

1 **Historical pathways to null subjects:**
2 **Implications for the theory of pro-drop***
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5
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8
9 **1. Introduction**
10

11 In generative approaches to pro-drop phenomena, it is standardly assumed
12 that there is a correlation between the availability of null subjects and rich
13 verbal inflection (cf. Jaeggli & Safir 1989, Roberts 1993, Vikner 1997,
14 Rohrbacher 1999, among many others; see e.g. Haider 1994 for a critical
15 review). Accordingly, it is expected that historically, pro-drop emerges
16 when the richness of verbal agreement marking crosses a certain threshold.
17 Furthermore, since the ‘pro-drop parameter’ is generally considered as
18 being binary in nature (i.e., referential pro-drop is either generally avail-
19 able or completely absent), the rise of pro-drop is predicted to proceed in
20 an across-the-board fashion, affecting all persons and numbers at once.

21 This paper discusses two different pathways to null arguments that are
22 at odds with these predictions. We will see that the relevant changes fail to
23 exhibit either the expected across-the-board character or the correlation
24 with properties of verbal agreement.

25 First, it is shown that null subjects develop as a by-product of the
26 reanalysis of pronominal clitics as verbal agreement markers (see Haider
27 1994, Roberts & Roussou 2003: 185f.). This historical development, which
28 can be observed in German dialects and non-standard varieties of French,
29 typically takes place in a piecemeal fashion, that is, it affects certain person/
30 number combinations before others. Hence, referential pro-drop is at first
31 restricted to certain slots of the paradigm (sometimes referred to as ‘partial
32 pro-drop’), before it eventually extends to all persons and numbers. This is
33

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40 course, all remaining errors are mine.

1 illustrated in (1) and (2) with examples from present-day Bavarian, where
 2 referential pro-drop is restricted to second person (Bayer 1984):

3 (1) a. *Kummst noch Minga, dann muaßt me b'suacha.*
 4 come-2SG to Munich then must-2SG me visit
 5 'If (you) come to Munich (you) must visit me.'

6
 7 b. *Kummts noch Minga, dann müaßts me b'suacha.*
 8 come-2PL to Munich then must-2PL me visit
 9 'If (you.PL) come to Munich (you.PL) must visit me.'

10
 11 (2) a. **Kumm noch Minga?*
 12 come-1SG to Munich
 13 'Will (I) come to Munich?'

14
 15 b. **Kumm-t noch Minga?*
 16 come-3SG to Munich
 17 'Will (he/she/it) come to Munich?'

18 Furthermore, I am going to demonstrate that the replacement of clitic
 19 pronouns by null subjects is not directly related to properties of the agree-
 20 ment paradigm as a whole. The basic proposal that I want to explore
 21 is that the rise of agreement-related null arguments is governed by the
 22 following two factors, which both involve the notion of morphological
 23 blocking:

- 24
 25 (i) An acquisition strategy that motivates the reanalysis of a particular
 26 pronominal clitic if the resulting agreement marker is more distinc-
 27 tive than the existing verbal inflection (cf. Fuß 2005);
 28 (ii) Deblocking of a (universally available) null realization of weak/clitic
 29 pronominal forms (formerly blocked by the presence of a more
 30 distinctive overt spell-out), in case the reanalysis leads to a gap in
 31 the paradigm of weak pronouns (assuming that null subjects are to
 32 be analyzed as the zero realization of regular pronominal forms,
 33 Holmberg 2005).

34 Second, it is shown that an alternative path toward null arguments can be
 35 observed in creole languages such as Mauritian Creole (Syea 1993, Adone
 36 1994a, b), which exhibits referential null subjects:

37
 38 (3) *Pu return dañ peis bieñto.*
 39 MOD return in country soon
 40 '[I] will go back to the country soon.'

1 (4) *Ti boykot en paket kreol dañ travay.*

2 TNS boycott QUA many creole in work

3 '[He] boycotted many creoles in his work.'

4
5 The historical developments in Mauritian Creole contrast with the
6 changes affecting Bavarian and Non-Standard French in at least two
7 ways: first, the rise of null arguments does not involve the grammaticaliza-
8 tion of agreement markers (Mauritian Creole lacks the category of verbal
9 agreement). Second, it apparently proceeds in an across-the board manner,
10 affecting all kinds of arguments (including objects) in a more or less equal
11 way. A similar development is shown to have affected Chabacano, a
12 Spanish-based creole spoken in the Philippines (Lipski 2001). I am going
13 to argue that the null subjects found in Mauritian Creole and Chabacano
14 developed on the model of discourse-oriented pro-drop found in certain
15 Austronesian languages (due to language contact or substrate influence),
16 where the licensing/identification of the argument gap seems to be linked
17 to the elaborate verbal voice morphology, which indicates the null argu-
18 ment's thematic role. Both pathways to pro-drop discussed here – the
19 one linked to the rise of agreement as well as the grammaticalization of
20 discourse-oriented pro-drop – are not readily compatible with the notion
21 that there is a systematic correlation between pro-drop and rich verbal
22 agreement morphology.

23 The paper is organized as follows. Section 2 discusses the development
24 of partial pro-drop in the history of Bavarian, arguing that the emergence
25 of null subjects is linked to the reanalysis of clitic pronouns as enlarge-
26 ments of the existing suffixal agreement morphology. In section 3, it
27 is shown that a related development has been affecting Non-Standard
28 French, albeit in a more wholesale fashion, eventually leading to full-
29 fledged referential pro-drop in all persons and numbers. Section 4 takes a
30 cursory look at the emergence of discourse-oriented pro-drop phenomena
31 in Mauritian Creole and Chabacano (Philippine Spanish Creole), arguing
32 that the relevant historical developments share a number of properties,
33 which can be attributed to contact with (or, substrate influence of)
34 Austronesian languages (Malagasy and Tagalog, respectively).

35 36 37 **2. The development of partial pro-drop in Bavarian**

38 As illustrated in (1) and (2) above, Bavarian exhibits a form of partial pro-
39 drop where referential null subjects are confined to 2nd person contexts
40

1 (and 1pl in some dialects, see below) (cf. Bayer 1984, Weiß 1998, 2002,
2 2005, Axel & Weiß, this volume). Interestingly, these are the very same
3 contexts in which Bavarian exhibits the phenomenon of complementizer
4 agreement (Bayer 1984, Altmann 1984, Weiß 1998, 2002, 2005):¹

- 5 (5) a. *ob-st* (du) noch Minga *kumm-st*
6 whether-2SG you.SG to Munich come-2SG
7
8 'whether you come to Munich'
- 9 b. *ob-ts* (ees/ihr) noch Minga *kumm-ts*
10 whether-2PL you.PL to Munich come-2PL
11
12 'whether you(PL) come to Munich'

13 The formatives *-st*, *-ts*, which attach to the complementizer in (5), are
14 obligatorily present and cannot be replaced by the relevant tonic subject
15 pronouns. The latter are only acceptable if they co-occur with *-st/-ts*, cf.
16 (6). This contrasts with the behavior of genuine subject clitics (cf. (7)) and
17 can be taken to indicate that the *-st* and *-ts* are not pronominal clitics, but
18 rather inflections.² Furthermore, the fact that it is not possible to attach
19 the alleged 2nd person 'clitics' *-st/-ts* to the inflected verb (forms such as
20 2sg **kummst-st* or 2pl **kummts-ts* are not well-formed) can be taken to
21 indicate that Bavarian lacks 2nd person subject clitics altogether (that
22 is, there are gaps in the paradigm of clitic pronouns; see Altmann 1984,
23
24

-
- 25 1. Further languages that exhibit the phenomenon of partial pro-drop include
26 Finnish, Hebrew (Vainikka & Levy 1999, Koenenman 2007; see also below)
27 and Frisian, where pro-drop is also limited to contexts where complementizer
28 agreement is available (2sg) (examples taken from Zwart 1993: 256):

- 29 (i) a. *Kom-st* (do) *jûn?*
30 come-2SG you tonight
31 'Do you come tonight?'
- 32 b. *dat-st* (do) *jûn kom-st*
33 that-2SG you tonight come-2SG
34 'that you come tonight'

35 2. Note that some properties of complementizer agreement seem to speak
36 against an analysis in terms of inflectional formatives. The following examples
37 illustrate that in the absence of a complementizer, the inflection can attach to
38 any element that occurs in the left periphery of the clause such as DPs (iia),
39 adjectives (iib), or adverbs (iic) (examples taken from Bayer 1984: 235; see
40 also Zehetner 1985 and Nübling 1992):

1 Bayer 1984, Fuß 2005). Accordingly, the sentences in (5) must be analyzed
2 as instances of referential pro-drop.

3 (6) a. **ob du noch Minga kumm-st*
4 whether you.SG to Munich come-2SG
5 ‘whether you come to Munich’
6

7 b. **ob ees/ihr noch Minga kumm-ts*
8 whether you.PL to Munich come-2PL
9 ‘whether you come to Munich’
10

11 (7) a. *ob=e (*i) noch Minga kumm*
12 whether=CLIT.1SG I to Munich come-1SG

13 b. *ob i noch Minga kumm*
14 whether I to Munich come-1SG
15 ‘whether I come to Munich’
16

17 An additional instance of complementizer agreement can be observed in
18 some Carinthian and Lower Bavarian varieties, where the 1pl subject
19

20 (i) a. *Du soll-st song [CP [an wäichan Schuah]-st [IP du wui-st]]].*
21 you should-2SG say which shoe-2SG you want-2SG
22 ‘You should say which shoe you want.’
23

24 b. *[CP [Wia oit]-ts [IP ihr/es sei-ts]] is mir wurscht.*
25 how old-2PL you are-2PL is me.DAT not-important
26 ‘How old you are makes no difference to me.’

27 c. *[CP [Wia schnäi]-ts [IP ihr/es fahr-ts]]!*
28 how fast-2PL you.PL drive-2PL
29 ‘How fast you drive!’

30 At first sight, this kind of behavior might be taken to indicate that the relevant
31 formatives are clitics (rather than inflections, which typically select for a
32 unique host). However, one can argue that in examples such as (ia–c), there
33 is actually a phonetically empty complementizer present to which the inflec-
34 tional ending attaches (cf. Harnisch 1989). Under this assumption, one can
35 maintain that the set of hosts which the relevant agreement formatives select
36 for is rather limited (only C⁰ elements, i.e., complementizers and finite verbs).
37 This analysis is supported by the fact that the complementizer can also be
overtly present in the above examples, cf.

38 (ii) *Du soll-st song [CP [an wäichan Schuah] (dass)-st [IP du wui-st]].*
39 you should-2SG say which shoe-2SG that-2SG you want-2SG
40 ‘You should say which shoe you want.’

