The coming apart of case and focus in Bantu

Asia Pietraszko
University of Rochester
10 Jan 2020
[resubmitted]

Abstract

The paper presents an argument for structural case in a Bantu language, Ndebele. Bantu languages notoriously lack typical signs of case licensing, which led to many to propose they lack case altogether. A recent claim to the contrary, put forth in Halpert 2012, 2015, has been challenged by Carstens & Mletshe (2016), who argue that the patterns Halpert describes fall under the umbrella of focus licensing, thus undermining the need for an independent case licensing mechanism. Ndebele data invalidate this challenge, revealing a purely syntactic nature of the phenomenon in question.

1 Introduction

The existence of case phenomena in Bantu languages has been a long standing debate. One reason is the absence of morphological marking that could be straightforwardly interpreted as case morphology. The other reason is the notorious absence of the kind of restrictions on the distribution of nominals that have been attributed to Abstract Case since Vergnaud 1977. In light of these facts, it has been proposed that Bantu languages lack case altogether or that its effects are largely vacuous and can be observed only in a few narrow corners in the grammar. Contrary to this claim, Halpert (2012, 2015) argues that Zulu exhibits structural case, pointing out two reasons why the patterns in question were not previously analyzed as case. First, not all DPs are subject to structural case licensing; rather, only DPs with special morphology – the lack of *the augment* – require structural case. Second, structural case in Zulu is not licensed in the same configurations as in better studied case systems; in particular, Zulu exhibits only vP internal case licensing, and there is no structural case associated with T. Once we recognize these two peculiarities of Zulu, a robust pattern of restrictions on nominal distribution follows from the proposed structural case system.

However, Halpert's claim has been recently challenged by Carstens & Mletshe (2016), who argue that the hypothesized structural case positions are in fact focus positions, and what Halpert characterized as case licensing is in fact focus licensing. In their view, augmentless nominals are a type of focus phrase and their distribution falls out from an independently needed mechanism of focus licensing. If true, such redundancy casts serious doubt over the structural case hypothesis for Zulu, bringing us back to the world in which evidence for case in Bantu is weak at best and extremely scarce. In this paper, I provide evidence against reducing augmentless nominal licensing to focus licensing. The evidence comes from Northern Ndebele (S44, Zimbabwe), a close relative of Zulu with the same restrictions on augmentless nominals. I show that, even though augmentless and focused phrases have partly overlapping distributions, there are positions that allow one but not the other. This leads us to conclude that the distributional restrictions on augmentless nominals cannot be reduced to focus licensing. Moreover, I show that the non-overlapping contexts, in which an augmentless noun is impossible despite being in a licit focus position, follow if augmentless nominals are indeed structurally case-marked.

2 Case in Bantu – a brief recap of the debate

The goal of this section is to i) highlight some representative arguments given in the literature against case in Bantu languages, ii) present Halpert's arguments for structural case in Zulu and iii) describe the challenge for this claim posed by Carstens & Mletshe's findings.¹

¹ Due to space limitations, this section cannot do justice to all existing claims about potential case phenomena in Bantu languages. For a more detailed overview see Halpert 2015, Diercks & Carstens to appear.

First, DPs in Bantu languages bear no case morphology. Consider the DP *umama* 'mother' in (1), which has the same form when appearing as a subject (1-a), direct object (1-b) and indirect object (1-c).²

Ndebele

- (1) a. U-mama u-pheke i-suphu.
 1aug-1mother 1s-cook.PST 9aug-9soup
 'Mother cooked soup.'
 - b. Ngi-bone u-mama.1sg.s-see.PST laug-1mother'I saw mother.'
 - c. Ngi-nike u-mama a-maluba. 1sg.s-give.PST 1aug-1mother 6aug-6flower 'I gave mother flowers.'

Moreover, Bantu languages lack the kind of restrictions on the distribution of DPs that have been attributed to Abstract Case since Vergnaud 1977. First, as observed by Harford Perez (1985) for Shona, subjects of passive sentences need not move to Spec,IP, where they would receive nominative case (2). Since the passive verb is, in GB terms, not a case assigner, the subject is in a caseless position, in violation of the Case Filter.

(2) Kw-á-uray-iw-a mu-rúmé né-shumba ku-ru-kova.

17s-PST-kill-PASS-FV 1-man by-9lion 17-11-river

'There was a man killed by a lion at the river.' (Harford Perez 1985, Shona)

The lack of A-movement in (2) continued to be problematic in the Minimalist theory of case, in which case licensing was implemented as a "side effect" of agreement (Chomsky 1995 *et seq*). Notice that the in-situ subject in (2) does not control agreement (instead, the verb appears with the locative class 17 agreement, a common default agreement exponent in Bantu languages). In the absence of an Agree relation, the subject's uninterpretable case feature cannot be checked and the derivation is expected to crash.

Further, we find that non-finite clauses in Bantu languages may have overt subjects, as in the following Swahili sentence:

(3) I-na-wezakana (*kwa) Maiko ku-m-pig-i-a Tegani simu. 9s-PRS-possible (*for) Michael INF-1o-beat-APPL-FV Tegan phone 'It's possible for Michael to call Tegan.' (Diercks 2012, Swahili)

In GB, the non-finite I^0 is not a case licensor. In Minimalism, a DP in this position cannot receive case since it does not control agreement (on T or any other head). Nonetheless, an overt subject in (3) is licit, without controlling agreement or being licensed by a preposition.

