

1 Evidence for abstract Case in Bantu

3 1. Introduction: parameterising Case

4 The Minimalist Program has inherited from Government and Binding some
5 version of the Case Filter (Chomsky, 1981; Vergnaud, 1977): even in languages
6 lacking morphological case, it is assumed that overt DPs need to be Case-
7 licensed. This abstract Case is semi-independent of the many different surface
8 manifestations of morphological case and is taken to account for the distribution
9 of (overt) DPs as well as phenomena such as A-movement. In Minimalism, Case is
10 often reduced to an Agree relation (Chomsky 2000),¹ where nominals enter the
11 derivation with an uninterpretable Case feature [uCase] that needs to be valued
12 in the course of the derivation. Diercks (2012) critically evaluates the
13 universality of Case theory in his paper ‘Parameterizing Case: evidence from
14 Bantu’. If Case is a feature like any other grammatical feature, Diercks (2012)
15 reasons, languages can vary as to whether they have this feature, just like
16 languages can optionally select other features (like mood or evidentiality).
17 Logically, this leads to the parameterization of Case, where some languages do
18 and some do not select [uCase] in their inventories:

- 19
20 (1) Case Parameter:
21 Uninterpretable Case features are/are not present in a language

22
23 His proposal for parameterization is inspired by Perez’s [Harford] (1985) claim
24 that Case is inoperative in Bantu languages. As Bantu languages do not have
25 morphological case marking on nouns, the question of abstract Case has not been
26 addressed much in Bantu linguistics, but Diercks (2012: 254) makes the claim
27 explicit by arguing that “Bantu languages do not have uninterpretable Case
28 features in their feature inventories” (Diercks 2012: 254).

- 29
30 (2) Case Parameter setting for Bantu:
31 Uninterpretable Case features are not present

32
33 Diercks examines 4 phenomena where Case may be expected to play a role,
34 showing that the Bantu languages that he studies do not display the expected
35 behavior if Case licensing were required for every overt DP. These phenomena
36 can be taken as diagnostics for abstract Case in linguistic theory (cf. Sheehan &
37 van der Wal 2014), but should equally be seen as cues for the language learner to
38 discover the licensing mechanism. A major question for linguists as well as
39 acquirers is thus what kind of evidence is needed for postulating a system of
40 abstract Case in a particular language.

41 This paper addresses that question by following up on a footnote in
42 Diercks (2012: 254), which is a qualification on the Case parameter setting for
43 Bantu (2): “such macroparametric claims must be tempered by allowing
44 individual language differences”. Such microvariation is indeed found, as shown
45 by the data from Matengo and Makhuwa in this paper. The four diagnostics
46 applied by Diercks (2012) show that Matengo and Makhuwa pattern different

¹ There is a debate about how Case should be treated in a Minimalist theory of syntax (cf. Chomsky 2000, Pesetsky & Torrego 2001). In this paper I shall leave these to one side and keep to Diercks’ (2012) interpretation of Case.

1 from the languages discussed by Diercks, and a novel diagnostic also indicates
2 that in these two languages there may be enough evidence in the input for
3 language learners (and linguists) to detect a licensing system of abstract Case.

4 The paper is organized as follows. Section 2 discusses how morphological
5 marking on nominals, which one may think of as morphological case marking, is
6 unrelated to abstract Case in Bantu languages. Section 3 addresses the link
7 between (subject) agreement and (nominative) Case, which is absent in the
8 languages Diercks studies, but consistent in Matengo and Makhuwa. A third
9 diagnostic used by Diercks is the occurrence of overt subject DPs in non-finite
10 clauses, where nominative Case is not licensed, which is discussed in section 4.
11 This section also addresses the issue of which aspect of finiteness might be
12 related to Case marking. Section 5 introduces an additional diagnostic which
13 concerns the licensing of an overt agent DP in a passive clause. Finally, section 6
14 addresses [uCase] as an activity feature, relating to the phenomenon of
15 'hyperactivity' (Carstens 2011) where DPs move through multiple Case
16 positions. For the last four diagnostics, Matengo and Makhuwa are shown to
17 behave differently from the languages Diercks (2012) analyses, displaying
18 evidence for the presence of Case. The conclusion is that these languages, unlike
19 the languages Diercks (2012) analyses, plausibly exhibit enough concrete
20 evidence to postulate an abstract Case system, for the language learner as well as
21 for the linguist.

23 2. Absence of morphological case in Bantu

24 The first diagnostic Diercks (2012) applies is the presence/absence of
25 morphological case. Even if there may crosslinguistically not be a one-to-one
26 mapping between abstract Case and morphological case realization, there must
27 be *some* relation (Legate, 2008), hence morphological case should be indicative
28 of abstract Case. However, this diagnostic only holds in one direction: if a
29 language shows morphological case, it is assumed to have abstract Case (or else
30 the morphological component has nothing to spell out), but the absence of
31 morphological case is compatible with either presence or absence of abstract
32 Case.

33 The Bantu languages “display no morphological case –that is, noun
34 phrases appear in the same form whether they are a subject, a primary object, a
35 secondary object, or an oblique” (Diercks 2012:355). This is illustrated in **Error!**
36 **Reference source not found.**) where the noun *omuwala* ‘girl’ has the same form
37 in subject and object function.

- 38
- 39 (3) a. Y-à-lábà òmùwàlà. Luganda (JE15)²
40 1SM-PST-see 1.girl
41 ‘He saw the girl.’
42
- 43 b. Òmùwàlà y-à-mú-làbà.
44 1.girl 1SM-PST-1OM-see
45 ‘The girl saw him.’
46

² The Bantu languages are conventionally classified by a letter and a number, the letters referring to geographical zones, according to the updated Guthrie (1948) classification by Maho (2009).

1 Bantu languages do not show any case morphology with a function comparable
 2 to the case systems we know from Latin, German, or Turkish. While this forms no
 3 conclusive evidence, the absence of morphological case marking on nouns is at
 4 least compatible with the absence of Case.

5 Although it is generally true in Bantu languages that DPs do not take
 6 morphologically different forms depending on their syntactic role, there are
 7 three areas where morphological case might appear to be present. It is important
 8 to discuss these here, as they form potential evidence for the presence of Case,
 9 for the linguist as well as the acquirer. The first two (locative nouns and tone
 10 cases) are shown to not be related to abstract Case licensing at all, whereas the
 11 third (augmentless nouns) potentially is, but not across the board.

12 A first distinction in nominal morphology, mentioned by Diercks (2012:
 13 255) in a footnote, are the locative noun classes, which are numbered 16, 17 and
 14 18. In many Bantu languages locative nouns are formed by a process of nominal
 15 derivation consisting of adding a prefix of locative class 16/17/18, either
 16 replacing the original noun class prefix or adding the latter prefix onto the
 17 already prefixed noun, as in (4).

19	(4) a.	n-te	ku-n-te	Lusoga
20		9-cow	17-9-cow	
21		'a/the cow'	'on a/the cow'	
22				
23	b.	n-gira	mu-n-gira	
24		9-road	18-9-road	
25		'a/the road'	'on a/the road'	
26				

27 The crucial fact here is that these locatives function as DPs, rather than PPs,³
 28 which would make them similar to locative case in languages like Czech or
 29 Turkish. The difference, however, is that the locative marking can remain
 30 present, regardless of the syntactic function. That is, the locative marking
 31 remains the same whether the locative is an adverb (5a) or licensed as an
 32 argument by the applicative (5b), and whether it is the object (6 with object
 33 marking) or subject of a sentence (5c). This indicates that the locative classes are
 34 locative genders rather than locative cases (Bresnan, 1991).

36	(5) a.	Ndi-na-gw-a	mu-nyumba.	Chichewa (N31)
37		1SG.SM-PAST-fall-FS	18-9.house	
38		'I fell in the house.'		

³ See Marten (2010) for the reanalysis of locative markers as prepositions in some southern Bantu languages; compare (i, DP) and (ii, PP):

Herero (R30, Marten 2006: 98)

(i)	Mò-ngándá	mw-á-hití	òvá-ndù.	[DP mo [NP nganda]]
	18-9.house	18sm-PST-enter	2-people	
	'Into the house entered (the) people.'			

Zulu (S42, Buell 2007: 108)

(ii)	Ku-lezi	zindlu	ku-hlala	abantu	abakhubazekile.	[PP ku [DP lezi [NP zindlu]]
	17-10.these	10.houses	EXPL-stay	2.people	2.handicapped	
	'In these houses live handicapped people.'					

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b. Ndi-na-gw-el-a mu-nyumba.
1SG.SM-PAST-fall-APPL-FS 18-9.house
'I fell into the house.'

c. Mu-nyumba mu-na-yera.
19-9.house 18SM-PAST-white
'Inside the house is clean.' (Ron Simango, p.c.)