1 enclitic *-ma* turned into a C-related inflection (cf. Pfalz 1918, Schirmunski
 2 1962: 525, Bayer 1984, Altmann 1984, Kollmer 1987, Wiesinger 1989,
 3 Abraham 1995, Weiß 1998, 2002, Fuß 2005). As a result of that change,
 4 the formative 1pl *-ma* exhibits a similar behavior as the 2nd person inflec-
 5 tions: it is obligatory in all contexts and it can be doubled by full pronoun,
 6 as illustrated in (8) and (9). Moreover, (10) shows that in a subset of the
 7 relevant varieties, the new agreement formative has fully replaced the
 8 older ending */-an/* (albeit the extension is still restricted to auxiliaries and
 9 a couple of modals):

- 10 (8) a. *wem-ma aaf Minga fon*
 11 when-1PL to Munich drive
 12
 13 b. *wem-ma mia aaf Minga fon*
 14 when-1PL we to Munich drive
 15
 16 c. **wem mia aaf Minga fon*
 17 when we to Munich drive
 18 ‘when we drive to Munich’ (Weiß 2002: 9)

- 19 (9) a. *Mia fom-ma hoam.*
 20 we drive-1PL home
 21 ‘We go home.’ (Weiß 2002: 9)
 22
 23 b. **Mia fon hoam*
 24 we drive home
 25 ‘We go home.’ (Helmut Weiß, p.c.)
 26

- 27 (10) a. *dass-ma (mia) koã geid ned hã-ma* [instead of 1pl *hã-n*]
 28 that-1PL we no money not have-1PL
 29 ‘that we have no money’ (Kollmer 1987: I, 362)
 30
 31 b. *we-ma (mia) des ned dou-ma...* [instead of 1pl *dou-n*]
 32 if-1PL we that not do-1PL
 33 ‘if we don’t do that...’ (Kollmer 1987: I, 358)

34 Accordingly, sentences like (11) must presumably be analyzed as involving
 35 a null subject, similar to related examples with 2nd person forms (Bayer
 36 1984: 252):

- 37 (11) *Fahr-ma Ø noch Minga?*
 38 drive-1PL to Munich
 39 ‘Will (we) go to Munich?’
 40

1 The fact that pro-drop is limited to the same contexts where inflected com-
 2 plementizers appear has led some researchers to propose that the overt
 3 manifestation of agreement in C serves to license referential null arguments
 4 in the subject position (cf. e.g. Bayer 1984, Weiß 2002, Axel & Weiß, this
 5 volume). While this proposal raises a couple of questions from a purely syn-
 6 chronistic point of view,³ it is fairly clear that the two phenomena are corre-
 7 lated historically.

8 In Bavarian (and a number of other Germanic varieties), new verbal
 9 agreement suffixes developed via a reanalysis of subject enclitics attached
 10 to the finite verb in inversion contexts. This change led to an enlarge-
 11 ment of the existing inherited agreement endings, the best-known case
 12 being 2sg *-s + t(hu)* >> 2sg *-st* (Brinkmann 1931, Sommer 1994, Braune &
 13 Reiffenstein 2004: 261; cf. Bayer 1984, Weiß 2002, Fuß 2005 for details of
 14 the changes affecting Bavarian).⁴ In Fuß (2004, 2005), it is argued that the
 15 transition of pronouns to agreement markers forced the learner to assume
 16 the presence of a referential null subject (*pro*) receiving the thematic role
 17 of the external argument, which had formerly been assigned to the clitic
 18
 19
 20
 21
 22

23 3. For example, it is unclear why complementizer agreement and pro-drop are
 24 limited to 2nd person contexts in Bavarian. From a purely synchronic point
 25 of view, this restriction appears to be quite arbitrary, as it does not relate to
 26 any other property of the grammar. Furthermore, we might ask why pro-
 27 drop is also licensed in inversion contexts, where complementizer agreement
 28 is not visible (cf. (1)). Note that in these contexts, the restriction to 2nd person
 29 cannot be attributed to some special morphological property of 2nd person
 30 verbal agreement suffixes, in the sense that 2nd person forms are more dis-
 31 tinctive than 1sg or 3sg (Axel & Weiß, this volume, assume that *pro* must be
 32 c-commanded by pronominal agreement. This requires that speakers/learners
 33 must be able to ascertain the \pm pronominal status of a particular agreement
 34 ending, which does not seem to be an easy task). Finally, note that in other
 35 varieties such as West Flemish and dialects spoken in the east and south of
 36 the Netherlands, the presence of complementizer agreement does not license
 37 pro-drop (cf. e.g. Zwart 1993).

38 4. As has been suggested occasionally (cf. e.g. Paul 1879: 549, Braune & Reiffen-
 39 stein 2004: 261), this change was presumably promoted by the fact that
 40 other verbs already showed *-st* for the 2sg present indicative (notably, the class
 of preterite-presents, e.g. *kanst, tarst, muost, weist* and the 2sg of 'be' *bist*,
 which resulted from an independent and earlier development, cf. Lühr 1984).

1 pronoun.⁵ It is assumed that this gave rise to the limited pro-drop proper-
 2 ties of the present-day language (cf. Weiß 2002 for a related proposal):

- 3 (12) $[_{CP} XP [_{C'} V_{fin} [_{IP} clitic_{subj} \dots]]] \rightarrow [_{CP} XP [_{C'} V_{fin} + AGR [_{IP} pro \dots]]]$
 4
 5 a. 2sg: $/-s/ + /t/$ (\ll clit. 2sg $t(hu)$)
 6 b. 2pl: $/-t/ + /s/$ (\ll clit. 2pl $(ee)s$)
 7 c. 1pl: $/an/ \rightarrow /ma/$ (\ll clit. 1pl ma)

8
 9 However, this proposal raises two further questions, which are addressed
 10 below. First, we might ask why the absence of an alternative overt carrier
 11 of the relevant thematic role (e.g., a left-dislocated subject double) does
 12 not simply block the reanalysis of the pronominal clitics (instead of giving
 13 rise to the marked parametric option of partial pro-drop). Second, the fact
 14 that the reanalysis did not affect all existing agreement endings, giving rise
 15 to full-fledged pro-drop, but was rather confined to 2nd person forms
 16 (plus 1pl in some varieties) calls for an explanation.

17 2.1. Deblocking the zero spell-out of weak pronouns

18
 19 In this section I will take a closer look at the circumstances under which
 20 the transition from pronominal clitics to inflectional markers may give
 21 rise to null subjects. In particular, I want to explore the question of how
 22 agreement-related null arguments can develop in a language such as
 23 Bavarian that otherwise lacks the prerequisites (i.e., rich verbal inflection)
 24 for full-fledged ‘Italian-style’ referential pro-drop.

25 The proposal I want to put forward is based on the idea that the type of
 26 partial pro-drop found in Bavarian is systematically linked to gaps in the
 27 paradigm of weak (or clitic) pronominal forms. Recall that the evidence
 28 available to us suggests that the reanalysis of clitic pronouns did not only
 29 lead to new agreement suffixes, but also produced gaps in the paradigm of
 30 weak/clitic pronouns (cf. e.g. Altmann 1984: 200):

31
 32
 33
 34
 35 5. The evidence available to us suggests that the change proceeded as follows
 36 (cf. Fuß 2005, ch. 5 & 6 for details):

- 37 (i) a. $V + enclitic$ (inversion contexts) $\rightarrow V + Agr + pro$
 38 b. Bavarian: extension to other C-related elements such as
 39 complementizers, relative pronouns etc.
 40 c. Extension of the new ending to verbs in clause-final positions

Table 1. Agr suffixes (pres. indic.) and subject clitics in present-day Bavarian

	Verbal agreement	Subject clitics
1sg	-Ø	<i>e</i>
2sg	- <i>st</i>	–
3sg	- <i>t</i>	<i>a/s</i>
1pl	- <i>an(d)</i>	- <i>ma</i>
	- <i>ma</i> (in some varieties)	–
2pl	- <i>ts</i>	–
3pl	- <i>an(d)</i>	<i>s</i>

A brief look at Table 1 suggests that pro-drop becomes available in those contexts where the clitic paradigm exhibits a gap. So the relevant empirical generalization seems to be that null subjects are licensed in case there is no visible weak form stored in the lexicon. Of course this raises the question of how we can formally explain the apparent correlation between the availability of empty subjects and apparent gaps in the paradigm of weak forms. The basic idea I want to pursue is that the availability of null subjects is systematically linked to properties of the paradigm of overt (weak) pronouns (see also Neeleman & Szendrői 2007). More precisely, let us assume that a null spell-out of weak pronouns becomes available if there is no competing overt candidate available that realizes a greater subset of the underlying morphosyntactic features than the null spell-out. In other words, partial pro-drop is analyzed as an instance of deblocking, where a less specified phonological realization, namely zero, becomes available in the absence of a more specified competing form. We shall now take a closer look at the specifics of this proposal.

Following Holmberg (2005) and Neeleman & Szendrői (2007), I assume that the phenomenon of pro-drop in fact does not involve a special empty category like *pro*. Adopting a Late Insertion approach where syntactic nodes are associated with phonological features post-syntactically (cf. e.g. Halle & Marantz 1993), null arguments are then analyzed as regular pronominal forms that fail to be associated with a phonological matrix at the point of Vocabulary Insertion. More precisely, null pronouns are a particular variant of weak pronominal forms (cf. Cardinaletti & Starke

1 1999). Adopting a minimalist approach,⁶ let us assume that the syntactic
 2 structure corresponding to a weak pronoun is a category $D^{\min/\max}$ (D^0 in
 3 traditional X-bar notation) that is both minimal (since it is non-complex)
 4 and maximal (since it is merged in a thematic specifier position and does
 5 not project) at the same time (Chomsky 1995: 249, Roberts 2007). In
 6 contrast, full tonic pronouns are analyzed as DPs (cf. e.g. Chomsky 1995:
 7 249). A pronominal $D^{\min/\max}$ is characterized by the binary features
 8 $[\pm\text{pronominal}]$, $[\pm\text{anaphoric}]$ (cf. Chomsky 1982), a definiteness feature
 9 ($[+\text{definite}]$), and a set of ϕ -features (at least person, number, and case).
 10 A relevant pronunciation rule (or, Vocabulary item) that gives rise to a
 11 null weak subject pronoun would then look like (13) (see also Neeleman
 12 & Szendrői 2007: 682):⁷

13 (13) $[D^{\min/\max} +\text{pronominal}, -\text{anaphoric}, +\text{NOM}] \leftrightarrow \emptyset$
 14

15 (13) states that a $D^{\min/\max}$ with a feature combination that is characteristic
 16 of a pronominal subject can be realized as zero at the point where Vocabulary
 17 Insertion applies. Following Neeleman & Szendrői we may assume
 18 that (13) is universally available as the unmarked realization of weak/clitic
 19 pronominal forms. In other words, the setting $[+\text{pro-drop}]$ is taken to be
 20 the default parameter option.⁸ Of course, (13) must be complemented by
 21

22 6. See e.g. Uriagereka (1995), Cardinaletti & Starke (1999), Déchaine &
 23 Wiltschko (2002), Neeleman & Szendrői (2007), and Holmberg (2005) for
 24 more elaborate theories of the internal structure of pronominal elements.