Finally, many Bantu languages exhibit hyperraising, i.e. raising of a subject out of a finite clause:

- (4) a. [IP proEXPL Zví-no-fungir-wa [CP kuti [IP **mbavhá** y-aka-vánd-á mú-bako]]]. 8EXPL 8s-PRS-suspect-PASS that 9thief 9s-FAR.PST-hide-FV 18-cave 'It is suspected that the thief is hidden in the cave.'
 - b. $[_{IP}$ **Mbavhá**_i i-no-fungir-wa $[_{CP}$ kuti $[_{IP}$ t_i y-aka-vánd-á mú-bako]]]. 9thief 9s-PRT-suspect-PASS that 9s-FAR.PST-hide-FV 18-cave 'The thief is suspected to be hidden in the cave.' (Harford Perez 1985, Shona)

Hyperraising is unexpected due to the role that uninterpretable Case features play in agreement under Minimalist assumptions (Chomsky 2000, 2001): a DP must have an unchecked uCase feature in order to enter

² All Ndebele data come from the author's fieldwork.

in an Agree relation. Since the subject in (4-a) controls agreement on the embedded T, its uCase feature is checked in the embedded clause, rendering the DP inactive for further agreement and raising.

These facts gave rise to the idea that Bantu languages lack case licensing altogether (Harford Perez 1985; Diercks 2012; Diercks & Carstens 2013). If existent, such licensing would have no connection to finiteness or agreement. Indeed, another interpretation of the problematic facts above is that Bantu DPs do have uCase but the checking of this feature is not tied to agreement and finiteness the way it has been claimed for e.g. Indo-European languages (i.a.Ndayiragije 1999; Baker 2003, 2008; Carstens 2005, 2010, 2011; Carstens & Mletshe 2015). In effect, it is impossible to detect case through its interaction with agreement and finiteness.³

It is important to note that the connection between case and agreement posited in Minimalism has been increasingly called into question, for reasons extending far beyond the Bantu language family (Bittner & Hale 1996; Bobaljik 2008; Preminger 2014; Kornfilt & Preminger 2015). In this light, the facts in (2)-(4) can no longer be taken as evidence for the absence of case. However, given the absence of morphological case marking, positive evidence for case licensing in Bantu languages remains extremely scarce, if present at all. Indeed, the discussion of case in the Bantu literature focuses on case as the explanandum, not the explanans. That is, it attempts to explain why case effects are not observed in this language family, rather than using case licensing as an explanation of an empirical puzzle. Instances of the latter type of discussion include Baker 2003 and Carstens & Mletshe 2015. Baker proposes that postverbal subjects in Kinande must be augmentless because they are not in a case position. Unlike DPs with an augment, augmentless nouns do not require case⁴. Similarly, Carstens & Mletshe argue that case is responsible for ruling out Xhosa VSO sentences in which V is a psych-verb and the object has an augment. They attribute this to a constraint banning two inherent cases on a single DP – a constraint that would be violated by the object in such a configuration. Despite using case as an explanation for an empirical puzzle, the restrictions these authors aim to derive are not robust patterns of DP distribution. Rather, they are specific to a single position and/or construction. The general picture, then, appears to be that case effects are either absent in Bantu languages or, due to the nature of case licensing in these languages, they surface only in a few narrow corners of the grammar.

In contrast, Halpert 2012, 2015 argues that Zulu DPs are structurally licensed and that the licensing gives rise to easily observable restrictions on the distribution of nominals. Crucially, however, case licensing is not a requirement for all DPs; only DPs without the so called *augment prefix* must receive structural case. The augment has the form of a vowel and it covaries with noun class (5).

(5) Augmented DPs **u**-muntu, **i**-nja **1aug**-1person **9aug**-9dog (6) Augmentess DPs Ndebele muntu, nja 1person, 9dog

Every DP in Zulu (and in Ndebele, the language analyzed here) exhibits the alternation between (5) and (6). In Zulu and Ndebele, augmentless DPs must either be a wh-item (7) or appear in a negative sentence (8). Note that dropping the augment is always optional.

(7) a. Ba-bona **u**-bani? 2s-see 1aug-1who 'Who do they see?' b. Ba-bona bani? Ndebele
2s-see 1who
'Who do they see?'

³ Van der Wal 2015 argues that Matengo and Makhuwa are languages with abstract Case. Crucially, however, evidence for this claim comes from the fact that the two languages show the familiar abstract case phenomena that most other Bantu languages famously lack.

⁴ It is worth noting that, under this view, augmentless nouns are expected to have a wider distribution than augmented ones, which does not appear to be the case, in Kinande or other Bantu languages. For instance, Baker incorrectly predicts that -Aug nouns should be licit in Spec,TP since that position is caseless in his analysis.

- (8) a. A-ba-boni **u**-mfana.

 NEG-2s-see 1aug-1boy

 'They don't see a/the boy.'
 - c. Ba-bona **u**-mfana. 2s-see laug-lboy 'They see a/the boy.'

- b. A-ba-boni mfana.NEG-2s-see 1boy'They don't see a(ny) boy.'
- d. *Ba-bona mfana.
 2s-see aboy
 ('They see a/the boy.')

The absence of an augment in Bantu languages typically correlates with certain interpretive effects — most notably with focus, indefiniteness or NPI-hood. This can be seen in the negative sentences in (8), in which the augmentless object is interpreted as a narrow scoping indefinite, a meaning characteristic of NPIs. The most salient interpretation of an augmented object in that position is that of a definite or a wide scope indefinite (8-a). Due to these interpretive effects, the augment (or its absence) had previously been treated as morphology reflecting (in)definiteness and/or NPI-hood (Progovac 1993; Ziervogel 1967; von Staden 1973; Giusti 1997; de Dreu 2008; Visser 2008; Taraldsen 2010; Buell & de Dreu 2013; Carstens & Mletshe 2016), rather than as case-related morphology. It is worth noting, however, that [—Aug] is not systematically associated with indefiniteness. Proper names, which are type of definite NP, can be augmentless, too:

(9) A-ba-boni (**u**)-Zodwa.

