within* the same discourse segment.

885 couple of newspaper sellers, Mr and Mrs Luca, whom she calls *le père Luca*
886 'father Luca' and *la mère Luca* 'mother Luca'. She goes on mentioning other
887 shops and then, at Spk1's request, she gives a description of Mrs Luca,
888 explaining why she found her nasty. Eventually, she mentions Mr Luca again
889 (topic resumption) by means of the CILD in (22b). The topic *le père Luca* 'father
890 Luca' is contrastive, because the assertion that Mr Luca was nice is the opposite
891 of what was previously asserted about Mrs Luca, namely that she was not nice.

892 (22) [CFPP, Mo-67]

893 a. Spk2: y avait un marchand d' journaux c'était chez Luca; la mère
894 Luca elle était pas gentille, monsieur Luca qu'était très gentil; et après y avait l'
895 boulanger c'était chez Berlère et tout au bout y avait une vieille épicerie (...)

896 'There was a newsagent's, Luca's; mother Luca was not nice, and
897 Mr Luca who was very nice; and then there was the baker, Berlère's, and at the
898 far end there was an old grocery (...)

899 spk1 : la mère Luca qu'est-ce qu'elle avait de méchant ?

900 'mother Luca, what was nasty about her?'

901 spk2 : ben elle était méchante: elle avait des grands sourcils (...) avec des
902 yeux mauvais; elle faisait un peu la trouille (...)

903 'Well, she was nasty: she had bushy eyebrows (...) with mean eyes; she
904 was a bit scary (...)

905 b. mais par contre **le père Luca** il était gentil

906 but on the contrary the father Luca he was kind

907 'but on the contrary father Luca was nice'

908 In the second case of topic resumption mentioned at the beginning of this
909 section, an (identical) antecedent is given in the previous discourse – generally,

910 in the immediately preceding utterance – that does not have a topic function yet.
911 Consider (23). The speaker – who works in a primary school – is talking about a
912 first-grade kid who behaves badly and likes to provoke older kids. The
913 antecedent of the topic *les grands* ‘the older kids’ in (23b) is in the preceding
914 utterance ((23a)): there, the referent is introduced as part of the *focus*, which
915 means that it is not the topic of the current discourse. It is only in the left
916 dislocated position in (23b) that the referent gets promoted to topic status.

917 (23) [CID, AC]

918 a. ...un CP six ans tu vois (...) tu ne peux pas le lâcher de l'œil, il fait
919 que des conneries et il agresse les grands (...)

920 ‘...a first grader, six-years old, you know (...) you have to constantly
921 keep your eyes on him, he does stupid things all the time and he attacks the
922 older ones (...)’

923 b. Et comme il est petit, **les grands** ils le poussent un peu tu vois ou
924 ils sont plus patients

925 and since he is little the older ones they him push a bit you see or
926 they are more patient

927 ‘and since he is little, the older kids just push him a bit, you know, they are
928 more patient’

929 Below, another example of this kind of topic is given, where the topic
930 additionally has a contrastive interpretation. Spk1 has asked Spk3 whether the
931 behavior of dogs in her neighborhood annoys her. Spk3 answers by describing
932 the different kinds of dogs that she may encounter in her neighborhood.

933 (24) [CFPP, 6X]