(6) Ndí-ma-ku-kóndá ku San José. Chichewa
1SG.SM-PRES.HAB-17OM-love 17 San Jose
'I like (it) (in) San José.' (Bresnan 1991:58)

A second area where morphological case might be suspected are the so-called "tone cases" found in some Western Bantu languages (Blanchon, 1998, 1999; Kavari et al., 2012; Schadeberg, 1986). In this system, the tonal nominal inflection varies according to different syntactic contexts, as illustrated in (7): the tone pattern on *otjihavero* 'chair' starts with LL in the Default case (glossed with 'D', used for the subject in (7a)) but with LH for the Complement case (glossed with 'C', used for the object in (7b)).

(7) a. Òtjì-hávèrò tj-á ù. Otjherero (R30)
7D-chair 7SM-PAST fall.down
'The chair fell down.'

b. Vé múná òtjì-hávèrò
2SM.HAB see 7C-chair
'They usually see the chair.' (Kavari et al. 2012: 318)

This appears to correspond to nominative and accusative case (König, 2008: 205-222). However, it can be shown that the tone cases are currently not unambiguously related to grammatical function (though languages may develop this function, see König 2008). I mention three of the many arguments to distinguish tone cases in Otjherero from more familiar systems of case marking. First, the use of the complement or default pattern is in the majority of sentences determined by the tense (8).

(8) a. *habitual: complement case*
Vé múná òví-kùryá (*òvì-kùryá). Otjherero
2SM.HAB see 8C-food 8D-food
'They usually see food.'

b. *present: default case*
Má-vé múnú òvì-kùryá (*òvì-kùryá).
PRES-2SM see 8D-food2 8C-food
'They are seeing food.' (Kavari et al. 2012: 321-322)

1 Second, there is a choice between the default and complement case in the
 2 negative factive habitual which is determined by information structural factors,
 3 i.e. the complement form indicates focus on the postverbal element (9a).

4
 5 (9) a. Ká-tù hòng-à òvá-nátjè.
 6 NEG-1PL.SM teach-FS 2C-children
 7 ‘We never taught *children* (but possibly other people).’

8
 9 b. Ká-tù hòng-à òvá-nátjè.
 10 NEG-1PL.SM teach-FS 2D-children
 11 ‘We do not professionally teach children (nor any other people).’
 12 (Kavari et al. 2012: 325)

13
 14 Third, not only arguments but also adverbs are marked by these same cases, as
 15 shown in (10). For further argumentation and an analysis of the tone case system
 16 in Otjiherero, see Kavari et al. (2012).

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 18 (10) a. Mbì ryá òn-yámà òn-gùróvà.
 19 1SG.SM.HAB eat 9C-meat 9D-evening
 20 ‘I usually eat meat in the evening.’

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 22 b. Òn-gùróvà mbì ryá òn-yámà.
 23 9D-evening 1SG.SM.HAB eat 9C-meat
 24 ‘In the evening I usually eat meat’

25
 26 c. Mbì ryá òn-gùróvà.
 27 SM1SG.HAB eat 9C-evening
 28 ‘I usually eat in the evening.’ (Kavari et al. 2012: 330)

29
 30 A third morphological distinction that could be related to case is the variation
 31 between nouns with and without an augment or pre-prefix, e.g. *u-muntu* vs.
 32 *muntu*, respectively. (Halpert, 2012a, to appear) suggests that in Zulu the
 33 augment serves to license DPs.⁴ She shows that augmentless DPs have a very
 34 restricted distribution similar to that of bare NPs in Romance languages:
 35 augmentless nominals are licensed under negation, and only within the vP
 36 domain. In (11), the augmentless form *muntu* is only allowed in a vP-internal
 37 position, whether in the lower (a) or higher (c) clause.

38
 39 (11) a. A-ngi-sho-ngo [ukuthi ku-fik-e muntu].
 40 NEG-1SG.SM-say-NEG.PAST that 17SM-arrive-PERF 1.person
 41 ‘I didn’t say that anyone came.’

42
 43 b. * A-ngi-fun-i [ukuthi muntu a-pheke iqanda].
 44 NEG-1SG.SM-want-NEG that 1.person 1SM.SJ-cook 5.egg

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 4 Note that this is the opposite of Baker (2003) who suggests that augmentless nouns in Kinande do *not* need to be Case licensed.

1 c. A-*ngi-fun-i* *muntu_i* [*ukuthi t_i a-pheke iqanda*].
 2 NEG-1SG.SM-want-NEG 1.person that 1SM.SJ-cook 5.egg
 3 ‘I don’t want anyone to cook an egg.’ (Zulu, Halpert 2012)

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 5 Since augmentless nouns are only ever allowed in negative contexts in Zulu (and
 6 Xhosa and Kinande, see (Carstens and Mletshe, 2013) and (Progovac, 1993),
 7 respectively), it remains an open question whether this provides enough
 8 evidence to postulate the presence of an abstract Case licensing mechanism in
 9 the language (especially since Zulu does not show evidence for Case according to
 10 the other diagnostics).⁵

11 We conclude that there is no consistent case marking for Bantu languages
 12 overall, and that the potential relevance of the discussed
 13 morphological/tonological distinctions to structural Case should be established
 14 on a language-particular basis. Furthermore, the absence of other morphological
 15 case marking in Bantu languages is compatible with the absence of [uCase]
 16 features.

17
 18 **3. Dissociation of Case and Agree**

19 Diercks’ (2012) second diagnostic are the subject agreement patterns in Bantu
 20 languages. If Case is not marked on the noun (the dependent), it may be marked
 21 on the Case-licensing verb (the head -cf. Nichols 1986, 1992). The obligatory
 22 subject agreement on the verb in Bantu languages is thus a good candidate to
 23 correlate with licensing case.⁶ If this is so, subject agreement is expected to
 24 always be with the nominative DP (assuming T to value nominative), whether in
 25 canonical active SVO sentences or in other word orders. This can be illustrated in
 26 English: in an expletive construction like (12b), the verb agrees with the
 27 postverbal nominative plural subject. The same is found in the locative inversion
 28 construction in (12c).

- 29
 30 (12) a. The guests appeared at the entrance of the college.
 31 b. There were guests in the dining hall.
 32 c. At the table were sitting some of the invited guests.

33
 34 In a language without Case, Diercks argues, we would not expect there to be a
 35 similarly strict relation between agreement and the subject. Indeed, it is well
 36 known that ‘subject’ agreement is more flexible in many Bantu languages.
 37 Agreement on the verb is expressed by a prefix, referred to as the subject
 38 marker. In a canonical SVO sentence, this subject marker agrees in noun class
 39 with the preverbal subject, but in subject inversion constructions we find
 40 different agreement patterns cross-linguistically (Marten and van der Wal, To
 41 appear). For example, in Default Agreement Inversion, the subject marker on the
 42 verb can be in a default class: class 17 *go-* in (13) and not class 2 *ba-* of the
 43 postverbal subject.

44

⁵ Note that the absence of the augment functions differently in different Bantu languages and has been related to specificity and focus (see a.o. Asiimwe 2014; De Blois 1970, Hyman & Katamba 1993, Namyalo & van der Wal in preparation).

⁶ There are many (case-marking) languages where agreement does not correlate with Case, specifically also in ergative languages (Moravcsik 1978, Woolford 2006 and others).

- 1 (13) a. Basadi ba-opela mo-kereke-ng. Tswana (S31)
 2 2.women 2SM-sing 18-9.church-LOC
 3 'The women are singing in the church.'
 4
 5 b. Mokereke-ng go-opela basadi.
 6 18-9.church-LOC 17SM-sing 2.women
 7 'in the church there are women singing'
 8
 9 c. Go-opela basadi.
 10 17SM-sing 2.women
 11 'There are women singing.' (Creissels, 2011, adapted)
 12

13 In Locative Inversion the subject marker agrees with the preverbal locative DP,
 14 as in (14).

- 15
 16 (14) a. A-lendô-wo a-na-bwérá ku-mudzi. Chichewa
 17 2-visitor-2.DEM 2-RECPST-come 17-3.village
 18 'Those visitors came to the village.'
 19
 20 b. Ku-mu-dzi ku-na-bwérá a-lendô-wo.
 21 17-3-village 17SM-PST-come 2-visitor-2.DEM
 22 'To the village came those visitors.'
 23
 24 c. Pa-m-chenga p-a-ima nkhandwe.
 25 16-3-sand 16SM-PERF-stand 9fox
 26 'On the sand is standing the fox.' (Bresnan and Kanerva, 1989)
 27

28 If we conclude that it is not nominative Case that determines the agreement on
 29 the verb, what is the probe sensitive to? The Default Agreement and Locative
 30 Inversion constructions are part of a more general and widespread pattern in
 31 Bantu languages (Baker, 2008; Carstens, 2005; Collins, 2004; Diercks, 2011;
 32 Kinyalolo, 1991) where the subject marker agrees with the element occupying
 33 the preverbal position, whether a locative, a patient (15), or an instrument (16).⁷
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- 35 (15) Ibitabo bi-á-som-ye Yohani. Kirundi (JD62)
 36 8.books 8SM-PST-read-PERF 1.John
 37 'JOHN read the books.' (Lit. 'the books read John') (Ndayiragije, 1999)
 38

- 39 (16) a. U-John u-dla nge-sipunu. Zulu (S42)
 40 1a-1a.John 1aSM-eat with-7.spoon
 41 'John is eating with the spoon.' (Zeller, 2012)
 42
 43 b. I-sipunu si-dla u-John.
 44 7-7.spoon 7SM-eat 1a-1a.John
 'John is using the spoon to eat.' (Lit. 'The spoon is eating John.')