NEG-2s-see (1aug)-1Zodwa

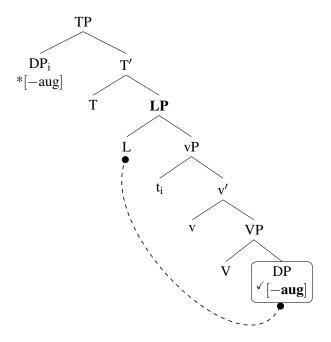
'They don't see Zodwa.'

Ndebele

The availability of augment drop on wh-items further shows that augmentless DPs are not always NPIs, either – recall that wh-items do not require negation in order to be augmentless. Importantly, augmentless wh-items are restricted to the same structural positions as other augmentless DPs. The only difference is that they need not appear in a negative sentence. Halpert proposes that negative polarity and wh-hood are independent licensing requirements for augmentless DPs, which can be thought of as semantic preconditions on their appearance. The distribution of augmentless DPs is *additionally* regulated by purely syntactic factors, and her theory is a theory of the structural (not the semantic) licensing conditions.

Building on observations in previous literature, Halpert proposes that there is no case associated with T or the Spec,TP position in Zulu, and that case licensing is not linked to movement or agreement. Rather, a single licensor, located located right above vP, assigns structural case to the highest DP in its c-command domain (i.e. inside the vP). In an SVO sentence, such as (10), the object is the only, and thus the highest, DP inside the vP. It may therefore be licensed as augmentless.

(10) *(U)-Zodwa a-ka-pheki (i)-suphu. Ndebele 1aug-Zodwa NEG-1s-coook 9aug-9soup 'Zodwa didn't cook soup.'



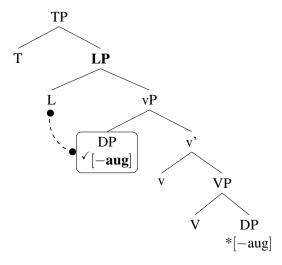
The subject, having undergone movement to Spec, TP, is outside of the licensor's domain and consequently may not be augmentless.

The licensing pattern changes if the subject remains in-situ, as in the Transitive Expletive Construction in (11). Here, the subject is licensed (augmentless) as it is the highest DP in the vP. This, in turn, blocks the licensing of the object, which now must have an augment.

(11) A-ku-pheki (**u**)-Zodwa *(i)-suphu.

NEG-17s-cook 1aug-Zodwa 9aug-9soup
'Zodwa_{Foc} didn't cook soup.'

Ndebele



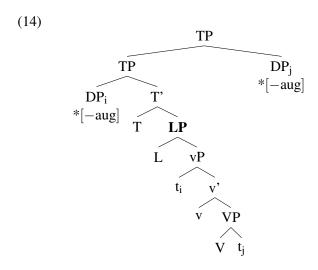
The third pattern of licensing is an SVO sentence with object agreement. Agreed-with objects in Zulu and Ndebele may not be augmentless (12).

(12) *(U)-Zodwa a-ka-**yi**-pheki *(i)-nyama. 1aug-Zodwa NEG-1s-9o-cook 9aug-9meat 'Zodwa didn't cook meat.' Ndebele

Halpert explains this restriction by an independently motivated claim that agreed-with objects are always dislocated (i.a. Van der Spuy 1993; Buell 2005, 2006; Cheng & Downing 2009; Adams 2010). Object dislocation is evident from the obligatory placement of the object to the right of a vP-level adverb, as in the Ndebele sentence in (13).⁵

(13) U-Zodwa a-ya-yi-pheka { √ kahle} i-nyama {*kahle}. Ndebele 1aug-Zodwa 1s-DSJ-9o-coook well 9aug-9meat well 'Zodwa didn't cook meat well.'

Dislocation brings the objects outside of the vP and thus outside of the c-command domain of the licensor. Following Van der Spuy 1993; Buell 2005, I analyze right dislocated objects as adjoined to TP.



In the structure above, there is no DP left inside the vP, and thus no DP receives structural case. Consequently, both the subject and the object must have an augment.

To summarize, we've seen three patterns⁶ of augment distribution in transitive sentences: SVO with an in-situ object, VSO and SVO with a dislocated object (diagnosed by the presence of object agreement) (15).

(15)		Subject	Object	
	SV [vP O]	*[-Aug]	√[-Aug]	object may be augmentless, subject cannot
	$V[_{vP} SO]$	$^{\checkmark}[-Aug]$	*[-Aug]	subject may be augmentless, object cannot
	$SV[_{vP}]O$	*[-Aug]	*[-Aug]	neither subject nor object may be augmentless

The distribution [-Aug] nominals presented in (15) is captured by Halpert's proposal, in which an augmentless DP must be the highest DP inside the vP. Augmented DPs occur elsewhere.

In this theory, DPs with an augment still raise the familiar questions about case discussed above – structural restrictions on their distribution are extremely difficult to find. Thus, previously proposed theories of case in Bantu, which explain the (apparent) absence of case phenomena in those languages, might indeed be needed, but only pertaining to augmented DPs. Halpert's own proposal for augmented DPs is that they are

⁵ Some speakers do accept dislocated low adverbs. For those speakers, adverb placement is not a reliable dislocation diagnostic. An additional diagnostic for dislocated objects is the so called *disjoint* form of the verb (here, the prefix *ya*). Disjoint forms appear when there is no phrasal material in the vP. Negative forms of the verb do not have a separate disjoint form, however.