25 7. As pointed out by Denis Delfitto to me, it is somewhat unexpected that a
 26 supposedly universal spell-out rule such as (12) makes reference to a language-
 27 specific feature such as $[\pm\text{NOM}]$. This shortcoming could perhaps be repaired
 28 by making use of more basic features, adopting an analysis in which tradi-
 29 tional case features are decomposed into a set of semantic primitives
 30 (Jakobson 1936 [1971], Bierwisch 1967). Alternatively, we may assume that
 31 the relevant case specification is in fact $[+\text{DEFAULT CASE}]$ (Denis Delfitto,
 32 p.c.), giving rise to null subjects in languages where the relevant default case
 33 is nominative, as for example in Bavarian. Furthermore, in languages that
 34 lack the category of case altogether (such as Chinese), we would then perhaps
 35 expect that (13) becomes available for all kinds of arguments, giving rise to
 36 ‘radical’ pro-drop (Neeleman & Szendrői 2007). At first sight, this seems to
 37 be borne out by the facts, but obviously, more research is necessary to sub-
 38 stantiate this claim. For expository reasons, however, I will stick to the case
 39 specification $[\pm\text{NOM}]$ in what follows.

40 8. This assumption is supported by the observation that cross-linguistically –
 even in non-null subject languages like English – children produce null sub-
 jects at an early stage of the acquisition process (cf. Hyams 1986 and the
 following quote taken from O’Grady 1997: 83, “[...] subject drop seems to
 be a universal feature of syntactic development [...]”).

1 insertion rules that determine the realization of overt pronouns. Note that
 2 the Vocabulary items that are associated with individual overt forms
 3 are usually much more specific than the very general rule (13), compare
 4 the following insertion rule that realizes the 3sg.masc subject clitic *a* in
 5 Bavarian:⁹

- 6 (14) [D^{min/max} +pronominal, –anaphoric, +NOM, –PSE, –PL, +MASC]
 7 ↔ /a/
 8

9 Under the assumption that the insertion of phonological material is gov-
 10 erned by conditions that favor more specified over less specified Vocabu-
 11 lary items (cf. the Elsewhere Condition of Kiparsky 1973, 1982, or Halle’s
 12 1997 Subset Principle),¹⁰ the availability of ‘overt’ forms such as (14) – all
 13 things being equal – blocks the null spell-out of weak pronouns (i.e., the
 14 relevant D^{min/max}), since the overt forms clearly realize more morpho-
 15 syntactic features than the Vocabulary item in (13).¹¹

16 Note that the availability of overt tonic pronouns does not prevent the
 17 application of (13), since they correspond to a different syntactic structure
 18 (by assumption, DP) and therefore do not compete with the null form for
 19 realizing pronominal D^{min/max} (note that this implies that Vocabulary
 20 Insertion may target not only terminal nodes, but also larger pieces of
 21 phrase structure, in the case at hand a whole DP node, cf. Weerman &
 22 Evers-Vermeul 2002, Neeleman & Szendrői 2007). That is, the availability
 23 of the full pronoun 2sg /du:/ does not interfere with the null realization of
 24

25 9. Here and below, I make use of the binary system of person features proposed
 26 in Halle (1997), which includes the features [\pm participant in speech event] and
 27 [\pm author in speech event] (henceforth [\pm PSE] and [\pm AUTH]).

28 10. *The Subset Principle* (Halle 1997: 428)

29 The phonological exponent of a Vocabulary item is inserted into a morpheme
 30 in the terminal string if the item matches all of a subset of the grammatical
 31 features specified in the terminal morpheme. Insertion does not take place if
 32 the Vocabulary item contains features not present in the morpheme. Where
 33 several Vocabulary items meet the conditions for insertion, the item matching
 34 the greatest number of features specified in the terminal morpheme must be
 chosen.

35 11. See Neeleman & Szendrői (2007) for an analysis of ‘radical’ pro-drop in lan-
 36 guages such as Chinese based on the assumption that both insertion rules may
 37 optionally apply in case they satisfy different parts of the Elsewhere Principle
 38 (‘realize more features’ vs. ‘realize bigger chunks of structure’). However, note
 39 that this analysis is based on the assumption that null forms correspond to
 40 phrasal categories (DP), contrasting with the view adopted here that clitic
 pronouns are significantly smaller structural units (i.e., D⁰s).

1 a pronominal 2sg $D^{\min/\max}$ (as a result of (13)) in Bavarian, since the
2 relevant insertion rules target different nodes in the syntactic structure:¹²

3 (15) $[\text{DP} +\text{pronominal}, -\text{anaphoric}, +\text{NOM}, -\text{AUTH}, +\text{PSE}, -\text{PL}] \leftrightarrow /du:/$
4

5 Under these assumptions, the development of partial referential pro-drop
6 in the history of Bavarian can be accounted for in terms of deblocking: At
7 the point where the continuing phonological erosion of subject clitics
8 made available a reanalysis of these forms as inflectional formatives, the
9 clitics affected by this process dropped out of the grammar, giving rise to
10 gaps in the paradigm of weak pronominal forms. The disappearance of
11 clitic forms caused the emergence of a previously blocked option, namely
12 the null spell-out of pronominal $D^{\min/\max}$ due to the application of the
13 (universally available) insertion rule (13). Under this approach, the con-
14 tent of the phonologically empty pronoun can be recovered via the par-
15 ticular agreement morphology associated with C in Bavarian, which
16 unambiguously signals person and number of the subject (see Weiß 2002
17 for a related proposal).¹³

18 This analysis makes an interesting prediction: The development of new
19 clitic forms that fill the relevant gaps in the paradigm as new phonological
20 realizations of pronominal $D^{\min/\max}$ is expected to lead to the loss of
21 (partial) pro-drop in the relevant contexts. Some evidence that this predic-
22 tion is correct comes from recent developments that have affected the
23 grammar of Colloquial Finnish (cf. Vainikka & Levy 1999).

24 Despite the fact that Standard Finnish exhibits a fully distinctive verbal
25 agreement paradigm (similar to Italian), null subjects are limited to first
26 and second person (examples taken from Holmberg 2005: 539):

27

28

29 12. See Fuß (2009) for a slightly different approach where it is assumed that
30 Vocabulary items related to strong forms cannot be inserted into a weak pro-
31 nominal D-head due to a feature mismatch (phonological exponents of strong
32 forms are specified for additional features such as [+deictic, +stress] which are
33 not part of the feature content of weak pronominal D).

34 13. Notice that the presence of complementizer agreement does not automatically
35 give rise to referential pro-drop. A case in point is West Flemish, which has
36 complementizer agreement in all persons and numbers (1sg, 1pl, 3pl: /-n/,
37 2sg, 2pl, 3sg: /-t/), but does not exhibit pro-drop (cf. Haegeman 1992). Under
38 the above assumptions, the absence of referential null subjects can be attrib-
39 uted to the fact that West Flemish has a complete series of clitic subject pro-
40 nouns, which blocks a null realization of pronominal $D^{\min/\max}$ (moreover,
note that the inflection associated with C is highly syncretic and therefore fails
to unambiguously identify a null subject).

- 1 (16) a. (*Minä*) *puhun englantia.*
 2 I speak-1SG English
 3
 4 b. (*Sinä*) *puhut englantia.*
 5 you speak-2SG English
 6
 7 c. *(*Hän*) *puhuu englantia.*
 8 he/she speak-3SG English
 9
 10 d. (*Me*) *puhumme englantia.*
 11 we speak-1PL English
 12
 13 e. (*Te*) *puhutte englantia.*
 14 you speak-2PL English
 15
 16 f. *(*He*) *puhuvat englantia.*
 17 they speak-3PL English

16 As noted by Vainikka & Levy (1999), Colloquial Finnish differs from the
 17 standard variety in that it requires the presence of overt pronouns (i.e.,
 18 pro-drop has been completely lost). Interestingly, this change is accom-
 19 panied by a set of further changes that affected the shape of pronouns
 20 (and the inventory of agreement markers):

21 *Table 2.* Pronouns and subject agreement in Colloquial Finnish¹⁴

	Pronouns	Agreement
23 1sg	<i>minä</i> → <i>mä</i>	<i>-n</i>
24 2sg	<i>sinä</i> → <i>sä</i>	<i>-t</i>
25 3sg	<i>hän</i> → <i>se</i>	<i>-V</i>
26 1pl	<i>me</i>	<i>-tAAn</i>
27 2pl	<i>te</i>	<i>-tte</i>
28 3pl	<i>he</i> → <i>ne</i>	<i>-V</i>

29 As can be gathered from Table 2, Colloquial Finnish has developed new
 30 reduced forms for 1sg and 2sg (in addition, the 3rd person pronouns 3sg
 31 *hän* and 3pl *he* are replaced by the relevant demonstrative forms, *se* and
 32

33
 34
 35
 36
 37
 38 14. “-V” represents an empty vowel that is similar to the preceding vowel and
 39 results in vowel lengthening. Capital “A” represents a vowel undergoing
 40 vowel harmony.

1 *ne*, respectively). The new shortened forms are generally unstressed (cf.
 2 e.g. Holmberg & Nikanne 2006: 5). Furthermore, the 1pl verbal agree-
 3 ment suffix has been replaced by *-tAAn*, originally an impersonal passive
 4 affix, and the 3rd person endings have fallen together. Vainikka & Levy
 5 suggest that these changes have disrupted the systematic similarities
 6 between 1st and 2nd person pronouns and agreement endings. As a con-
 7 sequence, the latter lose their argumental status, leading to the loss of
 8 (partial) pro-drop in Colloquial Finnish (see Koenenman 2007 for an
 9 alternative analysis that attributes the loss of pro-drop to the loss of a fully
 10 distinctive agreement paradigm).

11 However, it seems that the facts from Colloquial Finnish can possibly
 12 also be subsumed under the account of (partial) pro-drop developed
 13 above. More specifically, at least in the case of 1sg and 2sg, the loss of
 14 pro-drop can be directly related to the development of new weak forms
 15 that are more specified than a null spell-out of pronominal $D^{\min/\max}$ and
 16 therefore block the latter. Of course, further research is necessary to
 17 substantiate this conjecture, in particular concerning the status of the 1st
 18 and 2nd person plural forms, which at first sight seem to be identical to
 19 the relevant forms in the standard language. Interestingly, there are some
 20 observations concerning the system of pronouns in spoken Finnish that
 21 suggest that the inventory of forms is in fact larger than it appears at first
 22 sight. More to the point, it appears that in spoken Finnish, there are dif-
 23 ferences in vowel length that discriminate between stressed and unstressed
 24 forms (cf. e.g. the description of the vernacular spoken in Jyväskylä on
 25 <http://www.cc.jyu.fi/~tojan/rlang/finn2.htm>). Anne Vainikka (p.c.) informed
 26 me that in her dialect (the variety spoken in Tampere), there are three
 27 kinds of pronouns: (i) an unstressed variant with a short vowel (the default
 28 case), (ii) a stressed form with a long vowel, and (iii) an unstressed form
 29 with a long vowel. Thus, it seems that in the Tampere variety, a short
 30 vowel systematically indicates a special weak form that differs in vowel
 31 length from the stressed variant and can therefore be analyzed as an overt
 32 spell-out of weak pronominal $D^{\min/\max}$ (blocking the competing null real-
 33 ization). These observations concerning the emergence of separate series
 34 of clearly identifiable weak pronominal forms in spoken Finnish are sug-
 35 gestive that the particular approach to null subjects developed here might
 36 be on the right track.