⁷ These subject inversion constructions express focus on the postverbal logical subject. Inversion constructions can also express theticity.

1 The generalization for these constructions is that agreement is independent of
2 Case, but related to the element occupying the preverbal position. Two similar
3 analyses have been proposed to account for these patterns in agreement.

4 The first suggests that the head responsible for subject agreement not only
5 has uninterpretable ϕ features which probe for a matching goal, but also has a
6 movement trigger (EPP feature) which is responsible for moving the agreed-with
7 goal to the specifier of that head. This is proposed by Collins (2004: 116) as the
8 'Agreement Parameter'.

9
10 (17) Agreement Parameter:

11 Let Agree (X, YP), where X contains the probe (uninterpretable phi-features)
12 and YP contains the goal, then X has an EPP feature that is satisfied by YP.
13

14 Carstens (2005) phrases a very similar analysis in slightly different terms and
15 proposes the Feature-linking Parameter, which links Agree to either EPP or Case.
16

17 (18) Feature-linking Parameter:

18 $u\phi$ has EPP as a subfeature in Bantu (and Case in Indo-European
19 languages)
20

21 A second implementation of the idea is put forward by Baker (2008). He
22 proposes an analysis in which languages are parameterized in two ways. The
23 first is whether agreement is 'downward' (with a c-commanded element) or
24 'upward' (with an element c-commanding the agreeing head), the initial
25 movement being triggered independently (for example by topicalization). A
26 second parameter then asks whether agreement is linked to Case or not.
27

28 (19) The Direction of Agreement Parameter:

29 F agrees with DP/NP only if DP/NP asymmetrically c-commands F.

30 (20) The Case-Dependency of Agreement Parameter:

31 F agrees with DP/NP only if F values the Case feature of DP/NP or vice
32 versa.
33

34 According to Baker, Bantu languages are set 'yes/no', which means agreement is
35 'upward' and independent of Case.⁸

36 These proposals all derive the patterns illustrated above, where agreement
37 is determined by the element that is eventually in the linearly preverbal and
38 structurally higher position, be that because of an EPP feature associated with
39 Agree or because of some independent motivation for movement. However,
40 assuming that subject agreement indicates (nominative) Case valuation, and
41 noting that the logical subject in subject inversion constructions is not agreed
42 with, these analyses have difficulties accounting for how the postverbal logical
43 subject is Case licensed in inversion constructions. Under the Case Filter, the
44 postverbal logical subject is left with an unvalued uninterpretable [uCase]
45 feature, which should cause the derivation to crash. As the inverted subject does
46 not behave like an object (Bresnan and Kanerva 1989, Morimoto 2006), e.g. it

8 A next question is what determines the goal of agreement in these approaches, which we come back to later in this section.

1 cannot be object-marked on the verb, we cannot assume a full reversal of
2 grammatical functions.

3 Various proposals have been made to account for the Case valuation of
4 the postverbal logical subject which are discussed by Diercks (2012: 256) and
5 briefly summarized here. Belletti (1988) suggests that the inverted subject of an
6 unaccusative verb is assigned partitive Case -hence the indefinite (and new
7 information focus) interpretation. Carstens (2005) proposes an analysis in which
8 T agrees twice: the first time overtly with the element that it moves for EPP
9 reasons (e.g., the locative in LI), and the second time covertly with the inverted
10 subject to value its Case. Another alternative is Baker (2003), who claims that
11 DPs without the so-called augment do not need Case licensing, thus making an
12 exception which predicts different behavior dependent on morphology, and
13 which seems to hold for Kinande.⁹ Diercks (2012), on the other hand, proposes
14 what is in some way the easiest solution: there is no Case, so the logical subject
15 can stay in situ and there is no need for it to “be licensed”.

16 Under these analyses, we would not expect the subject marker to agree
17 with a postverbal element. Nevertheless, this is what is found in various other
18 Bantu languages. Apart from Default Agreement Inversion and Locative
19 Inversion, there is another quite wide-spread inversion construction, which I call
20 Agreeing Inversion. This construction is encountered as the only or primary
21 inversion construction in Ngoni (N122), Dciriku (K332), Ndengereko (P11),
22 Mwera (P22), Ngindo (P14), Ndendeule (N101), Matengo (N13), Matuumbi
23 (P13), Makwe (G402), Makonde (P20), Makhuwa (P31), Koti (P311) and
24 Shangaci (P312).¹⁰ In this paper, I base my analysis mainly on Makhuwa and
25 Matengo, as these are the languages I have the clearest data for. Unlike in the
26 other subject inversion constructions, in Agreeing Inversion the subject marker
27 is determined by the subject, regardless of the subject’s position, as illustrated in
28 (21) and (22).

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30 (21) Yaámbi aida nyóóka. Makwe (G402)
31 now 1SM.come.PRI 1.snake
32 ‘And then a snake came.’

33
34 (22) Unkupúúna upéépo.
35 11SM.PROG.blow 11.wind
36 ‘The wind is blowing.’ (Devos, 2004: 316)

37
38 There is an important distinction to make between agreeing inversion and
39 afterthought constructions: “In both these constructions, the verb shows
40 agreement with the subject. However, in contrast to agreeing inversion, in
41 afterthought constructions the subject DP is discourse-old and known from the
42 context” (Marten and van der Wal, to appear). The right-dislocated status of the
43 subject in afterthought constructions –in contrast to the in situ position in
44 agreeing inversion constructions– can be shown in various formal properties,

⁹ As mentioned in footnote 5, this is the opposite of what Halpert (2012) proposes for Case checking of augmentless nominals in Zulu.

¹⁰ In other languages Agreeing Inversion is also possible, but it is one of multiple inversion constructions used in these languages (see the overview in Marten & van der Wal to appear). I leave detailed research into these cooccurring inversion constructions for further research.

1 involving tone patterns (23a vs. b), phonological phrasing, and the conjoint or
 2 disjoint form of the verb (see Marten and Van der Wal, to appear). These
 3 properties all indicate that there is a close relation between verb and following
 4 subject in inversion constructions (23a), which is absent for right dislocation
 5 (23b).

- 6
 7 (23) a. P-è-yá òvá-éndà. [Otjiherero]
 8 16SM-PST-come 2C-visitor
 9 ‘Visitors came.’/‘There came visitors.’
 10
 11 b. V-è-yá, òvâ-éndà.
 12 2SM-PST-come 2D-visitor
 13 ‘They came, the visitors.’ (Marten 2011: 801)
 14

15 The Agreeing Inversion constructions are thus crucially different from right
 16 dislocation constructions. In addition, it can be shown for Matengo that the
 17 postverbal subject is in situ in the verb phrase –see van der Wal (2012) for
 18 arguments involving scope and phonological phrasing.

19 Furthermore, these languages do not have locative inversion like the
 20 Bantu languages described by Baker, Carstens and Diercks: the subject marker
 21 cannot agree with the preverbal locative, but must seek agreement with the
 22 postverbal subject.¹¹

- 23
 24 (24) a. Aléttó a-náá-phíyá wakisírwa. Makuwa¹² (P31)
 25 2.guests 2SM-PRES.DJ-arrive 16.island
 26 ‘The guests arrive on the island.’
 27
 28 b. Wakisírwá a-náá-phíyá alétto.
 29 16.island 2SM-PRES.DJ-arrive 2.guests
 30 ‘On the island arrive guests.’
 31
 32 c. * Wakisírwá wa-náá-phíyá alétto.
 33 16.island 16SM-PRES.DJ-arrive 2.guests
 34 int. ‘On the island arrive guests.’
 35
 36 (25) a. Máhimba ga-a-tam-iti mu-kítengu. Matengo¹³ (N13)
 37 6.lions 6SM-PAST-live-PERF 18-7.forest
 38 ‘Lions lived in the forest.’
 39

¹¹ It should be pointed out that this is independent of the ability of locative DPs to trigger agreement, as shown in (iii) for Makuwa, where the locative *mpaani mu* ‘inside’ is the subject of ‘be dirty’.

(iii) mpááni mú n-núú-nanar-átsa
 18.inside 18.DEM.I 18SM-PERF.PERS-mess.up-PLUR
 ‘inside here is all messy’

¹² The Makuwa data were collected during fieldwork on Ilha de Moçambique in the north of Mozambique in 2005, 2006 and 2008 as part of the NWO project ‘Word order and morphological marking in Bantu’. Examples without tone marking were subsequently elicited over the telephone.

¹³ The Matengo data come from elicitation sessions with a native speaker in London and email correspondence with other speakers unless the source literature is indicated.