⁶ Zulu has a fourth context: in expletive ditransitives (V-S-IO-DO), the indirect object cannot be augmentless or narrowly focused (Halpert 2012, 2015; Carstens & Mletshe 2016). I do not consider this configuration since Ndebele speakers find expletive ditransitive constructions significantly degraded, irrespective of focus/augment. Regardless, the present goal is to show that there exist positions in which [-Aug] and focus do *not* overlap. Another instance of an overlapping distribution does not change this fact.

inherently case-marked (by the augment) and are therefore not limited to specific structural positions. An important discovery in Halpert's work, and the one that's relevant here, is that, if we set augmented DPs aside and look exclusively at augmentless DPs, we find what has been thought to be absent in Bantu languages: generalizations about the distribution of nominals, observed in a variety of syntactic contexts, captured by a simple mechanism of structural case licensing.

The case-based analysis of augmentless DPs in Zulu has been recently challenged by Carstens & Mletshe (2016), who argue that their distribution is governed by focus, not case. Zulu and related Bantu languages exhibit a high level of discourse-configurationality – there are designated focus and topic positions. Focus positions are diagnosed e.g. by the possibility of modifying a DP with the focus particle *kuphela* 'only'. The key empirical argument Carstens & Mletshe (2016) present is that augmentless DPs have the same distribution as DPs modified by 'only'. Thus, *only*-DPs are impossible preverbally (16-a), but are licit as in-situ subjects (16-b).

- (16) a. *[**U-Zodwa kuphela**] u-pheka i-nyama. cf. (10) Ndebele 1aug-1Zodwa only 1s-cook 9aug-9meat Intended: 'Only Zodwa cooks meat.'
 - b. Kupheka [**u-Zodwa kuphela**] i-nyama. cf. (11) 17s-cook 1aug-1Zodwa only 9aug-9meat 'Only Zodwa cooks meat.'

They may be objects of SVO sentences but not of VSO sentences:

- (17) a. U-Zodwa u-pheka [i-nyama kuphela]. cf. (10) Ndebele laug-1Zodwa 1s-cook 9aug-9meat only 'Zodwa cooks only meat.'
 - b. *Kupheka u-Zodwa [i-nyama kuphela]. cf. (11) 17s-cook 1aug-1Zodwa 9aug-9meat only Intended: 'Zodwa cooks only meat.'

Finally, *only*-DPs are impossible as dislocated objects:

(18) a. *U-Zodwa u-ya-yi-pheka [i-nyama kuphela]. cf. (12) Ndebele 1aug-1Zodwa 1s-DSJ-9o-cook 9aug-9meat only Intended: 'Zodwa cooks only meat.'

Another type of focused DP discussed by Carstens & Mletshe are interrogative pronouns. They have the same distribution as DPs modified by *only*, which the authors explain by treating wh-items as inherently focused. Thus, wh-items cannot be preverbal subjects but they can be subjects in VSO constructions (19). They can be objects in SVO but not in VSO (20). Finally, they cannot be dislocated (21).

- (19) a. * **U-bani** u-bone u-Florence. 1aug-1who 1s-saw 1aug-Florence ('Who saw Florence?')
- (20) a. U-Zodwa u-bone **u-bani**.

 1aug-Zodwa 1s-saw 1aug-1who
 'Who did Zodwa see?'
- (21) *U-Zodwa u-**m**-bonile **u-bani**? 1aug-Zodwa 1s-1o-saw 1aug-1who ('Who did Zodwa see?')

- b. Ku-bone **u-bani** u-Florence? 17s-saw 1aug-1who 1aug-Florence 'Who saw Florence?'
- b. *Ku-bone u-Zodwa **u-bani**? 17s-saw 1aug-Zodwa 1aug-1who ('Who did Zodwa see?')

Ndebele

The overlapping distribution of focused DPs and augmentless DPs is summarized in (22)-(23).

Crucial to Carstens & Mletshe's argument is the observation that focused DPs need not be augmentless. In (16-a)-(18-a), all DPs modified by *only* have an augment. Since Halpert's theory is specific to [-Aug] DPs, it cannot derive the parallel between (22) and (23). An independent mechanism would be needed to derive licit focus positions, incidentally outputting the same set of position as the case-licensing mechanism. Carstens & Mletshe argue, reasonably, that missing the obvious parallelism is undesired. Instead, they propose that (22) is really a subcase of (23). They take [-Aug] DPs to be NPIs and assume that NPIs bear a [+Foc] feature. This feature is also present on DPs modified by *only* and on wh-phrases. Under this view, there is no need for a separate case licensing mechanism deriving the distribution of augmentless DPs. Their distribution falls out from a more general distribution of focused DPs. 8

While Carstens & Mletshe's argument is convincing, it turns out to be empirically incorrect when confronted with a broader set of facts. Based on Ndebele data, I show in the next section that the distribution of focused DPs and [-Aug] DPs is not fully overlapping. Moreover, the non-overlapping set of contexts is predicted by Halpert's case-licensing theory. All data in the remainder of the paper come from Ndebele.

3 Evidence against reducing [-Aug] licensing to focus

Recall that, unlike other DPs, wh-items need not cooccur with negation to be augmentless. The configurational constraints discussed above are all that governs the distribution of augmentless wh-items. According to Carstens & Mletshe 2016, an augmentless DP is a type of focused DP. Thus, any position in which focused DPs are allowed is a position in which augmentless DPs are allowed. The consequence for wh-items, which Carstens & Mletshe take to be invariably focused, is that they can always be augmentless. This is indeed what Carstens & Mletshe show is true in Zulu and Xhosa, and the facts they give as illustration can be reproduced in Ndebele. As long as the wh-item appears in a licit focus position, it can be augmentless (24-b), (25-a). Similarly, non-focus positions are incompatible with wh-items, whether the wh-phrase has an augment or not ((24-a), (25-b) and (26)).

