The Acquisition of Clitics in Swahili

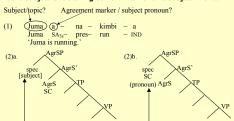
Kamil Ud Deen

kamil@hawaii.edu

Background

Subject Clitic (SC)

Is the Subject Clitic an Agreement Marker or a Subject Pronoun?



Agreement Analysis Pronominal Analysis ➤ Bresnan & Mchombo (1987)
 → In Chichewa, SC = ambiguous agr/pronoun
 ➤ Keach (1995)
 → Same is the case for Standard Swahili.

However:

→ Nairobi Swahili is different from Standard: Subject clitic is AGREEMENT

Evidence

(uestions are possible in Swahili (unlike Chichewa)

	bubject iin questions are p
(3)) nani _i a _i – me –end–a?
	who SA3s-pr.prf-go-IND
	who has gone?
	-

Preverbal DP=subject

II. Idiom subjects resist topicalization:

(4) *Mtindi ni – li – fikir – i kuwa [t] u – me – va - a Asha
Brew Sal₁₋past-finik-IND that Sa₁₋pro.prf.-wear-IND Asha
(lit: (As for) the brew, I thought that it has covered Asha)

Preverbal

quantifiers

cannot be

answers to

questions

Preverbal

Entire

complex

remains a

III. Preverbal DP can be a quantifier (therefore not a topic)

kila mtoto a – li – nunu– a ki – tabu every child SA_{3s}-past–buy–IND 7–book 'Every child bought a book.'

Compare to:

*kila kitabu, a – li – (ki)–nunu– a [t] every thing SA_{3x}–past–(OA₇)–buy–IND [t] 'Every book, she bought'

IV. Answers to questions
(7) Question: nani a - li - fik - a mapema who SA₃--past-arrive-IND early 'Who arrived early?'

?? Juma, a – li – fik – a mapema Juma, SA_{3s}–past–arrive–IND early 'Juma, he arrived early.'

Answer

Juma a - li - fik - a mape Juma SA_{3s}-past-arrive-IND early 'Juma arrived early.'

V. Typological Evidence

ment markers tend to remain close to the verb, in the same configuration with verb Pronominal clitics may move, or other elements may intervene with the verb. See Steele

1995. <u>a - na - m - pend - a</u> Mariam, Juma SA_{3s}-Pres- OA_{3s}- like - IND Mariam Juma 'Juma likes Mariam' Mariam, Juma
Mariam Juma
'(as for) Mariam, Juma likes (her)'

The subject clitic in Nairobi Swahili (unlike Standard Swahili) is a true

agreement marker (henceforth SA).

Object Clitic

Conclusion:

Is the Object Clitic an Agreement Marker or a Subject Pronoun? Evidence

Idiomatic objects do not lose their idiomatic interpretation when clitic occurs:

ni - li-pig-a pasi SA_{Is}-past-hit-IND iron 'I ironed' ni - li - i - pig- a pasi SA_{Is}-past-OA₃-hit-IND iron 'I ironed it' (lit : 'I hit it (with) iron ')

The object clitic in Nairobi Swahili is a Conclusion: true agreement marker (henceforth OA).

Important Property of Object Agreement:

Specificity Condition If object is specific, OA is obligatory (10a), and if object is non-specific, OA is obligatorily absent (10b; Ashton, 1947).

[+OA] → Obligatorily

b. Juma a - li - on - a m - tu Juma SA_{3s}-past-see-IND 1-person 'Juma saw a person / *the person.

[-OA] → Obligatorily

Summary

- 1.Subject Clitic is AGREEMENT
- 2.Object Clitic is AGREEMENT
- 3. Specificity Condition applies to Object agreement.