- 1 b. *Mu-kítengu mu-a-tam-iti máhimba.
 2 18-7.forest 18SM-PAST-live-PERF 6.lions
 3 Intended: ‘In the forest lions lived.’
 4
 5 c. Mu-kítengu ga-a-tam-iti máhimba.
 6 18-7.forest 6SM-PAST-live-PERF 6.lions
 7 ‘In the forest lions lived.’ (Yoneda, 2011: 770)
 8

9 Similarly, impersonal (passive and active) constructions do not have default
 10 agreement, but the subject marker still agrees with the subject, as illustrated for
 11 Makhuwa in (26).

- 12
 13 (26) (Wa-phiy-aly-ááwé owaání,) tsi-nú-mwíyy-íyá
 14 16-arrive-PERF.REL-POSS.1home 10SM-PERF.PERS-steal-PASS
 15 étthú tsootéene.
 16 10.things 10-all
 17 ‘(When she arrived home,) everything was stolen’
 18 (literally: ‘were stolen all things’)
 19

20 And likewise, there is no default agreement for weather verbs in Matengo.

- 21
 22 (27) Ki-bi kipepu. Matengo
 23 7SM-be.PERF 7.coldness
 24 ‘It is cold.’ (literally: ‘coldness exists’)
 25
 26 (28) Ji-kunika ihjula.
 27 9SM-rain 9.rain
 28 ‘It is raining.’ (literally: ‘rain rains’) (Yoneda, p.c.)
 29

30 Makhuwa does show an alternative subject marker *o-* for some weather verbs
 31 (29), and also in those instances when there is no logical subject, as in the
 32 impersonal passive of an unaccusative verb (31).¹⁴ It is telling that this default
 33 agreement only surfaces in cases where there is no clear subject to determine
 34 the agreement.

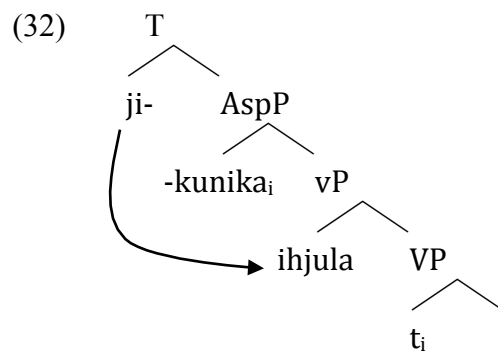
- 35
 36 (29) oviha ‘to be hot’ a. o-náá-víha ‘it is hot’ Makhuwa
 37 oriirya ‘to be cold’ b. o-náá-ríirya ‘it is cold’

- 38
 39 cf.
 40 (30) E-náá-rúpá epúla!
 41 9SM-PRES.DJ-rain 9.rain
 42 ‘It is raining!’
 43

- 44 (31) O-nuu-khw-iyá.
 45 ?-PERF.PERS-die-PASS
 46 ‘There has been/occurred a death.’
 47

¹⁴ It is difficult to establish in what class the agreement is, because *o-* is the subject prefix for classes 1,3,14,15, and 17; hence the question mark in the gloss.

1 We can conclude that subject agreement in these languages with Agreeing
 2 Inversion is, first, not random, and, second, not linked to an element in the
 3 preverbal position. Hence, the question is what determines agreement in these
 4 languages. If subject agreement is neither tied to Direction nor to Case, Baker’s
 5 (2008) parameters in (19) and (20) are effectively set ‘no, no’. Baker (2008) does
 6 not devote much attention to this, but in a footnote, he mentions that
 7 “Agreement in [no-no] languages is not random and unconstrained. The easiest
 8 answer would be to say that T simply probes downward in the pre-movement
 9 structure, agreeing with the first DP it finds – the thematic subject in spec, vP-
 10 regardless of how it gets case or whether it moves.” (Baker 2008: 170). We can
 11 apply this hypothesis to Matengo, with the tree in (32) illustrating the Matengo
 12 example in (28) above (‘rains rain’).

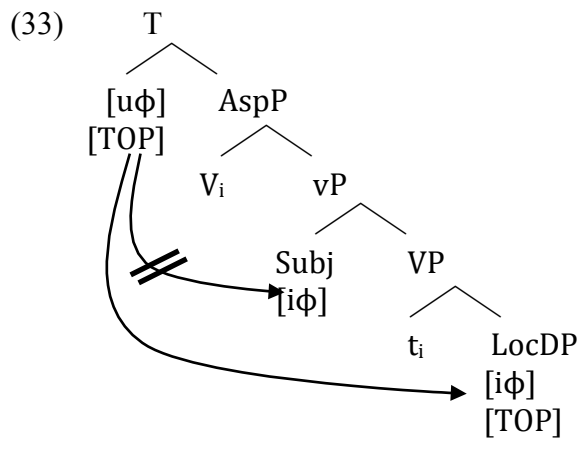


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 24 The hypothesis is thus that subject agreement in Makhuwa and Matengo is
 25 always determined by the hierarchically closest goal. Whether this can account
 26 for the data depends in part on what analysis we adopt for Locative Inversion
 27 and for preverbal adverbs in general. A long-standing debate for Locative
 28 Inversion is how the locative DP can be raised over the subject. The subject is
 29 usually assumed to start off higher in the structure than the locative and
 30 therefore closer to the probing head (T or AgrS) that spells out as the subject
 31 marker. Hence, agreeing with and raising the locative while leaving the subject
 32 in-situ violates the Minimal Link Condition (Chomsky 1995, 2000, cf. Rizzi’s
 33 1990, 2001, 2013 Relativized Minimality). There are two ways around this
 34 problem.

35 The first approach is that the locative is in fact in a higher position than
 36 the subject when T probes. This could be the case if the locative has moved to the
 37 edge of the vP phase, or if it was generated in a projection higher than vP (e.g.
 38 Zeller (2012, 2013) proposes PrP as the position where the inverted element
 39 originates in Instrument Inversion and (semantic) Locative Inversion, and
 40 Carstens and Diercks (2013a) posit an AgrLoc head above vP that targets only
 41 locatives). Hence, under this approach, no extra features on T need to be
 42 postulated for the derivation of Locative Inversion, as the closest goal will be the
 43 locative and not the subject.

44 The second way to circumvent the locality problem in Locative Inversion
 45 is an analysis in which the probe and goal (AgrS and locative DP, respectively)
 46 are further specified, for example having an additional topic feature [TOP], and a
 47 full match between the two is required. That is, it is not enough for a goal to
 48 partially match the features of the Probe, for example only match in [number]
 49 but not [gender]. If our probe T is specified not just for uφ, but also for topicality

1 [TOP], then only a goal with a [TOP] feature would fully match the Probe's
 2 specifications. All inversion constructions in Bantu have the function of
 3 highlighting the logical subject, either because it is newly presented (as inthetic
 4 sentences) or because it is focused (as in answers to questions and contrastive
 5 contexts). This entails that the logical subject in an inversion construction will
 6 never be specified as [TOP] and hence that it is not a fully matching suitable Goal.
 7 This allows the probe T to skip the subject, continue its search and agree with
 8 the lower locative if this is specified as [TOP]. This is illustrated in (33).



22 In this approach, the variation between languages with Locative Inversion and
 23 Agreeing Inversion is in the specification of the probe T for [TOP]. If T has [TOP],
 24 we find agreement with whichever element is topical (as in the languages
 25 Diercks describes); if T does not have [TOP], it will agree with the first c-
 26 commanded goal. If this goal is the logical subject, then we can account for the
 27 Agreeing Inversion constructions presented in this paper. The question,
 28 however, remains whether the logical subject is always the closest c-commanded
 29 goal.

30 It is important to note, in this respect, that the fronting of a locative or
 31 instrumental is possible in Makhuwa and Matengo as well, as shown in (24) and
 32 (25) above. All else being equal, this proceeds via spec,vP, resulting in a situation
 33 where the locative (or instrumental, or...) can intervene between the T probe
 34 and the logical subject and the derivation of Agreeing Inversion is no longer
 35 obvious: an unrestricted downward probe will encounter the locative rather
 36 than the subject as its closest goal in a sentence like (25c), here repeated as (34),
 37 and locality predicts that the subject marker will agree with the locative (i.e.
 38 Locative Inversion), which is clearly not the case.¹⁵

39
 40 (34) Mu-kítengu ga-a-tam-iti máhimba. Matengo
 41 18-7.forest 6SM-PAST-live-PERF 6.lions
 42 'In the forest lions lived.'

44 As agreement is still with the logical subject, there must be something else that
 45 uniquely identifies the logical subject as the only viable goal for subject
 46 agreement. A quite natural candidate for that unique identifier is nominative

¹⁵ Note that this is the predication for languages with Agreeing Inversion in the second approach as well, as in these languages T would not have a [TOP] specification anyway.

1 Case. This would set Baker's (2008) Case Dependency Parameter to 'yes' for the
2 Bantu languages that have Agreeing Inversion as their only inversion
3 construction.