- (24) a. * (U)-bani u-bone u-Florence. 1aug-1who 1s-saw 1aug-Florence ('Who saw Florence?')
- (25) a. U-Zodwa u-bone (u)-bani. 1aug-Zodwa 1s-saw aug-1who 'Who did Zodwa see?'
- (26) *U-Zodwa u-m-bonile (u)-bani? 1aug-Zodwa 1s-1o-saw 1aug-1who ('Who did Zodwa see?')

- b. Ku-bone (u)-bani u-Florence? 17s-saw 1aug-1who 1aug-Florence 'Who saw Florence?'
- b. *Ku-bone u-Zodwa (u)-bani? 17s-saw 1aug-Zodwa 1aug-1who ('Who did Zodwa see?')

⁷ In fact, the augment is obligatory there since the sentences lack negation (and they are not wh-items).

⁸ Carstens & Mletshe briefly discuss one potential problem for their claim, also observed in Buell 2009; Halpert 2012. While objects in VSO sentences cannot be augmentless, they can, at least for some speakers, be wh-items. Halpert interprets this asymmetry as evidence that [-Aug] DPs do not have the distribution of focused DPs. Carstens & Mletshe view it as weak evidence since the speakers who accept wh-items in this position report an emphatic/echo reading of such as wh-question. They tentatively assume that wh-items in echo questions do not have a focus feature, and thus don't constitute counterevidence to their claim that augmentless DPs are a type of focused DPs.

Carstens & Mletshe's prediction that wh-items can always be augmentless breaks down when we consider a broader range of facts. The counterexamples come from the distribution of preverbal subjects in Ndebele. Recall that the preverbal subject position is not a focus position – both in the languages analyzed by Carstens & Mletshe (Zulu and Xhosa) and in Ndebele. However, we have only considered one clause type – matrix indicative clauses. It turns out that preverbal subjects may be focused in other clause types in Ndebele: i) subjunctive clauses (28), ii) relative clauses (29) and iii) participial clauses (30). Embedded indicative clauses are like matrix clauses in that their preverbal subjects cannot be focused DPs (27).

- (27) *U-cabanga [ukuthi **u-bani** u-za-buya]? indicative clause 2sg-think COMP laug-1who 1s-FUT-come Indended: 'Who do you thing will come?'
- (28) U-funa [ukuthi **u-bani** a-buye]? subjunctive clause 2sg-want COMP laug-1who 1s-come.SBJV 'Who do you want to come?'
- (29) U-zwe ingoma [**u-bani** a-yi-hlabelileyo]? relative clause 2sg-heard 9song 1aug-1who 1s-9o-sing.PST.REL 'Who is such that you heard the song that they sang?'
- (30) U-za-pheka [u-bani e-nga-ka-fiki]? participial clause 2sg-FUT-cook-PST.DSJ laug-1who 1s-NEG-yet-arrive 'Who is such that you will cook before they arrive?' (lit. You will cook who not having arrived yet?)

This asymmetry between root(-like) indicative clauses and other clause types is not itself problematic for Carstens & Mletshe's idea to assimilate [-Aug] to focus (and it's a pattern that has been observed in other Bantu languages, e.g. Schneider-Zioga 2007 for Kinande, and partially by Carstens & Zeller (to appear) for Zulu). The problem lies in the fact that the licit focus positions in (28)-(30) are not licit [-Aug] positions:

- (31) *U-funa [ukuthi **bani** a-buye]? subjunctive clause 2sg-want COMP 1who 1s-come.SBJV Indended: 'Who do you want to come?'
- (32) *U-zwe ingoma [bani a-yi-hlabelileyo]? relative clause 2sg-heard 9song 1who 1s-9o-sing.PST.REL Indended: 'Who is such that you heard the song that they sang?'
- (33) *U-za-pheka [bani e-nga-ka-fiki]? participial clause
 2sg-FUT-cook 1who 1s-NEG-yet-arrive
 Indended: 'Who is such that you will cook before they arrive?'

The data in (28)-(33) are a clear case of dissociation of [-Aug] and focus, falsifying the claim that licensing of [-Aug] DPs can be subsumed under an independently needed theory of focus licensing. Carstens & Mletshe do not consider these contexts and so it is unclear if Zulu and Xhosa differ from Ndebele in this respect (see, however, later work by Carstens & Zeller (to appear), who report that the preverbal subject position of subjunctive and relative clauses is for some speakers of Zulu a licit focus position).

This asymmetry between indicative clauses and other clause types disappears if the subject remains in

A reviewer suggests a different interpretation of the impossibility of augmentless nominals in (31)-(33), namely that augmentless nominals are not compatible with all types of focus, and the type(s) of focus they are compatible with is unavailable in the preverbal position. An observation along these lines was made by Van der Wal and Namyalo 2016, who show that [-Aug] is compatible with exhaustive, exclusive and indenfiticational focus, but not with additive focus (particle *even*). Such an alternative is ruled out for Ndebele due to the following facts. We know that augmentless nominals are compatible with exhaustive focus – an augmentless noun can be associated with *kuphela* 'only'.

situ, in which case the subject can be focused and [-Aug] (the paradigm does not contain a relative clause due to an independent ban on relativization across an in-situ subject).