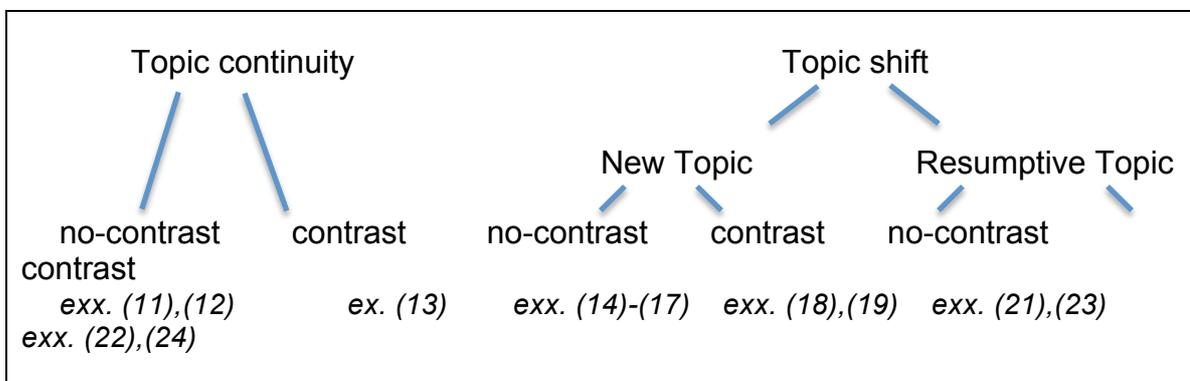
934 a. Spk3 En plus les gens qu'ont des chiens agressifs ils sont agressifs
935 aussi
936 'And besides, those who own aggressive dogs are aggressive too'
937 Spk1: et vous avez ça ?
938 'And do you have that?' (= aggressive dogs in the neighborhood,
939 ndr]
940 Spk3: ah oui
941 'Oh yes'
942 Spk1: vous est arrivé d'avoir peur...
943 'Have you ever been scared...'
944 Spk3 : ah oui oui. Y a des chiens euh dans la banlieue là qui sont...
945 oui, qui
946 sont pas très sympas oui, ou dans le métro même, y en a hein quelques-uns ...
947 et puis y a beaucoup de petits chiens là;
948 'Oh yes, sure. There are dogs in the suburbs that are... yes, that are not
949 very nice yes, or even in the metro, there are some... and then there are many
950 small dogs;'
951 b. **ceux-là** ils aboient ils font un peu d'bruit mais...
952 those they bark they make a little of noise but
953 'Those, they bark, make some noise, but...'
954 c. (...) ça m'fait pas peur, mais ça n'est pas effrayant
955 'I'm not scared, that's not scary'
956 The referent of the dislocated pronoun *ceux-là* 'those' in (24b) is introduced as a
957 new referent in the immediately preceding presentational *y a* construction (*y a*
958 *beaucoup de petits chiens* 'there are many small dogs') and is then used as topic

959 in the dislocation construction.²⁹ The topic is contrastive because the assertion
 960 that these small dogs bark (but are harmless) is opposed to what was previously
 961 asserted about other dogs, namely that they are aggressive and can be scary.

962 As we said, the distance between the dislocated NP and its antecedent, in this
 963 particular case of resumption, can be quite short (usually, the antecedent is in the
 964 preceding utterance). Still, since the topic referent is not the current discourse
 965 topic, the interlocutor does not expect it to be the topic of the upcoming discourse.
 966 That's why we cannot consider this as a case of topic continuity, but as another
 967 kind of topic shift.

968 4.3. Summary of the pragmatic annotation

969 The scheme in Figure 6 summarizes the pragmatic annotation. The scheme
 970 illustrates the classification obtained by combining the different pragmatic
 971 properties that can be associated with a CILDed topic.



972 Figure 6. Classification resulting from the annotation of topics with respect to topic continuity,
 973 discourse givenness, and contrast. For each possible combination of these properties, the
 974 numbers of the relevant examples are given.
 975

976 In the following section, after reporting the number and frequency of topics per
 977 category, we will present the results of the statistical analysis concerning the
 978 relationship between topics and prosody.

²⁹ According to Lambrecht (1994:177) presentational constructions are “topic promoting” devices, namely they introduce a new referent so that it can be used as topic in subsequent discourse.

979 5. ANALYSIS AND RESULTS

980 Table 3 presents the number of contrastive and non-contrastive continuing, new
 981 shifted and resumptive shifted topics in our corpus, as well as their relative
 982 frequencies.

	No-contrast	(%)	Contrast	(%)	Total	(%)
Continuing	6	(2.49)	5	(2.07)	11	(4.56)
Shifted (new)	112	(46.47)	22	(9.13)	134	(55.6)
Shifted (res)	77	(31.95)	19	(7.88)	96	(39.83)
Total	195	(80.9)	46	(19.1)	241	(100)

983 Table 3. Number of items of continuing and shifted topics associated or not to contrasting
 984 alternatives. Relative frequencies are given in brackets.