4 In conclusion, in the languages where subject agreement is not
5 consistently with the logical subject, there is no evidence that abstract Case plays
6 any role, and this is accounted for if [uCase] is absent in these languages.
7 However, the Agreeing Inversion construction as found in Matengo and
8 Makhuwa potentially provides this evidence for Case. That is, acquirers receive a
9 potential cue, not just in subject inversion but in every sentence, that subject
10 agreement is related to nominative Case on the logical subject.

11 12 **4. Overt subject DPs in non-finite clauses**

13 Nominative Case is traditionally associated with finiteness: nominative Case on
14 an overt subject DP can only be licensed by finite T. Hence, the subject in a non-
15 finite clause should either be null (PRO) or have a different licenser, such as a
16 preposition or Exceptional Case Marking from a higher verb. Following this logic,
17 if a language shows restrictions on overt subjects in non-finite clauses, this
18 argues for the influence of Case licensing, whereas if overt DPs are allowed in
19 non-finite clauses, Case apparently does not play a role.

20 It is well known by now that even languages that otherwise show case
21 marking do allow overt DPs in non-finite clauses (Landau, 2006; McFadden,
22 2004; Sundaresan and McFadden, 2009; Szabolcsi, 2009; Torrego, 1998), thus
23 calling into question the direct relation between the distribution of overt DPs
24 and Case. However, since 'finiteness' is not a unitary notion, it needs to be
25 established on a language-individual basis precisely which aspect(s) of finiteness
26 correlates with nominative Case. This can be ϕ agreement with the subject,
27 (semantic) Tense or independent sentencehood (see among others Landau,
28 2004; Sitaridou, 2006).

29 Assuming for this paper, then, that restrictions in non-finite clauses are
30 related to Case licensing, and leaving discussion of the particular aspects of
31 finiteness for later in this section, there are three environments in which this can
32 be tested (Diercks, 2012; Sheehan and van der Wal, 2014):

33
34 A. complements of raising-to-subject verbs

35
36 (35) *It seems [John to eat pancakes].
37

38 B. complements of object raising verbs without Exceptional Case Marking or
39 overt C;

40
41 (36) *We hope [John to eat pancakes].
42

43 C. and sentential subjects without an overt C.

44
45 (37) *[John to eat pancakes] would be good.
46

47 The data for these environments are shown below for the languages Diercks
48 (2012) discusses and contrasted with Makhuwa and Matengo, which again
49 pattern differently.

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4.1. DPs as subjects of non-finite complements of raising predicates

If Case does not play a role in the syntax of a language, Diercks argues, we should find overt DPs as subjects of non-finite sentences, a prediction that holds true for the languages he looks at. Like in English, the subject of a finite complement clause can be overt, as in (38a). Unlike English, however, the subject is also allowed to appear in a non-finite clause as in (38b), which lacks a Case licenser such as a complementizer or preposition.¹⁶

- (38) a. I-na-wezekana kukalaMike a-nda-muiha Tegan. Digo (E73)
9SM-PRES-possible that 1.Mike 1SM-FUT-call 1.Tegan
'It is possible that Mike will call Tegan.'
- b. I-na-wezekana Mike ku-muiha Tegan.¹⁷
9SM-PRES-possible 1.Mike 15-call 1.Tegan
'It is possible (for) Mike to call Tegan.'
- c. Chahi i-na-wezekana mutu ku-olagb-wa kpwasababu ya
maybe 9SM-PRES-possible 1.person 15-kill-PASS for reason of
mutu mnono sana.
1.person 1.good very
'Maybe it is possible [for] a person to be killed because of a very good person.'
(Diercks 2012: 260, referring to Steve Nicolle)

Unfortunately, neither Makhuwa nor Matengo has clear raising-to-subject predicates. Instead, for 'seem'-type verbs Makhuwa has an experiencer construction (39).

- (39) Ki-ná-móóná ntokó wiírá n-náá-kí-thépya. Makhuwa
1SG.SM-PRES.DJ-see like COMP 2PL-PRES.DJ-1SG.OM-lie
'It seems like you are lying to me.' = 'I look/see as if you are lying to me.'

4.2. DP subjects in non-finite complements of control predicates

While it is perfectly grammatical in Matengo and Makhuwa to have a null (PRO) subject in the complement of a control predicate, as shown in (40a) and (41a), an overt DP subject in an infinitive complement is ungrammatical, as seen in the (b) examples.

- (40) a. M-bala ímbui kúula. Matengo
1SG.SM-want 9.goat 15.eat
'I want to eat goat' / 'I want goat to eat'
* 'I want the goat to engage in eating.'

¹⁶ Diercks (2012) gives the same pattern for Swahili, but Kristina Riedel (p.c.) points out that in fact a preposition 'kwa' is needed for the sentence to be grammatical in standard Swahili.

¹⁷ Bantu infinitives are in noun class 15 and therefore glossed as such.

1 'I want Amina to cook rice.'

2

3 (46) a. O-kí-tsívélá ovára ehópa.

4 ?-1SG.OM-please 15.fish 9.fish

5 'I like to fish.'

6

7 c. * O-ki-tsivela Peeturu ovara nteko.

8 ?-1SG.OM-please 1.Pedro 15.grab 3.work

9 int. 'I like for Pedro to work.'

10

11 b. O-ki-tsivela wiira Peeturu avare nteko.

12 ?-1SG.OM-please COMP 1.Pedro 1SM-grab-SUBJ 3.work

13 'I like it that Pedro works.'

14

15 The subjunctive complements raise two further questions that need to be
16 answered before a conclusion can be drawn on the presence of Case in these
17 control complements:

- 18 1. whether the subject is indeed in the lower clause and has not raised to
19 become the object of the higher verb; and
- 20 2. whether the subjunctive verb in the lower clause licenses the nominative
21 Case of the subject. If it does, these data are compatible with the presence of
22 Case in these languages.

23 With respect to the first question, it needs to be shown that the DP is
24 (Case-)licensed as the subject of the lower clause and not the object of the higher
25 clause (ECM). In Makhuwa, this can be shown with object marking. An object
26 marking prefix on the verb is obligatory only and always for object nouns in
27 classes 1 and 2, as shown in (47).

28

29 (47) a. Ki-ni-m-wéha Hamísi / namarokoló/ nancoólo. Makhuwa

30 1SG.SM-PRES.CJ-1OM-look 1.Hamisi / 1.hare / 1.fish.hook

31 'I see Hamisi / the hare / the fish hook.'

32 b. * Ki-m-wéhá Hamísi / namarokoló/ nancoólo.

33 1SG.SM-PRES.CJ-look 1.Hamisi / 1.hare / 1.fish.hook

34

35 The fact that 'Amina' is not object marked in the subjunctive complement in (45)
36 above shows that it must be the subject in the lower clause, rather than raised to
37 the object position of the higher clause. If it would have undergone raising-to-
38 object, object marking would have been obligatory. Note also that object marking
39 is possible with a subjunctive complement, but results in the DP being the
40 thematic object of the higher verb, not the subject of the lower. This is apparent
41 in the informants' explanations for (48) where it is relevant that *-pheela* means
42 both 'want' and 'like'. The interpretation of (48a) is that "it seems that you like
43 Hare but also want him to go away; that is weird", and (48b) was described as
44 "you are looking for Amina so that she can come and cook". The lower clause in
45 these examples must have a *pro* subject.

46

47 (48) a. * Mwi-ni-m-phéélá namárokolo a-khum-é? Makhuwa

48 2PL-PRES-1OM-want 1.hare 1SM-leave-OPT

49 int. 'Do you want Hare to leave?'

1 'Yesterday, what did you want me to cook today?'

2

3 b. Mwi-nni-pheela k-uu-tumih-er-e=ni olavilavi meelo?
4 2PL.SM-HAB-want 1SG.SM-2SG.OM-sell-APPL-OPT=PLA 14.trick tomorrow
5 'Do you want me to sell you a trick tomorrow?' Makhuwa

6

7 Third, although the subjunctive verb form can occur in a subordinate clause, it
8 can also be used in a main clause with an optative reading, hortative or
9 imperative reading, as shown in (50) and (51).

10

11 (50) M-vir-é.
12 Makhuwa
13 2PL.SM-pass-OPT
14 'Come in!', lit: 'you (may) pass'

15

16 (51) Ni-ń-kóh-e ntsíná n-áwé.
17 1PL.SM-1OM-ask-OPT 5.name5-POSS.1
18 'Let's ask for his name.'

19

20 Importantly, when the subjunctive occurs in an embedded clause, this can be
21 introduced by a complementizer, as in (49) above and (52). These data show that
22 the subjunctive clause is a CP.

23

24 (52) Ki-m-phéélá wiira nhím-ááká a-som-é. Makhuwa
25 1SG.SM-PRES.CJ-want COMP 1.brother-POSS.1SG 1SM-read-OPT
26 'I want my brother to study.' / 'I want that my brother studies.'

27

28 This resonates with Sitaridou (2006), who suggests that nominative Case is
29 related to independent sentencehood. That is, T is dependent on C in order to be
30 finite and license nominative Case. This I argue to be the property linked to Case-
31 licensing in Makhuwa as well.