- (34) U-cabanga [ukuthi ku-za-buya **bani**]? indicative clause 2sg-think COMP 17s-FUT-come 1who 'Who do you thing will come?'
- (35) U-funa [ukuthi ku-buye **bani**]? subjunctive clause 2sg-want COMP 17s-come.SBJV 1who 'Who do you want to come?'
- (36) U-za-pheka [ku-nga-ka-fiki **bani**]? participial clause 2sg-FUT-cook 17s-NEG-yet-arrive 1who 'Who is such that you will cook before they arrive?'

We thus arrive at the following distribution of subject DPs ("regular DP" in the table below refers to a non-focused [+Aug] DP).

(37)		regular DP	focused DP	[-Aug] DP
	SV (indicative)	✓	Х	Х
	SV (subjunctive)	✓	✓	X
	SV (relative clause)	✓	1	X
	SV (participle)	✓	1	X
	VS (any clause type)	✓	✓	✓

This mismatch between focus and [-Aug] is not specific to wh-items. DPs associated with the focus particle *kuphela* 'only' are also possible as preverbal subjects of subjunctive, relative and participal clauses:

- (38) Ngi-funa [ukuthi **u-Sipho kuphela** a-buye]. subjunctive clause 2sg-want COMP laug-Sipho only 1s-come.SBJV 'I want only Sipho to come.'
- (39) Ngi-zwe ingoma [**u-Sipho kuphela** a-yi-hlabelileyo]. relative clause 1sg-heard 9song 1aug-Sipho only 1s-9o-sing.PST.REL 'I heard the song that only Sipho sang.'
- (40) Ngi-za-pheka [**u-Sipho kuphela** e-nga-ka-fiki]. participial clause 1sg-FUT-cook 1aug-Sipho only 1s-NEG-yet-arrive 'I will cook when only Sipho is hasn't arrived.'

Like augmentless wh-items, other augmentless nominals are banned in these positions. Recall that non-whitems require c-commanding nagation to be augmentless:

(41) Angifuni [ukuthi *(u-)Sipho a-buye]. subjunctive clause want.1sg.NEG COMP laug-1Sipho 1s-come.SBJV 'I don't want Sipho to come.'

We will see shortly that preverbal subjects in these three clause types can be exhaustively focused (38)-(40). If the distribution of [-Aug] is governed by type of focus and [-Aug] is compatible with exhaustive focus, we incorrectly predict that [-Aug] should be allowed in all positions that can host exhaustive focus, including preverbal subjects (see also the discussion of (38)-(43)).

⁽i) Angibonanga (u-)Sipho kuphela. see.1sg.neg.pst (aug-)Sipho only 'I didn't see only Sipho.'

- (42) Angizwanga ingoma [*(u-)Sipho a-yi-hlabelileyo]. relative clause 1sg-heard.NEG 9song 1aug-1Sipho 1s-9o-sing.PST.REL 'I didn't hear the song that Sipho sang.'
- (43) Angisoze ngipheke [*(u-)Sipho e-nga-ka-fiki]. participial clause
 NEG.FUT.1sg cook.1sg2 1aug-1Sipho 1s-NEG-yet-arrive
 'I won't cook before Sipho arrives.'

The conclusion is straightforward: whatever [-Aug] licensing is, it is not the same mechanism as focus licensing. In the next section, I show that the last column in (37) is predicted by Halpert's case licensing analysis. I then sketch an analysis deriving the middle column – the unavailability of focused preverbal subjects only in indicative clauses.

4 Deriving the imperfect correlation between focus and [-Aug]

4.1 [-Aug] subject positions

The impossibility of [-Aug] licensing in the contexts discussed above can be straightforwardly accounted for by Halpert 2012's structural case theory, in which structural case is assigned to the highest nominal in the vP and is spelled out as an augmentless noun. Assuming that case licensing is clause-bound, preverbal subjects cannot be reached by the matrix licensor due to an intervening clausal boundary:

(44)
$$[TP [LP L [VP ... [clause boundary [TP subject [LP L ...]]]]]]]$$

This is true for preverbal subjects of indicative, subjunctive and relative clauses alike.

The case of participial adjunct clauses, such as (45) (repeated from (30)), is less transparent – they have no complementizer or other ostensibly left peripheral material.

(i) Angifuni [ukuthi ku-buye (u-)Sipho]. want.1sg.neg COMP 17s-come.SBJV 1aug-1Sipho 'I don't want Sipho to come.'

Based on a similar observation in Zulu and Xhosa, Carstens & Mletshe conclude that the contrast is not due to non-local negation but due to the preverbal position being incompatible with focus (pp.792-793).

In earlier work, Carstens & Mletshe proposed that [-Aug] nominals must undergo A'-movement to be licensed as NPIs (2015:213). The impossibility of augmentless embedded subjects was attributed to a ban on movement of the embedded subject to a local Abar position as it would trigger the *that*-trace effect (following Kayne's (1981) account of the French *personne*-NPI). This account is challenged by the following fact: embedded subjects in Ndebele subjunctive clauses *can* be augmentless iff the complementizer is augmentless itself, i.e. *kuthi* rather than *ukuthi* (see Pietraszko 2019 for an account of the complementizer augment):

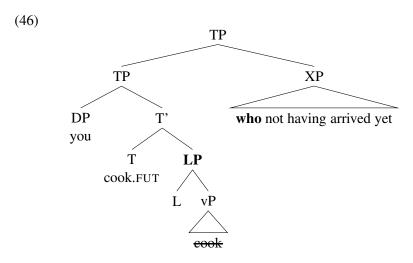
(ii) Angifuni [kuthi (u-)Sipho a-buye]. (cf. (41)) want.1sg.neg COMP laug-1Sipho 1s-come.SBJV

Carstens & Mletshe 2015 would be forced to make the odd stipulation that *that*-trace effect doesn't arise if the complementizer is augmentless. In contrast, (ii) resembles cases reported in Rackowski & Richards 2005 where agreement/licensing of a phasal category (here CP) voids its phasehood, allowing interaction with embedded material. Thus, (ii) can be viewed as further supporting the case-licensing view. Moreover, since wh-items are not licensed by negation, Carstens & Mletshe (2015) do not explain why augmentless wh-items cannot appear in the preverbal subject position either (a gap they eliminate in the later, focus-based account). Note that the complementizer form is kept constant throughout the paper (*ukuthi*) to avoid any confounds.