The Study

Research Questions

- When is SA acquired?
- When is OA acquired?
- When do children acquire the Specificity Condition

The Data

- ➤ Naturalistic data
- ➤ 4 children of varying ages
- Data collected in Nairobi, Kenya
- Transcribed, coded, verified by three native

	able 1. Subject information				
	Child	Haw	Mus	Fau	Has
	Age range	2;2 - 2;6	2;0 - 2;11	1;8 - 2;2	2;10 - 3;1
	No.of recordings	7	23	10	5
	MLU	1.54-2.46	1.52-3.57	2.97-3.93	3.15-4.23
	V Ratio	.0714	.0517	.2036	.3040

Data grouped according to three related measures of grammatical development:
1. Mean Length of Ulterance (Brown, 1973) – in morphemes.
2. Proportion of verbs to total ulterances (Valian, 1991).
3. Proportion of filler syllables (Peters, 2001; Bottari et.al 1993/94).

	Stage 1	Stage 2	Stage 3	Stage 4	
Files from	Hawa 2;2-2;6, Mus 2;0-2;3	Mus 2;4-2;8	Fau 1;8-2;2, Mus 2;9-2;10	Has 2;10-2;11	

Research Question 1: When is SA acquired?

Lots of Omission! (see figure 1)

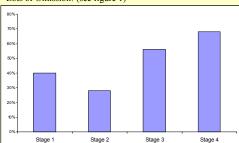


Figure 1. Rate of SA in obligatory contexts.

Answer to Research Question 1:

SA is acquired relatively late – even by stage 4, children are only providing SA in about 70% of obligatory contexts.

Research Question 2: When is OA acquired?

The overall rate of OA in the corpora is relatively low, ranging from 5% to 16%;

Table 3 Rates of OA in each stage

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	Stage 1	Stage 2	Stage 3	Stage 4
Tokens of OA	38 (6%)	27 (5%)	102 (16%)	66 (13%)
Total Verbs	639	535	638	519

→ But this is meaningless, because these are not obligatory contexts.

Problem

How do you tell when specificity and OA are obligatory?

Context: a toy is on the bed near the child, and child says: "I want toy."

- I want that toy
- I want a toy
 I want any toy (just give me one!)
- I want a different toy.
- → Specificity is hard to determine from naturalistic contexts.

Answer to Research Question 2:

Because OA is dependent on specificity, we can't tell when OA is acquired (not from this data). But..

Solution

- Look only at contexts when the object is: - a personal name
- topicalized objects
 1st/2nd person objects
- → These are contexts in which the object is obligatorily specific

Research Question 3: When do children acquire the Specificity Condition?

Table 4. Occurrence of OA in obligatory contexts (personal names, topics,

13/2 person objects).					
	Stage 1	Stage 2	Stage 3	Stage4	
+OA in oblig. Context	21 (78%)	20 (83%)	90 (97%)	49 (100%)	
-OA in oblig. Context	6	4	3	0	
Total	27	24	93	49	

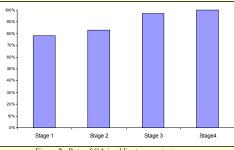


Figure 2. Rate of OA in obligatory contexts.

Answer to Research Question 3: OA is acquired relatively early, unlike SA

- Iternative analysis of these results:
 Swahili children may know that the preverbal position has a slot where a filler syllable occurs (Bottari et al. 1993/94, Peters, 2001).
 They may insert filler syllables indiscriminately without knowing what OA is.
 Thus it appears as if OA is used correctly in obligatory context, but this is just a filler-syllable strategy.
- But, if that were the case, we might expect
 (i) object agreement errors;
 (ii) OA (filler syllables) in intransitive clauses
- Table 5. Object Agreement Error Rate
 Stage 1
 Stage 2
 Stage 3
 Stage 4

 38
 27
 102
 66
- → NOT A SINGLE AGREEMENT ERROR!

Additionally, OA very rarely occurs in intransitive clauses, so children are not

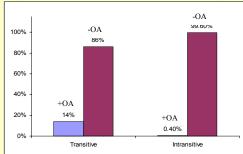


Figure 3. Rate of OA in Transitive and Intransitive Clauses

Conclusion

Conclusion 1: OA is acquired before SA

(contra previous studies, e.g., Basque, Meisel & Ezeizabarrena 1996).

Conclusion 2: Specificity Condition acquired very early (arguably stage 2) (contra Schaeffer 2000, for Dutch)

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