985
 986 Interestingly, this distribution is similar to the one obtained by Ashby in his
 987 work on the pragmatics of French left and right dislocations (Ashby 1988), in
 988 which the data were also taken from a spontaneous speech corpus. Ashby's
 989 classification is partially different from ours, so some adjustments must be made
 990 in order to compare the two datasets. If we sum Ashby's subject and object
 991 CILDed NPs (see Ashby 1988: 212, Table 3a), we obtain 12 occurrences (7.4%)
 992 of strictly given referents, 99 (60.7%) of new (inferred) referents, and 50 (33.7%)
 993 of textually given referents. 'Strictly given' referents are "those where an
 994 anaphoric pronoun apparently would have sufficed to identify the referent"
 995 (Ashby 1988:211), so they clearly correspond to our continuing topics. As for
 996 'new (inferred)' referents, Ashby clarifies the meaning of 'new' : "it is generally
 997 acknowledged that neither left- nor right- dislocations can be used with referents
 998 that are 'brand-new' [...] or 'unidentifiable' [...]. That is, there must be a 'semantic
 999 link' [...] between the proposition containing the dislocation and the preceding
 1000 discourse" (Ashby 1988:215). This is precisely the case of our own new shifted
 1001 topics: their referent, although new in the discourse, is 'inferentially accessible',
 1002 as Ashby would put it. Finally, 'textually given' referents correspond to what we

1003 call resumptive shifted topics, because Ashby defines them precisely as referents
1004 that “may have been mentioned earlier in the discourse, but are not the
1005 immediate discourse topic”. Ashby (1988:217, Table 5a) also counts 79 (21%)
1006 cases of contrast (that is, where a set of alternatives is recoverable in the
1007 discourse, and of which the topic itself is a member), and 279 (73%) occurrences
1008 of topic shift. We see in Table 3 that contrastive topics represent, similarly, about
1009 19% of our dataset. If we sum new and resumptive shifted topics that are not
1010 contrastive, we obtain a similar frequency to Ashby’s for shifted topics too, that is
1011 78% (189 utterances).

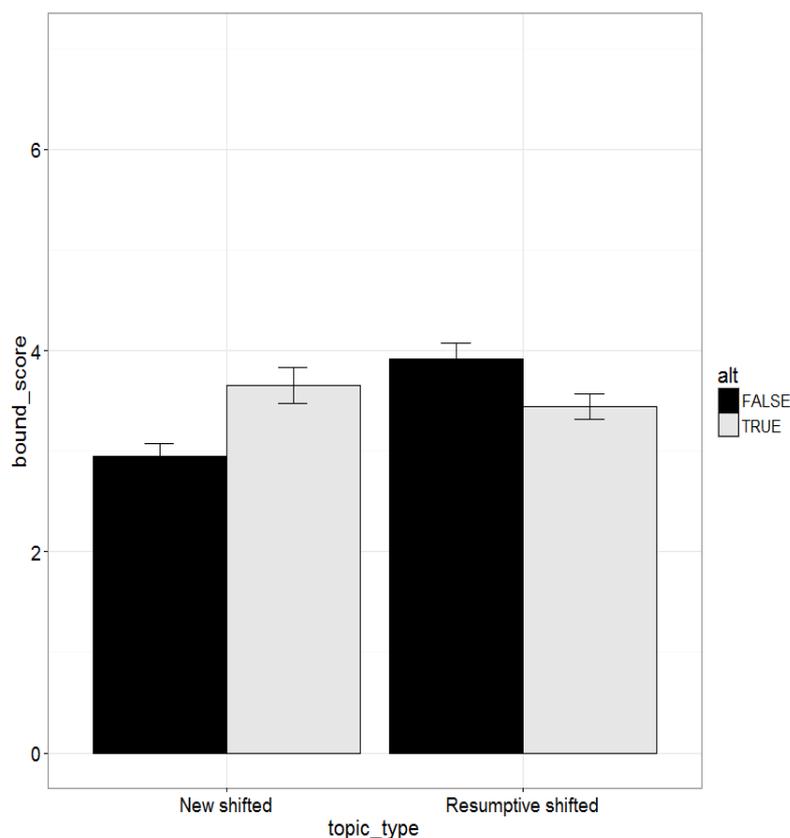
1012 Concerning the relationship between these topic types and prosody, as
1013 explained in the introduction, the goal of our paper was to assess the existence
1014 of an effect of such topics on the degree of the prosodic boundary strength. In
1015 order to pursue this goal, Linear Models were carried out.³⁰ For computational
1016 reasons, it was not possible to enter in the model all the predictors coded in
1017 Table 1. In order to limit potential variation due to syntactic reasons (the
1018 grammatical function of the dislocated NP and the root/subordinate clause
1019 distinction) the analysis was made only on subject NPs and on non-embedded
1020 sentences. Finally, we excluded continuing topics (11 utterances). In total, the
1021 analysis was therefore made on 159 utterances.

