On the syntactic and semantic properties of *doo* in Mandinka

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Introduction

1. Comparisons

•	English some	
(1)	a. Some students smoked.	(existence of plurality)
	b. Every girl loves some boy.	(weak indefiniteness: $\forall > \exists; \exists > \forall$)
	c. Some of the students smoke.	(subset-superset relation)

• Mandinka *doo* encodes similar properties.

Existential doo (existence of plurality)

(2)	Beri	doo-lu	boj-ta	
	Stone	some-Pl	fall-PERF	
	'Some	stones fell.'		(42:7)

Weak indefinite doo

(3)	Kambani	doo	lafita	suŋkutoo-lu	bee	la		
	Boy	some	like	girl-Pl	all	LA.		
a)	There is some boy who likes every girl.							
b)	For every girl	of the girl.	$(\forall > \exists)$					

Partitive doo (subset-superset relation)

(4)	Beri	doo	kulijaa	fiŋ*(o- lu)	boj-ta
	Stone	some	heavy	black-Pl	fall-PERF
	'Some hear	vy black st	ones fell.'		

- However, this is not entirely true:
 (i) Syntactically, *doo* can appear in different positions within DP, which involves some N-movements for the derivation of surface word order.
- (ii) Semantically, the interpretations of *doo* correspond to the syntactic environment in which it occurs.

2. Goal:

- This article aims at investigating the syntactic and semantic properties of *doo* in Mandinka.
- Proposal: the basic meaning of *doo* is indefinite, which expresses existential
- That means, the interpretation of *doo* is conditioned by syntactic environments.

Distribution of doo

1. Partitive doo

• The following examples which have the same interpretation 'Some heavy black stones fell'.

Patter	n 1 2 0 +Adi1+Adi2	- <i>o-lu</i>] =	(4)				
(5)	Beri Stone	doo some	kulijaa heavy	l	fiŋ*(o- lu) black-Pl	boj-ta fall-PERF	
Patter	n 2						
[N+A	dj1+Adj2+ <i>dod</i>	p-o-lu		C.		1 • .	
(6)	Stone	heavy	L	fiŋ black	doo*(-lu) some-Pl	fall-PERF	(12c)
Patter	m 3						
[N+A	dj1+ <i>doo</i> +Adj2	2- <i>o-lu</i>]					
(7)	Beri Stone	kulijaa heavy	L	doo some	fiŋ*(o- lu) black-Pl	boj-ta fall-PERF	(12b)
2 Negat	Doo in nonve	eridical e	nvironr	nents			
(8)	Beri <i>doo</i> Stone some '(As for the h	kulijaa heavy neavy sto	ones,) no	fiŋ black one of t	kiliŋ(* o-lu) one he black ones l	maŋ boj NEG fall nave fallen.'	(42: 14)
Interr	ogatives						
(9)	Musa je	banani	doo(*	*-lu)	domo baŋ?		
	Musa PST 'Did Musa ea	banana at any ba	a some nanas?	,	eat Q		(42: 42)
If-con	ditionals						
(10)	Nii wuloo je If dog per	banani F banana	<i>doo</i> (* some	*- <i>lu</i>) d ea	omo, a te at 3SG FUT.N	kuloo-lu do JEG bone-Pl ea	omo la. at LA
	'If the dog ea	its any ba	anana, h	ne will 1	not eat the bone	es.'	(42: 43)
3	Weak indefin	ite doo					
(11)	Kambani	<i>doo</i> (*c	o-lu)	lafita	suŋkutoo-lu	bee la	(=(3))
	Boy There is some	some	a likaa	like	girl-Pl	all LA.	
a) b)	For every gir	l, there is	s some	boy wh	o likes each of	the girls.	(V< E) (E<∀)
(12)	moo-doo Person-some 'Did someon	e fall?'	boj-ta fall-PE	ERF	baŋ Q		

The weak indefinite doo can also occur with numerals.

Context 1: Two *specific* children fell, among many children of my children and I know which ones fell (e.g. Musa & Maggie).

(13) N-na dindíŋ fula boj-ta. 1SG-Poss child two fall-PERF 'Two of my children fell.'

Context 2: Among my many children, two of them fell. I don't know which two.