37 In this section, I have proposed that in the history of Bavarian, partial
 38 pro-drop developed as a side-effect of the reanalysis of clitic forms that
 39 turned into agreement markers. It has been suggested that this change led
 40 to gaps in the paradigm of clitic pronouns, which made available a null

1 realization of pronominal $D^{\min/\max}$ in exactly those contexts where the
 2 reanalysis took place. In more formal terms, the emergence of null
 3 subjects has been analyzed in terms of deblocking of an underspecified
 4 Vocabulary item (i.e., $/\emptyset/$), the insertion of which was formerly blocked
 5 by the availability of more specified overt candidates.¹⁵ This analysis is
 6 supported by the observation that spoken Colloquial Finnish is character-
 7 ized by a loss of null subjects which can be traced back to the development
 8 of a new series of overt weak pronouns blocking a null-spell out of pro-
 9 nominal $D^{\min/\max}$ (still available in the standard language).

10 At this point, it is still unclear why the reanalysis of subject clitics in
 11 Bavarian did not affect all forms in a wholesale fashion (possibly giving
 12 rise to full-fledged pro-drop), but was rather confined to a subset of
 13 the paradigm. This question is addressed in more detail in the following
 14 section.

15 2.2. Morphological factors governing the reanalysis of pronouns

16 In Fuß (2005), it is argued that the limitations on the reanalysis of pro-
 17 nouns (and the concomitant rise of null subjects) that we have observed
 18 in Bavarian can be attributed to properties of the morphological com-
 19 ponent of grammar. More specifically, it is assumed that during language
 20 acquisition, the storage of inflectional markers is sensitive to blocking
 21 effects, in the sense that the learner scans the input for the most specified
 22 phonological realization of any given set of inflectional features. This
 23 assumption is related to the notion that the realization of inflectional
 24 features (syntactic terminal nodes) by phonological material involves a
 25 competition between Vocabulary items in which the most specified candi-
 26 date wins out over its competitors (the Subset Principle, Halle 1997). In
 27 Fuß (2005: 233) the relevant principle is phrased as follows:
 28
 29

30
 31 15. Of course, this section has left many important questions unaddressed. For
 32 example, more has to be said about the possible implications for the analysis
 33 of agreement-related pro-drop in languages like Italian, or the question of
 34 how we can account for the general non-availability of pro-drop in languages
 35 such as English. However, note that full pro-drop languages such as Italian or
 36 Spanish typically lack a series of clitic subject pronouns, which is expected
 37 under the approach advocated here. Furthermore, the behavior of non-null
 38 subject languages may possibly be accounted for under the assumption that
 39 languages like English lacks the syntactic category of pronominal D , that is,
 40 the output of the syntax does not contain a structure that can be realized by
 the insertion rule (13). I leave these matters for future research.

1 (17) *Blocking Principle (BP)*

2 If several appropriate phonological realizations of a given
 3 morpheme are attested in the Primary Linguistic Data, the form
 4 matching the greatest subset of the morphosyntactic features
 5 included in the morpheme must be chosen for storage in the lexicon.

6 The BP ensures that the development of new inflectional formatives can
 7 affect only weak/underspecified slots of the paradigm, replacing Vocabu-
 8 lary items that are not distinctive. Thus, the transition from clitic pro-
 9 nouns to agreement markers is licensed if (i) a clitic meets all necessary
 10 conditions for a reanalysis (advanced phonological erosion, adjacency to
 11 the finite verb etc.) and (ii) the resulting inflectional marker realizes a
 12 greater subset of the relevant agreement features than the existing agree-
 13 ment morphology. In what follows, it is shown that the limited distri-
 14 bution of complementizer agreement and pro-drop in Bavarian can be
 15 directly related to the workings of the BP. This is demonstrated below in
 16 some detail for the changes that affected the 2pl and 1pl forms.¹⁶

17 Taking a closer look at the developments that took place in Bavarian,
 18 it becomes apparent that the development of the new endings 2pl *-ts*, 1pl
 19 *-ma* served to eliminate syncretisms in the verbal agreement paradigm.
 20 The development of 2pl *-ts* (orig. 2pl ending *-t* + clitic 2pl *-(ē)s*) began in
 21 the 13th century (in Northern and Middle Bavarian, cf. Wiesinger 1989:
 22 72f.), eliminating syncretism of 3sg with 2pl:
 23

24 *Table 3. Verbal agreement paradigms (pres. indic.), 13th century Bavarian*

	Old paradigm	New paradigm
26 1sg	-Ø	-Ø
27 2sg	-st	-st
28 3sg	-t	-t
29 1pl	-an	-an
30 2pl	-t	-ts
31 3pl	-ant	-ant

32
 33
 34
 35
 36 16. For reasons of time and space, I do not go into the details of the earlier devel-
 37 opment giving rise to 2sg *-st*. In Fuß (2005: 235ff.), it is argued that the change
 38 in question was promoted by the fact that the resulting form was unambigu-
 39 ously specified for verbal mood (indicative) and therefore proceeded in line
 40 with the BP.

1 A look at the shaded paradigm cells reveals that prior to the reanalysis,
 2 the agreement suffixes for 3sg and 2pl were identical. The reanalysis of
 3 the 2pl clitic *-s* as an enlargement of the existing agreement formative 2pl
 4 *-t* removed this syncretism from the paradigm, giving rise to fully distinct-
 5 tive 2pl and 3sg markers.

6 In most Bavarian dialects, final *-t* was lost in the 3pl, leading to homo-
 7 phony of 3pl and 1pl forms (cf. Wiesinger 1989). As already discussed
 8 above, in some dialects, this syncretism was resolved by the develop-
 9 ment of 1pl *-ma* as a new agreement ending, compare the shaded lines
 10 in Table 3:

11
 12 *Table 4.* Verbal agreement paradigms (pres. indic.), late 18th century Bavarian

	Old paradigm	New paradigm
1sg	-Ø	-Ø
2sg	-st	-st
3sg	-t	-t
1pl	-an	-ma
2pl	-ts	-ts
3pl	-an	-an

23
 24 These observations suggest that a reanalysis of clitics as agreement markers
 25 is connected to the elimination of syncretisms in the paradigm. This is
 26 exactly what is expected if we adopt the assumption that the acquisi-
 27 tion (and grammaticalization) of inflectional morphology is governed by
 28 blocking constraints that operate during language acquisition and scan
 29 the input for the most specific realization of a given agreement morpheme.
 30 In the case at hand, the new agreement suffixes 2pl *-ts*, 1pl *-ma* satisfy the
 31 Blocking Principle due to the fact that they realize a greater subset of
 32 agreement features than their respective predecessors (cf. Fuß 2005 for
 33 details): First, *-ts* is specified for both person ([−AUTH, +PSE]) and number
 34 ([pl]), while the previous ending *-t* is the completely underspecified else-
 35 where form (which is used in both 3sg and 2pl contexts). Second, *-ma*
 36 signals person ([+AUTH]) and number ([pl]), while *-an* is merely specified
 37 for number ([+pl], occurring in 1pl and 3pl contexts). Thus, the BP makes
 38 available a diachronic explanation of why the rise of new agreement
 39 formatives – giving rise to referential pro-drop – took place in some
 40 contexts, but not in others.

1 What is the significance of these findings for the theory of pro-drop?
 2 First of all, the changes that affected Bavarian suggest that pro-drop does
 3 not necessarily develop in a general fashion for all persons and numbers
 4 (when the richness of verbal inflection crosses a certain threshold), con-
 5 trary to what is expected under standard assumptions. Instead, it appears
 6 that the development of null subjects is confined to contexts where the
 7 paradigm of clitic forms exhibits gaps due to the reanalysis of pronominal
 8 elements as agreement markers. More precisely, it appears that the emer-
 9 gence of (partial) pro-drop involves an intricate interaction between
 10 morphological blocking and deblocking: First, the development of null
 11 subjects is sensitive to properties of the series of weak/clitic pronouns
 12 (i.e., deblocking of the null spell-out via gaps in the paradigm), and
 13 second, it is indirectly related to properties of verbal agreement, namely
 14 via morphological mechanisms that promote a reanalysis of subject clitics
 15 if this results in more distinctive agreement markers (due to blocking
 16 effects that favor more specified Vocabulary items).

17 Note that these findings do not falsify common agreement-related
 18 theories of pro-drop entirely. They merely suggest that these approaches
 19 cannot be maintained in a strong way (e.g., positing that referential pro-
 20 drop is available *only* in the presence of a fully distinctive agreement para-
 21 digm). Rather, it seems that languages may develop restricted pro-drop
 22 properties linked to contexts where pronominal elements turn into agreement
 23 markers. In other words, an empirically more adequate generalization would
 24 be that full referential pro-drop in all persons and numbers requires rich
 25 verbal agreement, while partial pro-drop does not. Accordingly, it seems
 26 that the assumption that pro-drop operates in an all-or-nothing fashion must
 27 be abandoned. Still, we may wonder whether a typological change from
 28 [–pro-drop] to full fledged referential pro-drop can be the result of a whole-
 29 sale reanalysis of pronouns affecting larger parts of the agreement paradigm
 30 (either in one fell swoop or one item after the other). A possible case in point
 31 are recent developments that have been affecting the grammar of Colloquial
 32 French.

35 **3. Colloquial French**

37 It is a well-known fact that the grammar of Colloquial French exhibits a
 38 number of properties that sets it apart from the standard language. These
 39 differences also concern the realization of subject pronouns. Authors such
 40 as Roberge (1990), Friedemann (1997), or Fonseca-Greber (2000) argue

1 that Colloquial French exhibits an ongoing transition from a grammar
 2 without null subjects to a +pro-drop grammar.¹⁷ Similar to Bavarian,
 3 this development involves a change in which subject clitics turn into (pre-
 4 fixal) agreement markers. This transition is manifested by a set of proper-
 5 ties in which the subject ‘clitics’ of Colloquial French differ from those
 6 of the standard language (cf. Wartburg 1970, Ashby 1977, Harris 1978,
 7 Lambrecht 1981, Roberge 1990, Auger 1993, 1994a, Fonseca-Greber 2000,
 8 Fonseca-Greber & Waugh 2003, Gerlach 2002; however see de Cat 2005
 9 for an opposing view).¹⁸

10 First of all, the subject clitics are obligatory and cannot be replaced by
 11 full tonic pronouns (historically an oblique form).¹⁹ Furthermore, sentences
 12

13
 14 17. Apparently, a similar development has taken place in a number of Northern
 15 Italian dialects, cf. Vanelli (1987), Renzi (1992).