¹⁰ The impossibility of augment drop in these contexts is not due to the absence of *clausemate* negation: if the embedded subject stays in situ, it can be augmentless, despite negation being in the higher clause:

(45) U-za-pheka [u-bani e-nga-ka-fiki]? participial clause 2sg-FUT-cook 1aug-1who 1s-NEG-yet-arrive 'Who is such that you will cook before they arrive?' (lit. You will cook who not having arrived yet?)

It is less obvious, then, that the category of the adjunct is itself opaque for case licensing. What I believe is crucial, however, is the height of adjunction relative to the licensor. It appears that the adjunct clause attaches outside of the c-command domain of the licensor, as shown in (46). This is perhaps not surprising given that the events expressed by the matrix clause and the adjunct are ordered temporally with one another, suggesting an adjunction site within the tense domain.



The vP external position of adjuncts cannot be diagnosed by the conjoint/disjoint alternation because even high temporal adjuncts in Ndebele can follow a conjoint form when they are narrowly focused (47) (see i.a. Buell 2006; Cheng & Downing 2009; Halpert 2016 for similar facts in Zulu). Despite following a conjoint form, the adverb 'yesteday' appears to be outside of vP based on relative order with a vP-level adverb (48).

(47) Ngipheke izolo. (48) Ngipheke {*izolo} kahle {√izolo}. cooked.1sg.CNJ yesterday cooked.1sg.CNJ yesterday well yesterday 'I cooked YESTERDAY.' 'I cooked well yesterday.'

Finally, all clause types allow an augmentless subject as long as it remains inside the vP. This is expected since, in this position, the subject is locally c-commanded by the embedded licensor. Thus, Halpert's case licensing theory correctly derives the attested distribution of [-Aug] subjects – the last column in (37).

4.2 Focused subject positions

Carstens & Mletshe 2016, following Sabel & Zeller 2006; Zeller 2008, account for the topical nature of preverbal subjects by assigning an anti-focus status to that position. Recall that they consider only indicative clauses. In order to account for the difference between indicative and other clause types in the middle column of (37), their analysis would have to stipulate that Spec,TP is an anti-focus position only in indicative clauses.

A different way to implement this distinction is to posit that the preverbal subject position in indicative clauses is not Spec,TP (unlike in the other clause types). Rather, it's a higher position – call it Spec,TopP, following previous literature on the topical nature of preverbal subjects (Bresnan & Mchombo 1987; Letsholo 2002; Baker 2003; Henderson 2006; Schneider-Zioga 2000, 2007; Bliss & Storoshenko 2009; Pietraszko 2017; Carstens & Zeller to appear, among others). By hypothesis, narrowly focused phrases cannot be peripheral and must instead appear within the TP.

I propose that the indicative periphery in Ndebele has the shape in (49)-a. Subjunctive clauses are smaller, as shown in (49)-b. (For similar proposals of reduced periphery in certain clause types, see e.g. Zeijlstra 2008; Haegeman 2006, 2010, and for Zulu specifically, Carstens & Mletshe 2016.)

(49) a. Indicative:
$$\begin{bmatrix} ForceP \ Comp \ TopP \ Subject \ FinP_{Ind} \end{bmatrix} \begin{bmatrix} FinP_{Ind} \ FinP_{Sbiv} \ Comp \end{bmatrix} \begin{bmatrix} TP \ Subject \end{bmatrix}$$

In the absence of ForceP, I assume that the complementizer *ukuthi* is located in Fin in subjunctive clauses. The two are illustrated in (50), which also shows the asymmetry between them in allowing preverbal focus:

- (50) a. Ngi-cabaga [ForceP ukuthi a-bafana (*kuphela) ba-za-pheka.] indicative 1sg-think COMP 2aug-2boys (*only) 2s-FUT-cook 'I think that (*only) the boys will cook.'
 - b. Ngi-funa [FinP] ukuthi a-bafana **kuphela** ba-pheke.] *subjunctive* 1sg-want COMP 2aug-2boys only 2s-cook.SBJV 'I want it to be the case that only the boys cook.'

Subjunctive clauses lack TopP, the only preverbal subject position being Spec,TP. Unlike Spec,TopP, Spec,TP is a position compatible with focus, deriving the contrast in the availability of *only* in (50). ¹¹

Independent evidence for the reduced periphery of subjunctive clauses comes from negation marking; in indicative clauses it is a prefix on the entire verbal complex, including the subject agreement prefix (51).

(51) Ngi-cabaga ukuthi a-bafana **a**-ba-pheki. *indicative* 1sg-think COMP 2aug-2boys NEG-2s-cook 'I think that the boys do not cook.'

I assume that this prefix is an exponent of Σ – the head of a left-peripheral polarity phrase, shown in (49)-a. The high negation marker is unavailable in subjunctive clauses (52-a), revealing the lack ΣP . Instead, negative morphology in this clause type appears below the agreement-hosting category (52-b). ¹²

- (52) a. *Ngi-funa ukuthi a-bafana **a**-ba-pheki. *subjunctive*1sg-want COMP 2aug-2boys NEG-2s-cook
 Indended: 'I want it to be the case that only the boys will cook.'
 - b. Ngi-funa ukuthi a-bafana ba-**nga**-pheki.
 1sg-want COMP 2aug-2boys 2s-NEG-cook
 'I want it to be the case that only the boys will cook.'