1022 Prominence score (as a linear factor) was entered as the outcome, the
1023 number of syllables (also as a linear factor), topic type (new shifted
1024 topic/resumptive shifted topic), contrast (contrastive/non contrastive) and the
1025 interaction between topic type and contrast were entered as predictors. Corpus

³⁰ Statistical calculations were conducted with the software R, v.3.1.2. (R Development Core Team, 2015).

1026 (CID/CFPP), items (the head noun of the NP) and speakers were entered as
1027 random effects. P-values, set at a level of 0.05, were obtained by likelihood ratio
1028 tests of the model against the model without the fixed effects in question.

1029 The results of the model revealed that the interaction between topic shift and
1030 contrast was significant ($\chi^2(1)= 12.2870, p<0.05$). Post-hoc tests showed that
1031 new shifted topics differ significantly according to the presence or not of
1032 contrasting alternatives ($p < 0.05$): the boundary score is higher in the contrastive
1033 context than in the non-contrastive one. Also, a significant difference was found
1034 between a resumptive and a new shifted topic in the non-contrastive context ($p <$
1035 0.001), the former topic type being more prominent than the latter. Figure 7
1036 illustrates these differences:



1037 Figure 7. Effect of the discourse properties of the topic on prosodic boundary score. The
1038 columns show the average score for new shifted topics and resumptive shifted topics as a
1039 function of the presence of contrastive alternatives (alt). Error bars represent the standard error
1040 from the mean.
1041
1042
1043

1044 6. DISCUSSION

1045 Summarizing the results presented in the preceding section, our statistical
1046 analysis reveals:

1047
1048 - a significant effect of contrast on new shifted topics, contrastive ones being
1049 more prominent than non-contrastive ones;

1050 - a significant difference with respect to the pragmatic properties of the topic,
1051 resumptive shifted topics having a stronger prosodic boundary than new shifted
1052 ones; this difference, however, only appears to be significant among *non-*
1053 *contrastive* shifted topics.

1054 Given these results, the following remarks can be made concerning the
1055 prosody/pragmatic interface. As for the given/new dimension, namely the mere
1056 presence of an identical topic antecedent in previous discourse, the interaction
1057 with prosody *does* occur, but in an unpredictable way with respect to previous
1058 assumptions (see discussion in Section 1.2). According to our results, the
1059 dislocated element displays a stronger prosodic break when the referent is *given*,
1060 not new. Note however that this effect is only visible, in our data, with shifted
1061 topics, as we eventually excluded continuous topics from the analysis. Therefore,
1062 we cannot be certain that the effect is due to givenness by itself. Recall that in
1063 resumptive shifted topics the shift occurs either by resuming a topic referent from
1064 a previous discourse segment and making it topic again, or by taking a non-
1065 topical referent from the discourse and promoting it to topic.³¹ We may suspect

³¹ In a previous stage of this work, a model was tested where these two kinds of resumptive topics were considered as separate factors. Each of them displayed a significantly stronger prosodic boundary than new shifted topics. Given such results, and given that the two topics share the same values with respect to the features of Table 1 (both are *shifted* but *given*), we

1066 that the interpretation of our results is then that prosody helps to promote a
1067 referent to topic status whenever the referent, although present in previous
1068 discourse, is not expected to be the upcoming topic.