(14) n-na dindíŋ *doo* fula boj-ta. 1SG-Poss child some two fall-PERF 'Two of my children fell.'

Theoretical background

1. Feature-driven movement: Bhattacharya (1999)

- Bhattacharya (1999) proposes that the Bangla DP is a three-layered structure and the intermediate layer which is between DP and NP is a QP.
- The Q head is a fusioned head which encodes Q, Num and Cl.
- Specificity effect is obtained within the DP by moving specific NPs to the specifier of QP.
- The leftward movement of NPs is driven by feature checking of the feature [specificity] in Q head.

• The basic word order of Bangla DP: Dem-Num-Cl-N

(15)	ei	du-To	boi	(deictic)
	This	two-cla	book	
	'these	e two books (here)'	(Bhattacharya 1999: (20a))

The basic structure of Bangla DP: (16)



(Bhattacharya 1999: (25))

• The word order within the DP is Dem-N-Num-Cl if the DP denotes specificity. (vs. (15))

(17)	ei	boi <i>i</i>	du-To	t_i	(specific)
	This	book	two-cla	t	
'these two books'					(Bhattacharya 1999: (20b))

2. Proposal for the NP-movements (Bhattacharya 1999: (39)):

- (18) A presuppositional/ specific feature of the Q head drives leftward movement.
- The specificity is assumed as a presupposition: a specific NP moves out of its immediate nP-shell to a higher position (Diesing 1992)
- The idea is illustrated with the following examples.

(19)	a.	Oi	du-To)	lal	boi	(non-specific)
		Those 'those	two-c two re	la d books	, red	book	(Bhattacharya 1999: (43b))
	b.	oi those	lal red	boi book	du-To two-cla	a	(specific)
		'those	two re	d books	,		(Bhattacharya 1999: (43b))

• Specificity of (19b) is yielded by moving the NP to the SpecQP that featurechecking of [specificity] is the motivation for the leftward movement.





(Bhattacharya 1999: (44))

Extended analysis in Mandinka

1. Revised part:

- The case in Mandinka is not the same as Bangla in many ways.
- (1) NumP is a separate functional projection from QP.
 - Q is not a fused head which contains Q, Num and Cl. Num and Cl should belong to separated projections.

(2) APs in Mandinka, I suggest, are located in the specifier of some functional projection (FP), following Cinque's analysis (1992, 1994) of multiple functional projections with the DP.

(3) I will extend Bhattacharya's analysis of feature-driven movement and propose, which is not new, that a [definiteness] feature is filled in D head and it needs to be checked. By assuming this, something has to move to SpecDP and check the [definiteness] feature.

- In the case of Mandinka, if the definite article o(-lu) occurs, QP will move to SpecDP for obtaining definiteness.
- If there lacks definite articles, QP has to stay in its base-generated position, but NP/ XP has to move SpecDP for EPP effect. In this case, the whole DP remains indefinite.

2. Cinque's (1992, 1994) analysis: the APs should appear in specifiers of some DP-internal functional projection:

(21)



2. The basic structure of Mandinka DPs is proposed as below:

(22)



Implementations



The derivation of pattern 1 [N+*doo*+Adj1+Adj2-*o-lu*] is as follows:

(i) NP moves to SpecXP and lands at SpecQP, which is driven by feature checking of [specificity] in Q.

(ii) The word order of [N+*doo*+Adj1+Adj2] is resulted from the NP-movements in (i).

(iii) The whole QP moves to SpecDP, driven by feature checking of [definiteness] in D, for the existence of definite article o(-lu).

(iv) The resulting word order is [N+*doo*+Adj1+Adj2-*o-lu*].

Patter	n 2					
[N+A	dj1+Adj2+	doo-o-lu]				
(25)	Beri	kulijaa	fiŋ	doo*(-lu)	boj-ta	
	Stone	heavy	black	some-Pl	fall-PERF	(12c)

(26)



The derivation of pattern 2 [N+Adj1+Adj2+ *doo-o-lu*] is as follows:

(i) NP moves to SpecXP, resulting in the word order [N+Adj1+Adj2].