32 In summary, a full DP subject is allowed in a subjunctive complement
33 clause, but not in an infinitive. The various properties associated with finiteness
34 show that subjunctive clauses in Makhuwa are "more finite than infinitival V-
35 complements but less finite than main clauses" (Givón, 2001: 338). The crucial
36 characteristic in Makhuwa to license Case is independent sentencehood
37 (presence of C), and I argue that the subjunctive in Makhuwa therefore does
38 assign Case to its subject (see also the discussion of the durative 'gerund' in
39 section 6). For Matengo it remains to be seen whether the lower verb also
40 licenses Case; an in-depth analysis of the subjunctive tenses would be needed,
41 which must, at this point, be left for further research.

42

43 4.3. DPs in non-finite sentential subjects

44 The third environment in which we find non-finite clauses is when they function
45 as the subject of a sentence. In (53), the clause 'to win the game' is non-finite and
46 T can hence not license the Case of the subject within that clause, 'Sammy'. This
47 can be seen in the English translation, where the preposition 'for' is needed to
48 license the subject DP. The fact that such a prepositional licenser is not needed in

1 Lubukusu is an argument to say that the subject DP does not need to be Case-
2 licensed, and shows that there is no evidence for Case in these environments.

3

4 Lubukusu (JE31c, Diercks 2012:261)

5 (53) Sammy khu-khila ku-mw-inyaweo-kwo khu-la-sanga-sya mawe.
6 1Sammy INF-win 3-3-game DEM-3 15SM- FUT-please-CAUS mother
7 'For Sammy to win the game will please his mother.'

8 The same construction is not possible in Matengo: although an infinitive can be
9 the subject, and a null PRO subject is grammatical (54a), an overt DP as the
10 subject of that infinitive is not licensed. The sentence is either interpreted with
11 the DP as a vocative (55a), or repaired by inserting a preposition *kwaka* (55b).

12

13 (54) a. Kúula sáape. Matengo
14 15.eat good
15 'To eat is good.'

16

17 b. *Áídan kúula sáape.
18 Aidan 15.eat good
19 int. 'For Aidan to eat is good.'

20

21 (55) a. Áídani, kúula sáape.
22 Aidan 15.eat good
23 'Aidan, eating is good!'

24

25 b. (Ni-holalé) kwaka Áídan kúula sáape.
26 (1SG.SM-think) for Aidan 15.eat good
27 '(I think that) For Aidan to eat is good'

28

29 Although in Makhuwa in the first instance it seemed to be possible to have an
30 overt subject in a non-finite sentential clause (56a), my informants all indicated
31 alternatives: the use of a preposition (56b), an obligatory pause implying an
32 analysis as a vocative (57a), or a different word order with a subjunctive verb
33 form (57b).

34

35 (56) a. Coáná ophíyá Musampíkhí ti woóríkaríka. Makhuwa
36 1.Joanna 15.arrive Mozambique COP difficult
37 '(For) Joanna to arrive in Mozambique is difficult.'
38 'Joanna arriving in Mozambique – that is difficult.'

39

40 b. Para Coána ophíya Musampíkhí khu-khwey-ále.
41 for 1.Joanna 15.arrive Mozambique NEG.15SM-be.easy-PERF
42 'For Joanna to arrive in Mozambique was not easy.'

43

44 (57) (stimulus: (for) Maria to eat rice would be good)

45 a. Mariá *(,) ócá nráma w-aánáa-réera.
46 1.Maria 15.eat 3.rice 15SM-IMPF-be.good
47 'Maria, to eat rice would be good.'

48

1 b. W-aaní-réera Maríya ó-c-e.¹⁹
 2 ?SM-IMPF-be.good 1.Maria 1SM-eat-OPT
 3 ‘It would be good if Maria ate.’
 4

5 For (56a), which seemed okay initially, one informant indicated a pause before
 6 the copula, which implies a sort of paratactic structure as indicated in the second
 7 translation. These so-called root infinitives are problematic in any theory of Case.
 8 Progovac (2006) deals with these ‘Mad Magazine sentences’ (Akmajian, 1984) as
 9 small clauses where there is neither tense in the clause, nor Case on the subject -
 10 there is just a predication relation.

11 Makhuwa has yet another non-finite strategy, where the infinitive
 12 behaves like a noun²⁰ and its subject appears with a possessive, that is, it can be
 13 said to have genitive Case (58).²¹
 14

15 (58) O-cáwá w-áwé Folóra o-kí-tsívéla. Makhuwa
 16 15-run 15-POSS.1 1.Flora ?-1SG-please
 17 ‘Flora’s (way of) running I like.’
 18

19 In summary, the data from sentential subjects in Matengo and Makhuwa show
 20 that overt DPs cannot surface as subjects in these non-finite clauses, unlike in the
 21 languages that Diercks (2012) studies. This shows that there are restrictions on
 22 the occurrence of overt DPs, which must be accounted for. Since these properties
 23 are traditionally associated with Case, this is taken as yet another indication for
 24 the presence of an abstract Case-licensing mechanism in these languages.
 25 Moreover, this is something that learners can pick up. Never receiving input for
 26 overt subjects in non-finite clauses provides relatively strong evidence for a
 27 restriction on the occurrence of DPs, i.e. for an abstract licensing system to be
 28 present. Finally, it also demonstrates that the proposed Case parameter does
 29 indeed not have the same setting in all of the Bantu languages.
 30

31 **5. Licensing the agent in a passive sentence**

32 In this section an additional test involving the passive is introduced, which is not
 33 used by Diercks (2012). In a language without Case, we expect DPs to be allowed
 34 to appear without explicit Case licensers, such as prepositions. This should also
 35 hold for the agent DP in a typical passive, where the agent is demoted from the
 36 syntactic subject function. The agent is still part of the thematic structure, but it
 37 is not Case-licensed by the verb and hence needs a preposition (‘by’ in English)
 38 to appear overtly. A language like Luganda, that otherwise does not show Case
 39 properties either (Sheehan & Van der Wal 2014), allows for the overt expression

¹⁹ The tense prefix *-aani-* is a regional variant of *-aanaa-*. See footnote 11 for the question mark as gloss for subject agreement.

²⁰ This is a general fact about infinitives in Bantu languages, which formally belong to noun class 15 and can hence be seen as true nouns.

²¹ Alternatively, the subject can appear with the connective, which functions like a preposition ‘of’. As Diercks (2012: 255) also remarks, this associative marker is rather like a preposition and not a Case marker.

i. O-cáwá w-a Folóra ti w-oóréera.
 15-run 15-CONN 1.Flora COP 15-good
 ‘Flora’s running is good.’

1 of the agent without any preposition or case-licensing linker, as predicted by
 2 Diercks' (2012) setting for 'no [uCase]' in Bantu (cf. Pak, 2008).

- 3
 4 (59) a. Abaana ba-a-soma ekitabo. [Luganda]
 5 2.children 2SM-PST-read 7.book
 6 'The children read a book.'
 7
 8 b. Ekitabo ky-aa-som-ebwa abaana.
 9 7.book 7SM-PST-read-PASS 2.children
 10 'The book was read (by) the children.'

11
 12 In Makhuwa, on the other hand, a preposition *ni* is required, shown in (60).

- 13
 14 (60) Íi, koo-vár-íya *(ni) khwátte! [Makhuwa]
 15 ii 1SG.SM.PERF.DJ-grab-PASS by 1.fox
 16 'Ii, I am caught by the fox!'

17
 18 This preposition functions as a Case-licenser rather than an introducer of an
 19 extra argument: the agent remains present in the theta-structure of the verb (i.e.
 20 is demoted rather than removed), as evidenced by the felicity of agent-oriented
 21 adverbs and purpose clauses, as in (61).

- 22
 23 (61) a. Mwalakhu oo-hit-iyá mwayini.
 24 1.chicken 1SM.PERF.DJ-cut-PASS on.purpose
 25 'The chicken was killed intentionally.'
 26
 27 b. Mwalakhu oo-hit-iyá para (hiyaano) o-n-khuura meelo.
 28 1.chicken 1SM-cut-PASS for 1PL.PRO 15-10M-eat tomorrow
 29 'The chicken was killed (for us) to eat tomorrow.'

30
 31 Matengo does not have a typical Bantu morphological passive construction.
 32 Instead, there are three alternative strategies (van der Wal, To appear). A first
 33 strategy is a subject inversion construction, where the agent DP is pragmatically
 34 demoted to non-topic but still functions as the syntactic subject, also triggering
 35 subject marking on the verb, as in (62a). The second alternative is a 3rd plural
 36 strategy where subject agreement is in class 2 and the interpretation is
 37 impersonal (62b). A third alternative strategy is a stative extension on the verb,
 38 which varies between an 'ability' reading and a passive reading (62c). In the
 39 latter strategy the agent DP can only be expressed if it is non-volitional (like 'the
 40 wind') and if it is preceded by a preposition *na*.

- 41
 42 (62) a. ('What about Anna?') Matengo
 43 Ju-lap-ui Jóoni.
 44 1SM-hit-PERF 1.John
 45 'John hit (her).' / 'She was hit by John.'
 46
 47 b. A-télik-i cháai.
 48 2SM-cook-PERF 7.tea
 49 'Tea was made.' lit. 'They cooked tea.'