1069 As for the fact that the difference between new and resumptive shifted topics
1070 only concerns *non*-contrastive topics, this can be related to the other result of our
1071 analysis, namely that there is a significant difference between contrastive and
1072 non-contrastive new shifted topics. The boundary score is higher with contrastive
1073 new shifted topics: such a higher score presumably blurs the difference between
1074 new and resumptive topics, and in particular the higher score of the latter.

1075 We may wonder why the effect of contrast on prosody should only appear
1076 within new shifted topics and not with resumptive ones. If we look more carefully
1077 at the data, we see that within resumptive shifted topics, in most cases, the
1078 contrasting members of the set have already been introduced in the discourse.
1079 For instance, in (25), the contrasting alternatives (the speaker and the speaker's
1080 children) are already introduced in (25c), hence before contrast is expressed in
1081 (25d) and (25e).

1082 (25) [CFPP, 70]

1083 a. spk1 : le passage de la de la maison à l'extérieur avant le mariage [...]

1084 ça s'est fait comment

1085 'the passage from home to outside, before marriage [...] how is it
1086 done?'

1087 b. spk2 : ah pour mes enfants

1088 'for my children?'

1089 c. spk1 : pour vous et pour eux ?

opted for a model where they belong to the same class.

1090 'for you and for them?'

1091 d. spk2: pour moi c'était hors de question bien évidemment [...]

1092 'for me, it was out of question, of course [...]

1093 e. ben mes enfants ils se sont installés chez eux quand ils m'ont dit

1094 qu'ils voulaient s'installer chez eux

1095 '(as for) my children, they went living by themselves when they told me

1096 that they wanted to go living by themselves'a.

1097 On the contrary, in the case of new shifted topics, it is often unexpected that

1098 the newly introduced topic is in contrast with some other referent. Such

1099 unexpectedness could motivate a stronger prosodic marking. Consider (26). The

1100 speaker is talking about her childhood and the fact that she used to go to do

1101 grocery shopping for her mother. She says that she loved to do that, and then

1102 she introduces her sister (for the first time in this discourse segment) and

1103 contrasts her attitude toward grocery shopping with her own attitude. The very

1104 presence of an alternative set only becomes evident once the second sentence

1105 is uttered.³²

1106 (26) a. Moi, j'adorais ça [CFPP, 1453]

1107 '(As for) me, I loved that'

1108 b. ah ma sœur, elle était plus timide plus réservée

1109 ah my sister she was more shy more reserved

1110 'my sister was more shy, more reserved'

³² Notice that in this example the contrast is inferred: the utterance states that the speaker's sister was more shy, which implies that she did not like to interact with sellers, and therefore to do the shopping.

1111 Speaking in more general terms, contrastive contexts are extremely varied in
1112 our data. First, alternatives may be comparing or opposing ones. In (18) or (19),
1113 for instance, the target utterance, which is a member of an alternative pair, is
1114 simply compared to its alternative, while in (25) or (26), as well as (27) below, the
1115 alternatives are opposed. This is particularly clear in (27), where the same verb is
1116 used in both utterances, but with opposite polarity (cf. Myhill and Xing 1996).