16 18. In the history of French, we can observe a cluster of changes involving
 17 pronouns, verbal agreement and the pro-drop property, which is cyclic in
 18 nature (Bally 1965, Guiraud 1968, Wartburg 1970, Ashby 1977, Harris 1978,
 19 Lambrecht 1981, Roberge 1990):

- 20 (i) distinctive verbal Agr/pro-drop (OFr.)
- 21 (ii) loss of Agr/loss of pro-drop (Middle Fr., 14th–16th century)
- 22 (iii) subject pronouns lose emphatic force and become clitics (15th–18th
 23 century)
- 24 (iv) clitics are reanalyzed as verbal agreement/rise of pro-drop (ongoing change)

25 Note that according to Wartburg (1970: 72) and Harris (1978: 113), the rise of
 26 overt pronouns (in Middle French) is not directly related to the loss of agree-
 27 ment morphology, but rather is linked to word order properties and prosodic
 28 factors (in fact, Harris claims that subject pronouns became obligatory prior
 29 to the erosion of the agreement system). In this paper, I will not go into the
 30 syntactic details of this historical development. Givón (1976) claims that the
 31 rise of new agreement markers in French involves a reanalysis of a former
 32 topic left dislocation structure. However, there are at least some indications
 33 that the relevant syntactic environment was *not* topic left dislocation, but
 34 rather a structure where a reinforcing full form (e.g. the oblique 1sg form
 35 *moi*) has been added to the non-stressable clitic for reasons of emphasis/focus
 36 (cf. Guiraud 1968, Wartburg 1970, Ashby 1977 for details).

37 19. Friedemann (1997) claims that doubling is merely optional in all non-standard
 38 varieties of French. However, Fonseca-Greber & Waugh (2003), examining a
 39 corpus of contemporary spoken French, observe that there are no cases where
 40 a tonic 1st or 2nd pronoun occurs without a clitic (i.e. doubling seems to
 be obligatory). With 3rd person forms, doubling is slightly less frequent (3sg
 clitics are present in 91.5% of the relevant cases, 3pl forms in 93.6%). A
 similar finding is reached by Gerlach (2002).

1 with apparent clitic doubling generally favor a basic, non-dislocated
2 interpretation:

3 *Colloquial French*

4 (18) a. (Moi) je porte la table.
5 me CLIT.1SG carry the table
6 'I carry the table.'

7
8 b. Moi *(je) porte la table.
9 me CLIT.1SG carry the table

10 'I carry the table.' (Gerlach 2002: 224)

11 In conjoined clauses, subject clitics must be repeated before each finite
12 verb (cf. Lambrecht 1981, Fonseca-Greber & Waugh 2003), while standard
13 French exhibits the typical elision of pronominal forms under identity
14 with the subject of the first conjunct clause:
15

16 *Standard French*

17 (19) Il mange et boit comme un cochon.
18 he eats and drinks like a pig

19 *Colloquial French*

20 (20) I mange et *(i) boit comme un cochon.
21 he eats and he drinks like a pig
22

23 The preverbal 'clitics' occupy a fixed position relative to the verb stem.
24 For example, they fail to undergo subject-verb inversion in matrix inter-
25 rogatives, in contrast to the subject clitics of the standard language. This
26 is shown in (21) and (22) (Friedemann 1997: 3f.):

27 *Standard French*

28 (21) Où est-il parti?
29 where is=he gone
30 'Where did he go to?'

31 *Colloquial French*

32 (22) Où il-est parti?
33 where he-is gone
34 'Where did he go to?'

35
36
37 These properties are commonly taken to suggest that the 'clitics' are
38 in fact better analyzed as instances of preverbal agreement markers. As
39 a consequence, clauses without a subject double must be analyzed as
40 instances of pro-drop.

1 However, there are some indications that the transition from pronouns
2 to agreement markers is not yet fully completed. Several authors have
3 noted that quantified expressions, indefinite NPs, and wh-phrases cannot
4 occur in a doubling construction similar to (18) above (cf. e.g. Roberge
5 1990: 95, Friedemann 1997: 125):

6 *Colloquial French*

- 7 (23) **Personne il a parlé.*
8 nobody he has spoken
9 ‘Nobody spoke.’

11 *Colloquial French*

- 12 (24) **Un ami il est toujours là.*
13 a friend he is always there
14 ‘A friend is always there.’

16 *Colloquial French*

- 17 (25) **Qui il aime la tarte?*
18 who he likes the pie
19 ‘Who likes the pie?’

21 However, examples similar to (23) and (24) are well-formed in other non-
22 standard varieties of French (Picard, Pied-Noir), which suggests that in
23 the latter, the grammaticalization of prefixal agreement is more advanced
24 (cf. Roberge 1990, Friedemann 1997, Auger 1994b, 2003):

- 25 (26) *Personne i(l) sait qui c’est leur mère.*
26 nobody he knows who that-is their mother
27 ‘Nobody knows who is their mother.’

28 (Pied-Noir, Friedemann 1997: 125)

- 30 (27) *Un homme il vient.*
31 a man he comes

(Pied-Noir, Roberge 1990: 97)

- 32 (28) *Chacun il a sa chimère.*
33 everybody he has his spleen
34 ‘Everybody has a spleen.’

35 (Picard, Friedemann 1997: 125)

36 While doubling of wh-phrases is ruled in Pied-Noir (Roberge 1990: 120), a
37 default 3sg.masc clitic is present in wh-questions in Picard; furthermore,
38 subject-relatives exhibit resumptive subject clitics (Auger 1994b, 2003):

- 1 (29) *tchèche qu' il a dit qu' i folloit nin finir?*
 2 who that he has said that it had-to of-it to-finish
 3 'Who said we had to put an end to it?' (Picard, Auger 2003: 5)
 4
- 5 (30) *inne grosse fême éd Tours qu' al étoait rouge...*
 6 a fat woman from Tours that she was red
 7 'a fat woman from Tours who was red...' (Picard, Auger 2003: 5)

8 Moreover, corpus studies carried out by Fonseca-Greber (2000) and
 9 Fonseca-Greber & Waugh (2003) show that doubling is extending to
 10 contexts with quantified NPs in 'normal' Colloquial French as well.

11 To sum up, it appears that different non-standard varieties exhibit dif-
 12 ferent stages of a development in which clitics turn into prefixal agreement
 13 markers, eventually giving rise to a grammar with null subjects. To the
 14 extent that the reanalysis is completed, the evidence available to us sug-
 15 gests that the emergence of pro-drop in Colloquial French can possibly
 16 be treated on a par with the developments in Bavarian, that is, in terms
 17 of the deblocking of a null spell-out in those contexts where the reanalysis
 18 of clitic forms has given rise to gaps in the paradigm of weak/clitic forms
 19 (note that the resulting system of agreement marking is sufficiently distinc-
 20 tive to recover the content of the missing argument).

21 Again, the changes affecting the status of the subject clitics can be
 22 related to properties of the existing agreement paradigm. It appears that
 23 there are significant differences between the individual subject clitics. Most
 24 importantly, it seems that not all subject clitics are obligatorily present
 25 (cf. Gerlach 2002):

26
 27 *Table 5.* Presence of subject clitics in Colloquial French

28 1sg	obligatory
29 2sg	obligatory
30 3sg	optional
31 1pl	obligatory (<i>on</i>)
32 2pl	optional
33 3pl	optional

34
 35
 36
 37
 38 Doubling of full forms is obligatory in the contexts of 1sg, 2sg, and 1pl
 39 (where *on* has replaced *nous* in the spoken language), while it is merely
 40 optional in the other contexts. Thus, the grammaticalization process lags

1 behind for 3rd person forms and 2pl. Interestingly, there seems to be some
 2 relation between the obligatory presence of the ‘clitic’ forms and proper-
 3 ties of the existing suffixal agreement morphology. Apparently, at least in
 4 non-3rd person contexts, clitics are obligatory in case the verbal inflection
 5 is underspecified for subject agreement features (Gerlach 2002: 225f.):

6
 7 *Table 6.* Subject agreement in written/spoken French

	Written language	Phonetic form
1sg	porte	[pɔʁt]
2sg	portes	[pɔʁt]
3sg	porte	[pɔʁt]
1pl	(on) porte	[pɔʁt]
	(nous) portons	not used in Colloquial French
2pl	portez	[pɔʁ'te:]
3pl	portent	[pɔʁt]

19
 20 Note that only the 2pl ending /-e:/ signals person and number of the sub-
 21 ject; elsewhere we find the completely underspecified zero ending. This can
 22 be linked to the distribution of clitics in the following way (Gerlach 2002):

23 (31) *Verbal agreement and the distribution of subject clitics*

24 In Colloquial French, subject clitics are obligatory only

- 25 (a) in non-third person contexts and
 26 (b) if they serve to express ϕ -features not marked by the existing
 27 suffixal agreement morphology.
 28

29 Similar to Bavarian, the distribution of the obligatory agreement marking
 30 forms can be attributed to the workings of the Blocking Principle: The
 31 grammaticalization of new agreement markers (and the rise of the null
 32 subjects) is triggered only in contexts where the new inflections are clearly
 33 more specified than the existing elsewhere marker / \emptyset /:
 34

- 35 (32) a. [+AUTH, +PSE, -PL] ↔ /zə/ (1sg)
 36 b. [-AUTH, +PSE, -PL] ↔ /tʏ/ (2sg)
 37 c. [+AUTH, -PSE, + PL] ↔ /ʃ/ (1pl)
 38
 39
 40

1 In those varieties where the 2pl clitic is still merely optional, its different
 2 behavior can be attributed to the fact that the existing agreement mor-
 3 phology is still distinctive, which hinders a reanalysis of the subject
 4 clitic. However, note that based on a study of a corpus of spoken French,
 5 Fonseca-Greber & Waugh (2003) claim that the 2pl subject clitic *vous* has
 6 also developed into a fully morphologized agreement marker. This can
 7 possibly explained as the result of analogical extension on the model of
 8 the other former clitics.

9 A more serious question concerns the status of 3rd person forms
 10 (3sg.fem *elle*, 3sg.masc *il*, 3pl.fem *elles*, 3pl.masc *ils*). At first sight, they
 11 should qualify for a reanalysis as agreement markers from the viewpoint
 12 of the Blocking Principle. Obviously, they are specified for person, number
 13 and gender, so they should meet the condition that they be more distinc-
 14 tive than the existing zero marker. However, in what follows, it is argued
 15 that upon closer inspection, the 3rd person forms turn out to be less speci-
 16 fied than they appear to be.