(ii) XP ([N+Adj1+Adj2]) moves to SpecQP and checks the feature [specificity] in Q. The word order becomes: [N+Adj1+Adj2+ *doo*]

(iii) The whole QP moves to SpecDP and checks the feature [definiteness] in D, for the existence of definite article o(-lu).

(iv) The resulting word order is [N+Adj1+Adj2+ *doo-o-lu*].

Patter	rn 3					
[N+A	dj1+ <i>doo</i> +A	Adj2- <i>o-lu</i>]				
(27)	Beri	kulijaa	doo	fiŋ*(o-lu)	boj-ta	
	Stone	heavy	some	black-Pl	fall-PERF	(12b)

(28)



The derivation of pattern 3 [N+Adj1+ *doo*+Adj2-*o-lu*] is as follows: (i) NP first moves to SpecFP2 and yields the word order [N-Adj]. (ii) the whole FP2 moves to SpecXP and lands at SpecQP, checking the feature [specificity] in Q. The word order then becomes: [N+Adj+*doo*+Adj.] (iii) The whole QP moves to SpecDP and checks the feature [definiteness] in D, for the existence of definite article *o(-lu)*. (iv) The resulting word order is [N+Adj+*doo*+Adj-*o-lu*].

4.2 Weak indefinite *doo*

Recalling that examples involving WI *doo* prohibits the occurrence of the determiner *-o* and plural marker *-lu*. The lack of definiteness shows that there is no feature checking of [definiteness] in Q.

(29)	kambani	dzaŋaaja	doo	kíliŋ	bój-ta
	Boy	tall	some	one	fall-perf
	one).'				

(30)



The derivation of the word order in [N-(Adj)-doo-Num] is as follows:

(i) NP moves to SpecXP and yields the word order [N-Adj].

(ii) the XP moves to SpecQP checks the feature [specificity] in Q. The word order then becomes: [N+Adj+*doo*+Num.]

(iii) The XP continues to move to SpecDP. However, in this case, as there the definite article -o(-lu) does not occur. The moved XP, therefore, cannot check the feature [definiteness] in D.

(iv) However, XP continues to move and lands at SpecDP, for the EPP effect.

(v) This yields the word order [N+Adj+ *doo*+Num].

Remaining issues

- A unified semantic account of *doo* is required.
- Semantic/ pragmatic reasons for *doo* occurring in different positions?
- Prosodic strategy in Bulgarian:

(31)

a. [DEMP tezi [DP vsičkite1 [DP \emptyset [QP t1 [QP \emptyset [NP novi [NP knigi]]]]]] those alldef books

new

b. [DEMP vsičkite1 [DEMP tezi [DP t1 [DP Ø [QP t1 [QP Ø [NP novi [NP knigi]]]]]]] alldef those new books

(Tasseva-Kurktchieva 2006: (31))

References

Bhattacharya, T. 1999. Specificity in the Bangla DP. In R. Singh (ed.), Yearbook on South Asian

languages and linguistics: Vol. 2, 71–99 Thousand Oaks, CA: SAGE Publications.

Chomsky, N. 1995. The Minimalist Program. Cambridge, MA: MIT Press.

Cinque, G. 1992. Functional Projections and N-Movement within the DP. GLOW Newsletter 28: 12–13.

Cinque, G. 1994. Evidence for Partial N-Movement in the Romance DP. In: Paths Towards

Universal Grammar: Studies in Honor of Richard S. Kayne. Guglielmo Cinque, Jan

Koster, Jean-Yves Pollock, Luigi Rizzi, and Raffaella Zanuttini (eds.), 85-110.

Washington DC: Georgetown University Press.

Matthewson, L. 200 1. Quantification and the nature of crosslinguistic variation. Natural

Language Semantics 9. 145-1 89.

Tasseva-Kurktchieva, M. 2006. The categorial status of quantifiers in Bulgarian: Evidence for

DP over QP. In: Lavine J, Franks S, Tasseva-Kurktchieva M, and Filip H (eds) Formal

approaches to Slavic Linguistics, Volume 14. Ann Arbor, MI: Michigan Slavic

Publishers, 378–93.

Valois, D. 2006. Adjectives: Order within DP and attributive APs. In The Blackwell companion

to syntax: Vol. 1, ed. M. Everaert & H. van Riemsdijk, 61-82. Oxford: Blackwell