Relative and participial clauses show the same reduced-size effects: in addition to allowing focused subjects, negation is obligatorily marked by the low negative prefix (53)-(54).

(53) a. U-za-pheka [ngi-nga-ka-fiki]. participial clause 2sg-FUT-cook 1sg-NEG-yet-arrive 'You will cook before I arrive."

The topicality of preverbal subjects in Bantu has been shown to be different than the topicality of unambiguously dislocated phrases (including dislocated subjects). For instance, Halpert 2012; Van der Wal 2009 show (for Zulu and Makhuwa, respectively) that quantified DPs can appear as preverbal subjects, but cannot be dislocated. This is true in Ndebele as well. Preverbal subjects in these languages are then perhaps better characterized as resisting narrow focus (cf. Zeller (2008)'s antifocus feature). This means that Spec, TopP, the subject position in indicative clauses, is not a dislocated position. It's a positions that always attracts the subject DP, bringing it out of the focus field. See Bliss & Storoshenko 2009; Pietraszko 2017 for an analysis of Top⁰ as an agreement probe which, due to locality, always attracts the subject to its specifier.

¹² See Buell 2005; Pietraszko 2018 for analyses of negation in Zulu and Ndebele respectively proposing two Σ Ps/NegPs – one in the left periphery and the other below T.

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    b. *U-za-pheka [ a-ngi-(ka)-fiki].
    2sg-FUT-cook NEG-1sg-(yet)-arrive
    Indended: 'You will cook before I arrive.'
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Intended: 'You sang the song that I don't like.'

a. U-a-hlabela i-ngoma [e-ngi-nga-yi-thandayo]. relative clause 2sg-PST-sing 9aug-9song REL-1sg-NEG-9o-like.REL 'You sang the song that I don't like.'
 b. *U-a-hlabela i-ngoma [{a}-e-{a}-ngi-yi-thandayo]. 2sg-PST-sing 9aug-9song {NEG}-REL-{NEG}-1sg-9o-like.REL

It is possible that relative and participial clauses are even smaller than subjunctive clauses as they lack an overt complementizer. ¹³ Their exact category is not crucial, however. What matters is that their periphery is at least as reduced as that of subjunctive clauses, with the consequence that preverbal subjects appear in Spec, TP – a focus-compatible position.

Finally, since in-situ subjects are not in Spec, TopP, there is no restriction on their non-topical nature. We then arrive at the distribution of focused subjects in (37) (middle column), i.e. where the ban on focused subjects holds only for preverbal subjects of indicative clauses.

We have seen in this section that the non-overlapping set of contexts for [-Aug] and focused DPs follow from Halpert's case licensing theory for [-Aug] nominals and a fairly straightforward view of the left periphery in various clause types. It is important to keep in mind that the main claim, i.e. that [-Aug] cannot be reduced to focus, holds irrespective of what analysis we adopt to derive licit focus positions.

5 Conclusion

I demonstrated that reducing [-Aug] licensing in Ndebele to focus licensing is impossible. I further showed that the case-theoretic approach to augmentless nouns proposed in Halpert 2012, 2015 predicts exactly the contexts in which [-Aug] and focused come apart – preverbal subjects of clauses which don't require their subjects to be topical (all but declarative indicative clauses). Importantly, [-Aug] cannot be reduced to other semantic categories, either: augmentless nouns are not systematically NPIs (wh-items don't need negation to be augmentless), nor are they invariably indefinites (proper names can be augmentless, as well). This means that, despite their frequent interpretation as NPIs, indefinites and focused DPs, augmentless nominals are coextensive with none of them.

The question remains why focus and [-Aug] positions show significant overlap in Ndebele. I believe this is due to independent properties of the language, namely that all DPs that are left-peripheral or right-dislocated are necessarily topical and focus tends to be assigned in situ.¹⁴ Since argument licensing is vP-internal, augmenless DPs are most likely to be either in narrow focus or part of wide predicate focus. Being vP-external, topic phrases will never be licensed as augmentless. Spec,TP – the preverbal subject position in reduced clause types – is the only position that is neither dislocated (topical) nor c-commanded by the licensor. It is, then, only in this narrow structural window that we can see the coming apart of argument licensing and focus.

A further cross-Bantu issue remains: why does the lack of augment so often correlate with indefiniteness, NPI-hood and focus in this language family? While a more insightful answer is likely possible, it is not uncommon for case to correlate with such interpretive effects (differential argument marking, Genitive of Negation in Russian (Babby 1980; Babyonyshev 1996 a.o.). Moreover, it is not my conclusion that [-Aug]

¹³ The relative marker *a* (and its class-covarying variants) has been analyzed as the relative complementizer (Khumalo 1992; Demuth & Harford 1999; Zeller 2004, 2006; Cheng 2006; Henderson 2006, 2007, among others). For a different treatment of the *a* marker, namely as a nominal linker, see Pietraszko 2019. This analytical choice is not crucial here.

¹⁴ The only construction that resembles focus fronting is in fact a cleft, in which the focused phrase follows an existential predicate.

licensing is structural case in all Bantu languages. What I do conclude is that Ndebele is a Bantu language in which nominals with special morphology are restricted to a structurally predicable set of positions, and that, despite many attempts, this distribution has not been shown to be coextensive with the distribution of any semantically defined class of DPs. This I consider compelling evidence for the existence of structural case.

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