17 To begin with, we will take a second look at the putative person speci-
 18 fication of the relevant pronouns. It has repeatedly been pointed out in the
 19 literature that ‘3rd person’ should actually be treated as the ‘non-person’,
 20 that is, 3rd person forms are better analyzed as being underspecified for
 21 person features (cf. Benveniste 1950, 1966, Halle 1997, Noyer 1997, Harley
 22 and Ritter 2002, Cysouw 2003, among many others; however, see Trommer
 23 2006 for an opposing view). If this view turns out to be correct, the 3rd
 24 person forms fail to be more specified than the existing zero marker with
 25 respect to the category of person. Accordingly, at least in this respect, they
 26 do not qualify as more distinctive forms that may outrank the existing
 27 markers due to blocking effects.²⁰

28
 29
 30 20. Note that cross-linguistically, 3rd person verbal agreement is much less com-
 31 mon than 1st and 2nd person agreement. See Fuß (2005) for an explanation of
 32 this fact in terms of the Blocking Principle, making use of the assumption that
 33 3rd person forms are inherently underspecified for [person]. As pointed out by
 34 one anonymous reviewer, the general differences (w.r.t. grammaticalization
 35 processes) between 1st/2nd person on the one hand and 3rd person on the
 36 other are also often attributed to the fact that speaker and hearer are the
 37 most salient participants in a speech event (cf. e.g. Mithun 1991, Ariel 2000).
 38 Under this perspective, it is assumed that 1st and 2nd person pronouns are
 39 more readily reducible to unstressable clitics, affixes, and eventually zero since
 40 the reference of these pronominal forms can be easily deduced from the imme-
 diate discourse situation (in contrast to 3rd person forms, which denote a
 ‘more remote’ referent).

1 What about the number specification? On the face of it, the apparent
 2 contrast between 3sg *il/elle* and 3pl *ils/elles* should suffice to mark the
 3 clitics as more specified than the existing zero marker. Note, however,
 4 that the number marking of the plural forms is only perceivable if the
 5 verb following the clitic begins with a vowel. Hence, the number marking
 6 of the 3rd person forms is actually less salient than it appears at first sight.
 7 In some varieties, the visibility of number marking is further weakened by
 8 the tendency to use a reduced form *i(l)* for all 3rd person contexts (some-
 9 times accompanied by 3pl *eux*, cf. Ashby 1977, Fonseca-Greber & Waugh
 10 2003: 102):²¹

11 (33) *Mes petites cousines eux i-savaient...*
 12 my little cousins.FEM 3PL.MASC 3-knew

13 ‘My little cousins knew...’ (Fonseca-Greber & Waugh 2003: 102)

15 So it appears that the set of contexts where the number marking on the
 16 3rd person pronouns is really visible is actually quite small, presumably
 17 too small to count as robust evidence for the purposes of the Blocking
 18 Principle.

19 Finally, let us turn to gender. Interestingly, we can observe that there is
 20 a tendency in Colloquial French to use *i(l)* as a general marker of 3rd
 21 person that can also be used in 3sg.fem contexts. This is illustrated by the
 22 following examples taken from Wartburg (1970: 74) and Ashby (1977:
 23 68), respectively. It seems likely that the use of masculine forms in non-
 24 masculine contexts has obscured the gender distinctions originally signaled
 25 by the subject clitics.²²

26 (34) a. *Ma femme il est venu.*
 27 my wife he is come

28 ‘My wife came.’

29 b. *Ma soeur i’chante.*
 30 my sister 3-sing

31 ‘My sister is singing.’

34
 35 21. Similarly, the forms for 3sg and 3pl clitics have merged in Picard and Pied-Noir
 36 French (e.g. Pied-Noir 3sg.masc.sg, 3sg.masc.pl. /i/, 3sg.fem.sg, 3sg.fem.pl /ɛl/),
 cf. Roberge (1990: 191) on Pied Noir and Auger (2003: 5) on Picard.

37 22. Cf. Fuß (2005: 255f.) for an alternative explanation (based on the assumption
 38 that ϕ -features are organized into a feature geometry) according to which
 39 the grammaticalization of gender agreement requires the presence of number
 40 marking for all persons.

1 Thus, we can conclude that the 3rd person clitics are actually less distinc-
 2 tive than it appears at first sight. This impedes their being reanalyzed as
 3 agreement markers (due to their reduced visibililty to the workings of the
 4 Blocking Principle). The fact that the 3rd person forms have not yet fully
 5 grammaticalized into agreement markers in Colloquial French is pre-
 6 sumably also the reason why doubling of quantified expressions (which
 7 are usually 3rd person NPs) is still ruled out – in contrast to other non-
 8 standard varieties such as Pied-Noir or Picard.

9 Summing up, it has been shown that Colloquial French (and other non-
 10 standard varieties of French) exhibits an ongoing change in which pre-
 11 verbal subject clitics turn into prefixal agreement markers, giving rise to
 12 pro-drop properties formerly absent in the grammar. Again, we witness a
 13 development in which pro-drop does not evolve at once for all persons
 14 and numbers. Rather, the rise of null subjects is intimately related to the
 15 reanalysis of individual subject clitics as agreement markers, which can
 16 be analyzed in terms of deblocking of the null spell-out due to the ongoing
 17 erosion and eventual loss of clitic forms. Similar to Bavarian, the transi-
 18 tion of clitics into agreement markers is linked to properties of the existing
 19 agreement paradigm (new markers are more specified). When the change
 20 is eventually completed for all persons and numbers, this may give rise to
 21 full agreement-related referential pro-drop in (future) Colloquial French.
 22 In the next section, we will examine an alternative path to pro-drop in
 23 all persons and numbers that crucially does not depend on properties of
 24 verbal agreement.

25
 26

27 **4. Alternative paths toward null arguments in creole languages**

28

29 In the theoretical literature on creole languages, it is occasionally claimed
 30 that creoles (similar to pidgins) generally lack null pronouns (cf. e.g.
 31 Muysken 1981, Roberts 1999, among others). However, there is actually
 32 quite some work on creoles that directly contradicts this claim. To men-
 33 tion but a few, Kouwenberg (1990) and Kouwenberg & Muysken (1995:
 34 215f.) show that Papiamentu exhibits at least non-referential empty pro-
 35 nouns (in impersonal constructions and with weather verbs), DeGraff
 36 (1993) argues for the existence of pro-drop in Haitian Creole, and Veenstra
 37 (1994) claims that Saramaccan has developed agreement-related referential
 38 pro-drop due to the reanalysis of pronominal subjects, which is reminiscent
 39 of the changes discussed in section 2 and 3 above. The following discussion
 40 draws heavily on Lipski (2001), who provides a detailed overview of the

1 evolution of null arguments in Romance-based creoles. Taking a brief
 2 look at the development of discourse-oriented pro-drop in Mauritian
 3 Creole and Philippine Creole Spanish, it is argued that in these creoles,
 4 null arguments evolved on the model of substrate influence from (and/or
 5 intense contact with) Austronesian languages.

6
 7 4.1. Mauritian Creole

8 Mauritian Creole (MC) is a French-based creole that developed after
 9 slaves from different parts of Africa and Madagascar were brought to
 10 Mauritius roughly between 1715 and 1810 (when the slave trade was
 11 abolished). Present-day MC exhibits a variety of pro-drop phenomena
 12 (Syea 1993, Adone 1994a, 1994b). First, it exhibits null subjects in im-
 13 personal constructions, where the missing argument corresponds to an
 14 expletive (or quasi-argument), or an indefinite (generic) pronoun:

15
 16 (35) *Ti fer fre yer.*
 17 TNS make cold yesterday
 18 ‘[It] was cold yesterday.’ (Adone 1994a: 114)

19
 20 (36) *Lôtâ, ti degrad karo kan ar pios.*
 21 long ago TNS cleared canefields with a pickaxe.
 22 ‘Long ago, [people] cleared cane fields with a pickaxe.’
 23 (Baker and Corne 1982: 89f.)

24 In addition, MC allows referential null subjects under certain conditions.
 25 Apparently, a referential (or, definite) interpretation of the null element
 26 is only possible if the identity of the missing argument can be readily
 27 recovered from the immediate discourse context, typically in answers to
 28 questions, as in (37):²³

29
 30 (37) Question: *ki Pyer pe fer?*
 31 what Peter ASP do
 32 ‘What is Peter doing?’
 33
 34 Answer: *pe petir labutik.*
 35 asp paint shop
 36 ‘(He) is painting the shop.’ (Syea 1993: 93)

37
 38
 39 23. Adone (1994a) notes that MC also exhibits referential null objects, albeit to a
 40 lesser extent.

1 However, according to Adone (1994a, 1994b), null subjects may also
 2 occur in contexts other than answers, as long as the missing argument
 3 can be identified with a prominent discourse topic, mostly the speaker
 4 (see also Syea 1993: 93). But, as shown by (40), 3rd person subjects may
 5 also be left out. That is, there is no principled contrast between different
 6 persons, in contrast to what has been observed for Bavarian and Non-
 7 Standard French above.²⁴

8 (38) *Pu return dañ peis bieñto.*
 9 MOD return in country soon
 10 ‘[I] will go back to the country soon.’ (Adone 1994b: 33)

12 (39) *Pu repar sa sime la dimeñ.*
 13 MOD repair DET road DET tomorrow
 14 ‘[We] will repair this road tomorrow.’ (Adone 1994a: 114)

16 (40) *Ti boykot en paket kreol dañ travay.*
 17 TNS boycott QUA many creole in work
 18 ‘[He] boycotted many creoles in his work.’ (Adone 1994b: 33)

19
 20 If there is no appropriate antecedent available in the discourse context, the
 21 missing argument is interpreted as a specific indefinite (such as English
 22 *someone*), cf. Syea (1993: 93):

23 (41) *fin koke Pyer so loto.*
 24 ASP steal Peter his car
 25 ‘(Someone) stole Peter’s car.’ (Syea 1993: 92)

27 There is general agreement that the licensing and interpretation of null
 28 subjects is dependent on the presence of preverbal Tense/Mood/Aspect
 29 (TMA) particles, which presumably realize an inflectional head (*pu*, *fin*,
 30 and *ti* in the above examples).²⁵ In the absence of an overt TMA particle,
 31 a missing subject can only be interpreted as a generic indefinite pronoun
 32 (such as English *one* or the generic use of *people*, see also (36) above),
 33 cf. Syea (1993: 94):

34
 35 24. Note that null subjects may only refer to humans in MC (Syea 1993: 93).

36 25. Mauritian Creole has an elaborate system of TMA markers, which is made up
 37 of six basic markers (*ti* [+anterior/past], *pe* [progressive], *pu* [definite future],
 38 *ava* [indefinite future], *fin* [completive], and *fek* [immediate completive]) that
 39 can be used to express at least twelve fine-grained temporal and aspectual
 40 differences, see Adone (1994a: ch. 6) for details.