- 1
2 c. Lindilfisá li-hogul-**ik**-í *(n') ũwáai.
3 5.window 5SM-open-STAT-PFV by 14.wind
4 'The window was opened by the wind.'

5
6 For our assessment of how abstract Case can be detected, this entails that in
7 Makhuwa there is yet another environment (passive) that evidences the
8 influence of Case, by requiring a preposition for DP licensing. In Matengo, this
9 environment seems at first sight to be lacking, but the use of the preposition in
10 the stative is also an indication of Case licensing, and the use of the consistently
11 agreeing subject inversion strategy as discussed in section 3 also provides
12 evidence for the presence of Case, both for the linguist and for the language
13 acquirer.

14 A remaining puzzle is the existence of languages that conform to Diercks'
15 (2012) predictions for Caselessness on other diagnostics, but nevertheless have
16 a passive with a by-phrase. An example is Diercks' otherwise Caseless language
17 Lubukusu (63), where the preposition *nende* is required with the overt agent of a
18 passive clause.

- 19
20 (63) Ba-sasi ba-bol-el-wa nende Sammy mbo Lubukusu (JE31c)
21 2-parents 2SM-say-APPL-PASS by 1.Sammy that
22 ba-keni ba-a-rekukha.
23 2-guests 2SM-PAST-leave
24 'The parents were told by Sammy that the guests left.' (Diercks 2010:
25 296)

26
27 This can be interpreted in two ways: either there is Case in this small corner of
28 the language (but it may not be enough input to posit an abstract Case licensing
29 system), or the preposition does not just Case-license the agent, but actually
30 introduces it. This requires further language-individual testing.

31 32 **6. DPs in multiple Case positions**

33 A final diagnostic used by Diercks (2012) is that Caseless languages should allow
34 DPs to move out of Case positions and to more than one Case position. This is
35 because of the presumed activity that is associated with [uCase]. In the standard
36 Chomskyan probe-goal Agree system, an uninterpretable feature makes a goal
37 active, and the goal is required to be active to be visible for the probe. This is
38 known as the Activity Requirement. The relevant feature that makes a DP active
39 and hence renders it suitable as goal for agreement and movement, is assumed
40 to be [uCase], at least for Indo-European languages (Chomsky 2001).

- 41
42 (64) The Activity Requirement: each participant in an Agree relation must have
43 an unchecked uninterpretable feature.

44
45 Under standard assumptions, an uninterpretable feature is deactivated as soon
46 as it is valued (by Agree). This entails that if a language has Case, and if a DP
47 agrees and/or moves, its [uCase] feature is valued and the DP rendered inactive.
48 This in turn means that DPs with valued Case are not available for further
49 movement and agreement. Moreover, it means that DP movement chains are

1 supposed to only have one structural Case, that is, DPs cannot move through/to
 2 multiple Case positions. This is intended to account for the grammaticality of the
 3 raising construction in (65): [uCase] of the DP ‘John’ is valued in the finite lower
 4 clause (a) and can therefore not raise to be the subject of the higher clause (b).

- 5
 6 (65) a. It seems [that John is happy].
 7 b. *John_i seems [that t_i is happy].
 8

9 However, this is not the pattern found in some Bantu languages where DPs can
 10 be ‘hyperactive’: they can be agreed with several times (Carstens, 2011;
 11 Kinyalolo, 1991). Thus, DPs agree with multiple verbs in complex tenses
 12 consisting of two verbs, as in (66), and in ‘hyperraising’ constructions (Ura,
 13 1994) illustrated in (67).

- 14
 15 (66) Nzogu zí-kili z-á-twaga maswá. Kilega (D25)
 16 10.elephant 10SM-be.still 10SM-ASP-stampede 6.farm
 17 ‘The elephants are still stampeding over the farms.’ (Carstens 2011:722)

- 18
 19 (67) Efula yi-bonekhana i-na-kwa muchiri. Lusaamia (JE34)
 20 9.rain 9SM-appear 9SM-FUT-fall tomorrow
 21 ‘It seems that it will rain tomorrow’ (Carstens and Diercks, 2013b)

22
 23 Apparently, after the first operation of Agree on the lower verb, which should
 24 value [uCase] and render it inactive, the DPs in these constructions are still
 25 eligible for further operations and appear in multiple Case positions. This
 26 suggests that DP chains are not limited to one Case feature, or alternatively, as
 27 Diercks (2012) argues, can be accounted for more elegantly by assuming the
 28 absence of Case (cf. Baker 2008). In addition, hyperagreement argues against the
 29 role of Case as an activity feature. In the following, two lines of argumentation
 30 are discussed that have been proposed to account for these facts, the first
 31 addressing the role of [uCase] as an activity feature, and the second examining
 32 the role of finiteness in Case valuing.

33 If the Activity Condition holds, and if [uCase] is indeed inactive after
 34 valuation or indeed if there is no Case at all, there must be some other
 35 uninterpretable unvalued feature that makes DPs active in these languages.²²
 36 Carstens (2005, 2011) proposes that [gender] is the relevant activity feature in
 37 Bantu. She argues that [gender] functions as an uninterpretable but valued
 38 activity feature on the subject DP. If agreement is concerned with valuing a
 39 feature, and if [ugender] already has a value but remains uninterpretable hence
 40 active, any DP with [gender] will remain active as a goal, allowing it to enter into
 41 more than one Agree relation. This suggestion is implemented by Diercks (2012)
 42 and Carstens and Diercks (2013), claiming that this makes [uCase] superfluous in
 43 the languages they discuss. A weaker thesis can be formulated that Case does not

²² Alternatively we could argue that the Activity Condition does not apply, either for Bantu or in general (see Nevins 2004, Bošković 2007), or that a DP can have multiple structural Cases (Bejar and Massam 1999, Richards 2013, Pesetsky 2014), while still excluding inherent-structural case combinations like Icelandic (Jónsson 1996, Sigurðsson 1989, 1992 Bošković 2002) and ‘case stacking’, this not being a reflex of multiple structural Case on the same DP (Schütze 2001, on Korean). I will leave these analyses to one side here.

1 play a role but is present (as Carstens 2005 still assumes), but if [gender] takes
 2 over the role that [uCase] plays in Minimalist analyses of other languages, then
 3 the stronger thesis should be that Case is effectively absent in these languages. I
 4 refer the reader to the cited works for a full explanation of how [gender] can be
 5 an activity feature, and will here only concentrate on its effects for the
 6 parameterization of Case.

7 In the tests discussed in the previous sections, languages with Agreeing
 8 Inversion showed properties different from the languages Diercks (2012) bases
 9 his analysis on. Perhaps surprisingly, hyperagreement is attested in Bantu
 10 languages with Agreeing Inversion as well. Multiple verbs displaying subject
 11 agreement can appear in sentences with complex tenses, as illustrated in (68)-
 12 (70).²³

13
 14 (68) Vánóki-hááná ki-thel-áka. Makhuwa
 15 PTCL 1SG.SM-have 1SG.SM-marry-DUR
 16 ‘Now I have to marry.’

17
 18 (69) Nguúwo ji-w-elé ji-ni-nyáúuka. Makwe
 19 10.clothes 10SM.be. PAST.PERF 10SM.PRES.PERF.be:dirty
 20 ‘The clothes were dirty.’ (Devos 2004: 283)

21
 22 (70) Tw-a-ba tu-gon-ile. Matengo
 23 1PL.SM-PST-be 1PL.SM-sleep-PERF
 24 ‘We were sleeping, (when he arrived).’ (Yoneda, 2000: 200)

25
 26 This is unexpected, because if these languages have Case (suggested by the
 27 previous tests), the [uCase] feature on the DP should be deactivated in the first
 28 instance of Agree and could hence not be a goal for further Agree relations. The
 29 same solution as proposed for Swahili hyperactivity (Carstens 2011) can also be
 30 applied here: multiple agreement can be accounted for by assuming [u-gender]
 31 as the activity feature. But even if [gender] is an activity feature, which would be
 32 natural for a Bantu language showing [gender] as pairs of noun classes, this does
 33 not form a clear argument against the presence of Case: after all, nothing
 34 restricts a language from having uninterpretable valued [u-gender] as well as
 35 uninterpretable [uCase], even if this might initially seem somewhat
 36 uneconomical from a theoretical perspective.

37 Before resorting to such doubling of activity features, we need to have a
 38 close look at the actual instances of complex tenses in order to see whether the
 39 verbs involved are all potential Case licensers and the DP really occupies
 40 multiple Case positions. If it can be shown that only one Agree relation involves
 41 Case licensing, these examples with multiple agreement are not an argument for
 42 the absence of Case. This is the situation found in languages which clearly do
 43 have Case. Baker (2008: 210) notes that Indo-European languages can also have
 44 double agreement, but this “only happens when the lower verb is an adjective-
 45 like participle, which agrees with the subject in number and gender but not in
 46 person”. “Participial heads do not value the case of the DP that they agree with.
 47 Thus they do not compete with the finite T associated with the auxiliary verb in

²³ As mentioned before, Makhuwa and Matengo do not have evident raising verbs, so hyperraising is not encountered either.