1117 (27) **celui-là**, je l' connais **les autres**, je les connais pas [CFPP, MoF]
1118 that-one I it know the others I them know not
1119 'that one I know, but the other ones I don't'

1120 The second source of variation is given by the different degrees of explicitness
1121 of the contrastive interpretation in our data. In most contrastive utterances where
1122 the alternatives are opposed, the opposition is implicit, namely the proposition
1123 that negates the assertion of its alternative must be inferred from the discourse.
1124 We have seen this in (26), where the opposition between the speaker and the
1125 speaker's sister (she liked to do grocery shopping, her sister didn't) is inferable
1126 by what is predicated about the sister (she was shy), as explained in footnote 32.
1127 The level of explicitness of contrast also varies depending on the presence or not
1128 of a lexical contrastive marker (such as *plus* 'more' in (26) or *par contre* 'on the
1129 contrary' in (22)). Finally, it may depend on the position of the contrasting
1130 alternative, which may precede or follow the utterance containing the topic: when
1131 the alternative utterance *precedes* the one containing the topic (which is
1132 generally the case in our data), the opposition of the latter with the former is
1133 obviously clearer. We may hypothesize that the strength of the prosodic
1134 boundary of the dislocated element varies depending on these factors, that is on
1135 the presence or not of an opposition between alternatives, and the degree of

1136 explicitness of such an opposition. More precisely, the relationship between
1137 contrast and prosody might be gradual: the less explicit the contrast is, the
1138 stronger the prosodic marking.³³ In order to check this hypothesis, our dataset
1139 should contain many more contrastive utterances than it actually does. In fact, a
1140 specific study focusing on contrast alone should be pursued, where different
1141 degrees of transparency of contrast are explicitly taken into account. This,
1142 however, goes beyond the scope of the present work and will be left to future
1143 research.

1144 If we consider the pragmatic annotation alone, independently from its prosodic
1145 correlates, a qualitative analysis of our data may contribute to a better
1146 understanding of the pragmatic function of a CILDed NP in French. The fact that
1147 most of our topics are shifted and only few are continuing seems to be consistent
1148 with what is said in the literature (see references and discussion in Sections 4.1
1149 and 4.2), namely on the one hand, that left dislocation is mainly used as a topic
1150 shifting device, and on the other, that continuing topics are not generally realized
1151 as CILDed elements.³⁴ The data are also consistent with results obtained in

³³ See for instance Braun and Ladd (2003) for results showing a gradual prosodic marking of contrastive topics in German. See Repp (2016:6) (and references quoted therein) for a discussion of contrast as a gradable phenomenon.

³⁴ Of course, while we can safely assume that most of the remaining continuing topics in our text are clitics (see discussion in Section 4.1 and references cited therein), the proportion of continuing topics that are full NPs but *not* left dislocated (that is, either right dislocated or not dislocated at all) is not known. Without such information, three explanations for the low number of continuing topics among CILDs are conceivable: either they are few because *left* dislocated, or

1152 previous work on CILDs in spontaneous spoken French, such as Ashby (1988)
1153 (see Section 5). As for contrast, we have seen that topics belonging to an
1154 alternative set account for 19.1% of the total (see Table 3). This percentage
1155 seems rather small, given the association that is commonly made between
1156 contrast and left dislocation (see e.g. Chafe 1976, Lambrecht 1994, Arregi 2003,
1157 Molnár 2002). A possible explanation for this mismatch is the following. The
1158 constructions studied in previous literature (in different languages) are generally
1159 *object* dislocations, while in our corpus, dislocated subjects constitute the largest
1160 set. Contrast could be a function that is more often associated with object
1161 dislocation. This is what Brunetti (2009) claims for Italian and Spanish. Brunetti's
1162 argument is that an object is not a prototypical topic in most cases, as it often
1163 lacks agentivity, animacy, and other prototypical topic properties. Therefore, an
1164 object dislocation (which promotes an object to topic position) only occurs in
1165 specific contexts that precisely demand that the object be the topic. One of these
1166 contexts is the contrastive one, hence the frequent contrastive interpretation of
1167 dislocated objects. A partial confirmation of Brunetti's claim comes from the
1168 difference, in our data, between the number of object topics and subject topics
1169 associated with contrast: contrastive object topics constitute about 35% of all
1170 objects (13 out of 37 items), while contrastive subject topics are only 16.6% of all

they are few simply because they are *dislocated*, or, finally, they are few because they are full NPs (and not clitics).