- 1 (42) *van puasō dā bazar.*
 2 sell fish in market
 3 ‘Fish is sold in the market.’ (Syea 1993: 92)

4
 5 If a generic interpretation is not possible, an overt pronoun must be used
 6 in the absence of a TMA marker (Syea 1993: 94f.):

- 7 (43) a. **van puasō.*
 8 sell fish
 9
 10 b. *li van puasō.*
 11 he sell fish
 12 ‘He sells fish.’

13 Accordingly, we may conclude that in MC, the licensing of referential null
 14 subjects is connected to the presence of an overt TMA marker (i.e., an
 15 overt realization of INFL).²⁶ The missing argument is identified in relation
 16 to a prominent discourse topic. In more formal terms, this can be analyzed
 17 in terms of a coindexation relation between the null element and a dis-
 18 course topic, presumably mediated by an abstract operator that occupies
 19 a left-peripheral A'-position (cf. Adone 1994a). Furthermore, we ask
 20 whether the empty category can be subsumed under the analysis proposed
 21 above, that is, whether it can be analyzed as a null realization of a regular
 22 weak/clitic pronoun. Unfortunately, it is not clear to me whether MC
 23 exhibits overt clitic pronouns (which may block a null spell-out) or not.
 24 However, there is another piece of evidence that suggests that we do not
 25 deal with null pronouns here. In embedded clauses, we can observe a
 26 curious restriction on the interpretation of null arguments. As shown in
 27 (44), an embedded null subject cannot be coreferential with the subject of
 28 the matrix clause:

31 26. The hypothesis that referential null subjects are licensed by the TMA markers
 32 is supported by facts from language acquisition. Adone (1994a) identifies three
 33 stages in the acquisition of null subjects in Mauritian Creole. At the first stage,
 34 children use a lot of empty subjects (>60%), often in contexts where they are
 35 not allowed in the target grammar. The second stage shows a sharp decline in
 36 the frequency of null subjects (between 10% and 30%). This change is accom-
 37 panied by the rise of various TMA markers. The third stage is characterized
 38 by a slight increase of null subjects and a more systematic use of TMA markers.
 39 Interestingly, from this stage on, null subjects and TMA markers systematically
 40 co-occur, that is, the children have correctly acquired the licensing conditions
 on null subjects of the target grammar.

- 1 (44) **Zañ_i dir [Ø_i fin al lakaz]*.
 2 John say ASP go home
 3 ‘John_i says (he_i) has gone home.’ (Adone 1994a: 114)

4 If the missing argument were a null spell-out of a regular pronoun, we
 5 would expect that it can be coreferential with the matrix subject (in fact,
 6 that is the preferred interpretation of the English translation of (44)). We
 7 can therefore conclude that the empty category must be another kind of
 8 element. Adone (1994a) argues that it is a variable bound by an abstract
 9 operator that has moved into the left periphery of the embedded clause.
 10 As a result, the ungrammaticality of (44) can be attributed to a violation
 11 of Principle C of the Binding theory. However, as pointed out by Lipski
 12 (2001), it is perhaps more adequate to analyze the null argument as a
 13 null constant (*nc*, Rizzi 1994). According to Rizzi (1994), *nc* is an empty
 14 category with the properties [–pronominal, –anaphoric, –variable]. It
 15 differs from a *wh*-trace (i.e., a variable) in that it does not range over a
 16 set of values; rather, its interpretation is fixed to an antecedent given in
 17 the immediate discourse context (presumably mediated via an abstract
 18 operator). Hence, it is also a referential expression and may not be
 19 A-bound, ruling out its use in embedded contexts such as (44).

20 Turning now to the historical development of null arguments in MC,
 21 we can observe that early stages of MC²⁷ exhibited empty expletives, but
 22 lacked the kind of referential null subjects found in the present-day lan-
 23 guage (cf. Adone 1994b). This suggests that the rise of pro-drop is a rather
 24 recent development. In other words, it appears that the pro-drop proper-
 25 ties in question did not develop during the original genesis of MC, but are
 26 rather the result of a later change. Pro-drop in MC cannot be attributed to
 27 its lexifier language (17th and 18th century French), cf. Adone (1994b).
 28 Furthermore, Lipski (2001) claims that it cannot be the result of substrate
 29 influence, since the relevant languages (several Bantu languages and
 30 Malagasy) do not exhibit null subjects. However, in what follows, I will
 31 argue that the presence of null subjects in MC can in fact be linked to
 32 (substrate) influence from Malagasy, contra Lipski (2001). To substantiate
 33 this claim, we will first review some basic properties of this language.

34 Malagasy is an Austronesian language with basic VOS word order. It is
 35 characterized by the voice system typical of many Austronesian languages
 36 (cf. e.g. Keenan 1976 on Malagasy, Schachter 1976, 1990, Kroeger 1993

37
 38
 39 27. The creolization of MC took place roughly between 1730 and 1770, cf. Baker
 40 and Corne (1986).

1 on Tagalog): distinctive verbal morphology triggers the promotion of one
 2 of the verb's arguments to clause-final position. The relevant affixes on the
 3 verb indicate the thematic role of the promoted argument. The promoted
 4 argument is usually interpreted as a familiarity topic (in this way, the
 5 voice system serves to implement topic continuity in a discourse, cf. e.g.
 6 Hopper 1979, Cooreman, Fox & Givón 1988). In the following examples,
 7 the promoted argument and the relevant parts of voice morphology are
 8 marked by underlining (AT = actor topic; TT = theme topic; CT =
 9 circumstantial topic):

- 10 (45) a. Man-asa ny lamba amin' ny savony ny reny.
 11 AT-wash the clothes with the soap the mother
 12
 13 b. Sasa-n' ny reny amin' ny savony ny lamba.
 14 wash-TT the mother with the soap the clothes
 15
 16 c. An-asa-n' ny reny ny lamba ny savony.
 17 CT-wash-CT the mother the clothes the soap
 18 'The mother washes the clothes with the soap.'
 19 (Sabel 2003: 229f.)

20 Importantly, the special voice system seems to make available a particular
 21 type of discourse-oriented pro-drop. As shown in (46), the promoted argu-
 22 ment (but no other argument) can be left out in Malagasy (Pearson 2005
 23 and Hyams et al. 2006: 21):

- 24 (46) a. Mamangy an'i Tenda (izy).
 25 AT.visit OBJ-DET Tenda he
 26 '(He) is visiting Tenda.'
 27
 28 b. Mamangy *(azy) i Naivo.
 29 AT.visit him DET Naivo
 30 'Naivo is visiting (him).'
 31
 32 c. Vangian' i Naivo (izy).
 33 TT.visit DET Naivo he
 34 '(Him), Naivo is visiting.'
 35
 36 d. Vangian-*(-ny) i Tenda.
 37 TT.visit he DET Tenda
 38 'Tenda, (he) is visiting.'

40

1 In other words, it appears that the null subjects of Malagasy (i) are
 2 licensed by a special morphology (the voice morphology on the verb
 3 which indicates the thematic role of the missing argument) and (ii)
 4 are identified in relation to an element which figures prominently in the
 5 discourse. Note that this is reminiscent of the conditions on referen-
 6 tial pro-drop in MC, where definite null subjects (i) are licensed by a
 7 special inflectional morphology (TMA markers) and (ii) are identified in
 8 relation to a prominent discourse topic (e.g., subject of a previous clause,
 9 speaker etc.).

10 Bearing these similarities in mind, one might entertain the idea that the
 11 null arguments in MC evolved on the model of the particular type of
 12 discourse-oriented pro-drop illustrated in (46) (it is a well-known fact that
 13 creoles often exhibit strong structural similarities with their substrate
 14 languages, rather than with their lexifier languages, cf. e.g. Crowley 1992:
 15 268). The pro-drop properties found in MC can then possibly be attributed
 16 to substrate influence from Malagasy in the following way.²⁸ When learners
 17 of MC continued to be confronted with Malagasy (or, rather, Malagasy-
 18 influenced) input data that exhibited null arguments, they adapted the
 19 licensing mechanism (via distinctive verbal morphology that indicates the
 20 thematic role of the missing argument) to the impoverished inflectional
 21 system of a creole language. In the absence of an elaborate voice system,
 22 the TMA markers became associated with the formal licensing of pro-
 23 drop. In a similar way, the mechanisms of identifying the relevant null
 24 element (presumably a null constant) carried over from Malagasy to
 25 MC, with the missing argument being interpreted as coreferent with the
 26 most prominent discourse topic. Note that in Malagasy this process is
 27 facilitated by structural means (by promoting the discourse topic to
 28 clause-final position, together with the distinctive voice morphology),
 29 while MC has to resort to conditions that limit the search space to the
 30 immediate discourse context (the speaker, or the subject of the previous
 31 clause, most often a question). In the next section, it is shown that a
 32 related development can be observed in Chabacano, a Spanish-based
 33 creole spoken in the Philippines.

34
 35 28. See Lipski (2001) for an alternative explanation based on the assumption that
 36 null subjects initially developed in embedded contexts via the reanalysis of a
 37 variable bound by a left-dislocated element (*e* in (i)):

38 (i) [*sa madam la*]_i *mo rapel e_i ti vini.*
 39 this lady DET I remember TNS come
 40 'This lady, I remember she came.' (Adone 1994a: 115)

4.2. Chabacano

'Chabacano' is a cover term for a number of different Spanish-based creoles spoken in the Philippines. The most well-known variety of Chabacano is Zamboangueño, the local vernacular of Zamboanga City in southwestern Mindanao. Other areas where Chabacano is (or was) wide-spread include the Manila Bay, in particular Cavite and Ternate. The following description of Chabacano is based on Lipski (2001) (see also Steinkrüger 2004, 2006).

As many other creoles, Chabacano lacks verbal inflection apart from a small class of prefixal TMA markers.²⁹ However, it exhibits two remarkable traits that are quite rare among creoles, namely basic VSO order and (referential) null subjects, as illustrated by the following examples:

(47) *Null expletive and indefinite subjects*

- a. *Ya tiene hente na mundo.*
TNS be people in world

'(There) were already people in the world.' (Lipski 2001: 2)

- b. *Ta siña kanila "English".*
TNS/ASP teach them English

'(One) teaches them English.' (Lipski 2001: 6)

- c. *Ya tira konele.*
TNS shoot him

'He was shot.' (lit., '(One) shot him.') (Lipski 2001: 6)

(48) *Null referential subjects*

- a. *Ya man-engkwentro konele na tyangge.*
TNS meet her in market

'(I) met her in the market.'

- b. *Ya abla kon el muher...*
TNS say to the woman

'(He) said to the woman...'

- c. *Despues ay anda na eskwela.*
then MOD go to school

'Then (we) would go to school.'