- 1 (72) a. Ki-haana ki-thel-aka elelo.
 2 1SG.SM-have 1SG.SM-marry-DUR today
 3 'I have to marry today.'
 4 b. * Ntsana k-aa-haana ki-thel-aka elelo.
 5 yesterday 1SG.SM-PAST-have 1SG.SM-marry-DUR today
 6 'Yesterday I had to marry today.' Makhuwa

7
 8 The third characteristic is the capacity for independent sentencehood. Crucially,
 9 the situative tenses are always dependent, functioning like a converb (Carlson,
 10 1992; Haspelmath and König, 1995; van der Wal, 2014). That is, the durative can
 11 only appear in a subordinate clause and is comparable to a gerund: the main
 12 clause 'he crawled' cannot be omitted in (73).

- 13
 14 (73) O-h-iípúríla o-h-iípúríla a-pheél-ák' ocáwa.
 15 1SM-PERF.DJ-crawl 1SM-PERF.DJ-crawl 1SM.SIT-want-DUR 15.flee
 16 'He crawled and crawled, wanting to flee.' Makhuwa

17
 18 Furthermore, the durative clause is never introduced by a complementizer.
 19 These are essential differences between the subjunctive (discussed in section
 20 4.1) and the durative. Although they behave the same for ϕ features, the
 21 subjunctive provides evidence of being an independent CP and allowing
 22 temporal adverbs, whereas the durative in the 'have to' construction does not.

23 For this particular construction of *-haana* with a durative, it appears that
 24 the lower verb does not license Case and hence that the Case of the DP is only
 25 valued once, by the finite auxiliary *-haana*. This could be captured in the same
 26 way participles in European languages are analysed (Kayne, 1989), or in
 27 Henderson's (2006) analysis of hyperagreement in Bantu, where he proposes
 28 that there is only one Agree relation (with the highest verb) and the 'multiple
 29 agreement' is actually concord on the lower verb with the highest verb.

30 I conclude that Makhuwa is not likely to have true hyperagreement.^{25,26}
 31 For the other languages with Agreeing Inversion (such as Matengo, Makwe,
 32 Matuumbi) it remains to be investigated "how finite" the lower verb is. If there is
 33 true multiple agreement, this would suggest that Case cannot be the (only)
 34 feature that makes DPs active goals.

35 In summary, multiple agreement is also a unidirectional diagnostic: if a
 36 language prohibits the movement of DPs from a Case position (as in English), this
 37 argues for the presence of Case. If, on the other hand, the language allows

²⁵ It would be interesting to apply the same diagnostics to Diercks' Caseless languages, i.e. check independent temporal reference for instances of hyperagreement.

²⁶ Apart from the 'have to' construction, Makhuwa does not show many other instances of what could be multiple agreement. One is sentences with 'be' followed by a verbal-looking form as in (vi.b), but they also turn out not to be what they seem: the tonal pattern on the second "verb" in (vi.b), to be compared to the real inflected verb in (vi.a), shows that this is actually a connective *tsa* plus infinitive *oveliya*, functioning like an adjective.

- (vi) a. Ekokhólá tsoo-vél-íya. Makhuwa
 10.rubbish 10SM.PERF.DJ-sweep-PASS
 'The rubbish was swept.'
 b. Ekokhólá ts-aá-rí ts' oó-vél-íya.
 10.rubbish 10SM-PAST-be 10.CONN 15-sweep-PASS
 'The rubbish was swept.' (lit. was of being swept)

1 hyperagreement, this can be explained in a number of ways, which do not
2 necessarily inform us about the status of [uCase]. Alternative explanations are:
3 the Activity Requirement could be argued not to hold here, or not to exist at all
4 (Bošković, 2007; Nevins, 2004); Case could be relevant for licensing but not for
5 activation; hyperagreement does not involve multiple Case positions or
6 agreement/valuation operations; and/or there could be a second or alternative
7 activity feature that does not get deactivated, such as [u-gender].

9 **7. Conclusion**

10 Even though Case may be parameterized, as Diercks (2012) proposes,
11 microvariation within the Bantu language family shows that it is not correct to
12 characterize the whole language family in terms of a parameter setting “no
13 [uCase]”. Diercks (2012: 283) rightly asks in his conclusion “what explanatory
14 value does Case theory have for Bantu languages?”. The available data in
15 Matengo and Makhuwa show that abstract Case in these languages can explain

- 16 1. the consistent agreement with the logical and grammatical subject,
17 irrespective of its position in the sentence,²⁷
- 18 2. the absence of Locative Inversion and Default Agreement Inversion,
- 19 3. the default agreement in cases where there is no nominative DP,
- 20 4. the ungrammaticality of overt DPs in non-finite clauses, and
- 21 5. the need for a marker to introduce the overt agent DP in a passive.

22 More importantly, these restrictions on the agreement with and appearance of
23 overt DPs constitute consistent evidence for the presence of abstract Case in
24 various linguistic environments. This is plausibly enough concrete substantiation
25 for a language acquirer to pick up on an abstract licensing system, which makes
26 it learnable in Matengo and Makhuwa, but not so in languages like Luganda and
27 the Bantu languages that Diercks (2012) examined. One of the questions is what
28 forms enough evidence to postulate formal or uninterpretable features. As an
29 example of an easy case, in all Bantu languages, features such as noun class
30 (gender) are so abundant in the input that it is virtually impossible for a
31 language acquirer to *not* pick up this formal feature. On the contrary, DP
32 licensing (i.e. a Case feature) is much less prominent - especially when compared
33 to languages that do have systematic case marking. Nevertheless, we can clearly
34 observe a difference in terms of input between on the one hand the languages
35 that Diercks’ (2012) discusses and on the other hand Makhuwa and Matengo: in
36 the five environments identified, Makhuwa and Matengo arguably provide the
37 learner with more and consistent evidence for an abstract DP licensing system
38 than the other languages.

39 A further question is whether Case is always a macroparameter. There are
40 two alternatives to the macroparametric view. One is that abstract Case does not
41 exist at all, hence that there is no parameter. McFadden (2004) and Sundaresan
42 & McFadden (2009) propose that the restrictions in occurrence of overt DPs can
43 and should be accounted for through selectional restrictions on clausal
44 complements, where independent complements take overt subjects (+R) and
45 temporally and referentially anaphoric clausal complements select for covert
46 subjects (-R, PRO). Note, however, that the selection analysis does not account

²⁷ Note that this property is not accounted for in Sundaresan & McFadden’s (2009) proposal, which only accounts for the occurrence of overt DPs.

1 for the consistent subject agreement in Agreeing Inversion languages, or for the
2 restrictions in non-finite clausal subjects.

3 A second view is held by researchers like Wiltschko (2011) and Danon
4 (2006), who also assume that the Case Filter does not hold, but crucially propose
5 that this may be parameterized within a language, on a microparametric level.
6 That is, some nouns need Case licensing whereas others do not, e.g. DPs need
7 Case and NPs not. The NP/DP distinction for Case has been proposed for Bantu
8 languages by Ndayiragije (1999) and Baker (2003). There is another way in
9 which Case may be microparameterized, namely with respect to which clausal
10 heads license Case. It has been proposed that even if T may not be associated
11 with Case, the v-domain could still be. Halpert (to appear) claims that a Licensing
12 projection just above vP licenses Case in Zulu, accounting for subject-to-object
13 raising and the distribution of augmentless nouns. Carstens and Mletshe (to
14 appear) propose for Xhosa that if v is defective, so is T. Case in their analysis is
15 assigned by a FocP, explaining the obligatorily narrow focus interpretation of S
16 in VSO order. Both proposals amount to having Case in the lower part of the
17 clause (accusative?) but not the higher (nominative), i.e. not a macro- but a
18 microparameter.

19 There are obviously many open questions regarding the licensing of overt
20 DPs and the parameterization of Case. However, if Case is indeed a formal feature
21 that is active in the syntax, then we should under Minimalist assumptions have
22 (at least) two expectations. First, we expect languages to be parameterized in
23 whether and to what extent languages employ this feature, forming parametric
24 hierarchies as proposed by Roberts and Holmberg (2010). Second, if UG is truly
25 minimal in its initial state, we expect features to not be given but emergent,
26 (Bazalgette, In progress; Biberauer, 2014; Biberauer and Roberts, to appear;
27 Gianollo et al., 2008; Wiltschko, 2014) implying that the input should be rich and
28 unambiguous enough for the acquirer to identify the necessity to postulate a
29 formal feature (Evers and van Kampen, 2008; Fasanella, 2014); see also
30 Fasanella and Fortuny (2013) for a link between learnability and syntactic
31 variation. Without case morphology and in the absence of a clear interpretable
32 counterpart to uCase, the evidence for abstract Case is to be found in the
33 syntactic diagnostics discussed in this paper (cf. Sheehan and van der Wal,
34 2014).

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