1171 subjects (34 out of 204 items). The number of items is not very large, but these
1172 results can be a starting point for further and more accurate research.³⁵

1173 What we think is important to highlight here, to conclude, is that an analysis of
1174 a spontaneous speech corpus – which allows for a study of the *frequency* of a
1175 construction as well as its different *discourse functions* – can be crucial for a
1176 better understanding of the construction itself.

1177 7. CONCLUSIONS

1178 The goal of our paper was to test, by means of a quantitative as well as
1179 qualitative analysis of data from French spontaneous speech, the relationship
1180 between the prosodic boundary strength at the right edge of a dislocated NP and
1181 the different discourse properties of the NP itself. Our results allow us to suggest
1182 that prosodic boundary strength variations are used to signal the ‘promotion’ of a
1183 referent to topic status, when such a referent is already present in the discourse
1184 but not yet, or not any more, the topic. In other words, prosody does not signal
1185 that a topic is new, but rather that a known referent is *newly* promoted to topic.
1186 This conclusion, if correct, suggests that the role of prosodic boundary strength
1187 variations is related to discourse structuring: prosody seems to help the hearer to
1188 retrieve the speaker’s intentions/strategy concerning the structuring of his/her
1189 discourse.

1190 As for contrast, our results show the existence of a stronger prosodic
1191 boundary in the presence of contrasting alternatives, but only with new shifted
1192 topics. We have suggested an explanation of this result based on the fact that, in

³⁵ In a recent work based on the same CFPP2000 corpus, Riou and Hemforth (2015) confirm these results by finding a significantly higher frequency of contrastive topics among object dislocations than among subject ones.

1193 our data, contrast of a newly introduced topic with some other referent is
1194 generally unexpected, while this is not the case with a resumptive topic. We must
1195 further add that our work is only concerned with the strength of the prosodic
1196 boundary. It is possible that by taking into account the intonational patterns of the
1197 NP, our results on contrast would be more evident. Indeed, as we have
1198 mentioned at the beginning of this paper, it is often claimed that contrast is
1199 encoded by a specific tonal realization (different pitch accents and tonal
1200 alignment differences, see for instance Braun 2006, among others). As for
1201 French, it has recently been shown that contrast may be encoded by a late dip
1202 (see Turco & Delais-Roussarie 2014).

1203 From the mere count of the contrastive utterances in our dataset, we can
1204 finally point out that the presence of contrasting alternatives is not an inherent
1205 property of CILDed NPs in French. Indeed, only a small percentage of dislocated
1206 NPs (especially subjects) involves contrast.

1207 This study deserves to be completed in several directions. Concerning the
1208 prosodic analysis, future work should take at least two paths. First, other
1209 prosodic cues should be tested: we did not take into account intensity values or
1210 post-boundary syllabic lengthening, which have been considered as significant in
1211 previous studies dealing with syntactic aspects of clitic left dislocations (Guilbault
1212 1995, Astésano et al. 2008).³⁶ Secondly, perception tests should be conducted,
1213 in order to assess the relevancy of the differences in boundary strength found
1214 between new and resumptive shifted topics, and more precisely to check whether
1215 the discourse property related to resumptive shifted topics – the combination of

³⁶ We admit that this is a limit of a study based on spontaneous speech: more controlled data are needed to take these elements into account.

1216 givenness and topic shift – is phonologically coded in the system of French
1217 speakers.

1218 As for the pragmatic analysis, the small amount of left dislocated continuing
1219 topics forced us to exclude them from the statistical model. A larger dataset
1220 would allow us to verify whether the prosodic effect that we find in resumptive
1221 shifted topics is indeed due, as we suspect, to the combination of givenness and
1222 shift, and not to givenness alone. Finally, our pragmatic annotation only focuses
1223 on the properties of the topic referent in the *preceding* discourse: whether it is
1224 given or not and whether it is the topic or not of the preceding discourse.
1225 However, the pragmatic function of a left dislocation has also been linked to topic
1226 persistence in the *succeeding* discourse (see Lambrect 1984, Barnes 1985,
1227 Gregory and Michaelis 2001). What remains to be tested is therefore whether
1228 such a property may be related in some way to the prosodic realization of the
1229 dislocated NP.

1230

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1240

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