29. The set of TMA markers consists of *ta* (imperfective), *ya* (perfective), *ay/di* (irrealis), and *kabá* (completive). See Steinkrüger (2006) for details.

- 1 d. *Tiene mas di nobenta años, pero fuerte pa.*
 2 be more than ninety years but strong still
 3 ‘(They) are more than ninety years old,
 4 but (they) are still strong.’ (Lipski 2001: 4f.)

5
 6 Similar to MC, null subjects are available for all persons and numbers.³⁰
 7 Another important parallel is the fact that the missing argument must be
 8 identified in relation to an element in the immediate discourse context,
 9 compare the following quote taken from Lipski (2001: 3):

10 “In each case, the referent of the null subject is recoverable from the preced-
 11 ing context, usually being the same as the last-occurring overt pronoun. The
 12 usage of null subjects is most common in response to a question, with
 13 appropriate shift of pronominal reference.”
 14

15 However, in contrast to MC, it seems that the TMA-markers are not
 16 instrumental in the licensing of referential null subjects, as indicated by
 17 (47d), where the missing argument can only be interpreted as referring to
 18 a certain group of people (despite the lack of a preverbal TMA marker).

19 According to Lipski (2001), Chabacano exhibits a restriction on the
 20 interpretation of embedded null subjects that resembles the relevant con-
 21 straint in MC: An embedded null subject may not be coreferential with
 22 the (overt) subject of the matrix clause when the latter occurs in immediate
 23 postverbal position (i.e., the canonical subject position). Again, this can be
 24 taken to indicate that the empty category cannot be a null pronoun, but
 25 must rather be analyzed as a null constant bound by an abstract (dis-
 26 course) operator occupying a left-peripheral A’-position.³¹

27 It is generally assumed that a number of (morpho-) syntactic properties
 28 of Chabacano (such as basic VSO order, aspects of the inventory of pro-
 29

30 Lipski (2001) shows that Chabacano exhibits null direct objects as well.

31 Lipski (2001) claims that coreference of an embedded null subject and a
 32 matrix subject becomes possible if the latter is fronted to a preverbal (clause-
 33 initial) position (similar to Tagalog, fronting is used to focus or (re-) introduce
 34 a discourse referent in Chabacano). He then proposes an analysis according to
 35 which an embedded null subject (which is not treated as *nc*) must be c-
 36 commanded by the matrix subject, which by assumption is only possible if
 37 the latter is fronted to preverbal (clause-initial) position. However, it remains
 38 unclear why the relevant licensing condition cannot also be fulfilled by matrix
 39 subjects in postverbal position (from which they should also be able to c-
 40 command the lower null subject). Furthermore, it is doubtful whether the
 example cited by Lipski in favor of this claim (p. 4f., his example (3ah)) actually

1 nouns and the system of marking grammatical functions, cf. Steinkrüger
 2 2006 and Barrios 2006) can be traced back to substrate influence of and,
 3 more recently, language contact with the neighboring Austronesian lan-
 4 guages, in particular Tagalog and Cebuano. Moreover, Lipski (2001) sug-
 5 gests that the kind of discourse-oriented pro-drop exhibited by Chabacano
 6 is also due to influence from Tagalog and Cebuano. Both these languages
 7 exhibit the typical Austronesian voice system (cf. Schachter 1976, 1990,
 8 Kroeger 1993), that is, the promoted argument's thematic role is indicated
 9 by voice morphology on the verb. In contrast to Malagasy, however, the
 10 promoted argument does not occupy a designated position, but is marked
 11 by (case) particles (*ang* for common nouns and *si* for personal names),
 12 compare the following examples from Tagalog:³²

- 13 (49) a. *B-um-ili ang lalake ng isda sa tindahan.*
 14 buy.AT SUBJ man OBJ fish OBL shop
 15 'The man bought fish in a/the shop.'
 16
 17 b. *B-in-ili ng lalake ang isda sa tindahan.*
 18 buy.TT OBJ man SUBJ fish OBL shop
 19 'A/the man bought the fish in a/the shop.'
 20
 21 c. *B-in-ili -an ng lalake ng isda ang tindahan.*
 22 buy.LOC OBJ man OBJ fish SUBJ shop
 23 'A/the man bought fish in the shop.'

25 shows what it is supposed to show. More precisely, (i) seems to be rather a
 26 paratactic structure without real embedding. Therefore, the missing arguments
 27 are actually not embedded subjects, and the possibility of coreference with
 28 'those kids' is compatible with an analysis of the empty categories in terms of
 29 null constants (which must be A-free):

- 30 (i) *Aquel mga bata sabe man-comprehend, entendé kosa ki*
 31 those kids know understand understand what they
 32 *ta lé, y sabe eskribi.*
 33 TNS/ASP read and know write
 34 'Those kids know how to understand, (they) understand what they read,
 35 and (they) know how to write.'

36 32. For expository reasons I labeled the relevant case particles SUBJ=subject,
 37 OBJ=object, and OBL=oblique. Note that this is slightly misleading, since the
 38 *ang*-marked NP arguably does not represent the grammatical subject of the
 39 clause, but rather is to be identified with the discourse topic (cf. e.g. Schachter
 40 1990).

1 The *ang/si* marked phrase is normally interpreted as definite and familiar
 2 (and as the, continuing topic of the discourse, cf. e.g. Hopper 1979,
 3 McGinn 1988, and Cooreman, Fox & Givón 1988).³³ As in Malagasy,
 4 the promoted argument (marked by *ang/si*) can be left out in Tagalog,
 5 giving rise to a similar type of discourse-oriented pro-drop (McGinn
 6 1988: 278), where the null realization of a given argument seems to be
 7 licensed by morphological means that serve to identify the thematic role
 8 of the missing element:

9 (50) *B-um-ili (siya) ng isda sa tindahan.*
 10 buy.AT (SUBJ-he) OBJ fish OBL shop
 11 ‘(He) bought fish in a/the shop.’
 12

13 Given that Chabacano ‘borrowed’ quite a number of grammatical traits
 14 from its Austronesian neighbors, it is quite possible that the null arguments
 15 found in Chabacano also developed on the model of the kind of discourse-
 16 oriented pro-drop that we can observe in Tagalog (and Cebuano), where
 17 the licensing (and identification) of the argument gap is linked to the voice
 18 morphology indicating the argument’s thematic role. This conjecture is
 19 further supported by the observation that Chabacano and MC exhibit
 20 similar restrictions on the identification of null pronouns (subject of the
 21 previous clause, speaker etc.) via the immediate discourse context. As
 22 noted above, this is possibly related to the absence of structural means to
 23 mark the discourse topic (i.e., the typical Austronesian voice system) in
 24 the creole language.

25 In contrast to MC, however, it is apparently not possible to link the
 26 licensing of referential null subjects to the presence of TMA markers in
 27 Chabacano (cf. (47d) above). This raises the question of whether there is
 28 an alternative structural means in Chabacano that can take up the role
 29 of the Austronesian voice morphology in the licensing/identification of
 30 null arguments. A possible candidate that comes to mind is the set of pre-
 31 nominal markers (or, case particles) that are used to identify the grammat-
 32 ical function of the verb’s arguments in Chabacano (*si* for agents/subjects
 33 that are personal names, *kon* for direct objects, *para di* for datives, *na* for
 34 locations; furthermore note that there are different series of pronouns for
 35 subjects/agents and objects, the latter carrying the marker *kon*, e.g. *konele*
 36 ‘him/her’). Due to the fact that Chabacano has no grammatical function
 37

38 _____
 39 33. Non-topic themes are interpreted as indefinite, while other non-topic argu-
 40 ments may be interpreted as definite or indefinite, cf. Schachter (1990: 940f.).

1 changing devices such as passive, these markers do not only indicate the
2 grammatical function of the element they modify, but also (at least
3 roughly) its thematic role. In this way, they fulfill a function which is quite
4 similar to the combined effects of voice morphology and case particles in
5 languages like Tagalog (i.e., indicating the thematic role of a given argu-
6 ment). One could suppose that this suffices to license a null realization of
7 arguments (as a null constant) in Chabacano, which mimics the relevant
8 licensing conditions that hold in Tagalog/Cebuano, albeit with the im-
9 poverished inflectional means of a creole language (see also Lipski 2001).

12 **5. Conclusions**

14 This paper has discussed different historical paths along which languages
15 can develop pro-drop phenomena, taking into account the rise of agreement-
16 related pro-drop of the ‘European’ type as well as the emergence of
17 discourse-oriented pro-drop in two selected creole languages.

18 First, drawing on data from Bavarian and Non-Standard French, it has
19 been shown that referential null subjects may develop as a side-effect of
20 the transition from pronouns to agreement markers. Adopting a Late
21 Insertion approach, it has been argued that the specifics of this change
22 can be analyzed in terms of an intricate interplay between blocking and
23 deblocking phenomena in morphology. It has been demonstrated that the
24 reanalysis of clitic pronouns as agreement affixes is governed by blocking
25 effects which require new agreement markers to be more specified than
26 existing inflectional markers (which accounts for the restrictions on the
27 contexts where this change applies). The concomitant emergence of pro-
28 drop has been analyzed as an instance of deblocking, where a (by assump-
29 tion universally available) null realization of weak pronouns becomes
30 available due the loss of a more specific spell-out (the former clitic forms).
31 The relevant observations suggest that agreement-related null subjects do
32 not develop in an across-the-board fashion, but are initially restricted to
33 those contexts where pronouns turn into agreement markers, contradicting
34 the relevant diachronic predictions of standard approaches to (agreement-
35 related) pro-drop (note that when the development of new inflections is
36 completed for all persons and numbers, this may give the impression that
37 full referential pro-drop is linked to rich verbal agreement, as is pre-
38 sumably the case in present-day Non-Standard French).

39 An alternative path toward pro-drop can be observed in Mauritian
40 Creole (MC) and Chabacano (Philippine Spanish Creole), which devel-

1 oped a form of discourse-oriented pro-drop due to language contact with
 2 Austronesian languages (Malagasy and Tagalog, respectively). Appar-
 3 ently, the relevant type of discourse-oriented pro-drop develops for all
 4 persons and numbers at once (including objects), with a preference for
 5 arguments that can readily be recovered from the immediate discourse
 6 context (again giving rise to a special role of 1st person pronouns), in
 7 contrast to null subjects which arise due to the grammaticalization of
 8 agreement morphology. It has been argued that in the creoles under inves-
 9 tigation, null arguments emerged when learners adapted the licensing/
 10 identification mechanisms of the source languages to the impoverished
 11 inflectional means typical of creole languages. Furthermore, the observed
 12 parallels between MC and Chabacano suggest that the kind of pro-drop
 13 characteristic of Malagasy and Tagalog, where the topic/null argument is
 14 marked by structural means (via verbal voice morphology), represents a
 15 very salient feature which might be more easily adopted under language
 16 contact than other forms of pro-drop.

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