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Patterns of Agreement in Gitigania

Dr. Colomba Kaburi Muriungi

Senior Lecturer, Department of Arts and Humanities, Chuka University, Kenya Lilian Gacheri Ntarangwi

Ph.D. Candidate, Department of Arts and Humanities, Chuka University, Kenya

Abstract:

In this paper we discuss the forms of agreement in Gîtigania. The purpose of the study is to provide detailed patterns of agreement in Gîtigania as hitherto, no studies to explain the syntax of Gîtigania agreement are documented in the language. I demonstrate that there is subject-verb, verb-object and noun modifier agreement in Gîtigania. Morphological marking in Gîtigania is pre-stem. Subject marking is obligatory whether the subject noun phrase is overtly present or not, while object marking is optional. In conventional use, the object marker does not co-occur in the same sentence with the direct object noun phrase. If a sentence has got both the direct and the indirect object in Gîtigania, agreement is usually with the indirect object but not the direct one. There is also noun-modifier agreement in Gîtigania. I also show that most object markers have the same morphological shape as the corresponding subject markers but are distinguished by their position in the verbal template.

1. Introduction

The study has reviewed literature on some of the principles that govern agreement in singular, plural and coordinated noun phrases in English and a few Bantu languages including Kiswahili, Haya, Sambaa and Shupamem. Specifically, this concerns the subject–verb, verb–object and noun–modifier agreement patterns. This is to allow for comparison in the various forms of agreement. The data collected was analyzed using the Minimalist Theory by Noam Chomsky to establish the agreement patterns in Gîtigania. Morphemic breakdowns and tables have been used to analyze the sentences and phrases collected. This study has found that there are subject-verb, verb-object and noun-modifier agreement patterns in Gîtigania. This paper is organized as follows. In section 2, I review agreement. This is based on introduction to agreement, subject agreement with and without conjoins, object agreement with and without conjoins and modifier agreement with conjoins or without. It also shows the Gîtigania noun classes. Section 3, is devoted to the analysis of the forms of Gîtigania agreement in regard to subject-verb, verb-object and noun-modifier agreement in singular, plural and coordinated noun phrases. In section 4, I give the findings of this article while section 5 highlights the conclusions arrived at on Gîtigania agreement.

2. Agreement

Agreement is considered as the modification of the form of one element to match the properties of another element. Its rules mark a constituent X to agree with another constituent Y with respect to such categories as number and person. It concerns the marking of various morph syntactic properties of a head such as person and number features henceforth phi features on the dependents of that head. For instance, within an NP, determiners and attributive adjectives often share the number and person features of the head noun thus agreement is achieved.

According to Kroeger (2006), agreement is a general term used to describe a situation in which the grammatical features of a noun or a noun phrase determine the morphological shape of a word that is syntactically related to the noun or noun phrase in some way. In English for example, a noun like 'teachers' forces a second item in the sentence such as the verb 'teach' to appear in a particular form. Thus in the present tense, it should read as 'Teachers teach always' The verb 'teach' must agree in number with the plural noun 'teachers.' This means that whether the verb is in singular or plural depends on the number of the subject. The result of violating such rules is usually ungrammaticality, ambiguity or unintelligibility.

The word that determines the features of the whole phrase is called the head. The other non-head elements of the phrase that carry the properties of the head are referred to as the dependents of that head (Kroeger, 2006). It therefore means that agreement involves feature sharing where a non-dependent (the head) shares a feature with the dependents. Just like any other language, heads in Gîtigania phrases share features with their dependents.

Gîtigania is one of the dialects of Kimeru language spoken in Meru County which is in Kenya. It serves as the first language in the current Tigania East and Tigania West sub-counties. As a dialect of Kimeru language, Gîtigania therefore belongs to the Bantu language family. Though many people use Gîtigania as their first language, there is limited research in the language.

Bantu languages constitute a large percentage of the world's languages. Michael (2010) notes that 7.5 per cent of the world's languages are Bantu. Nevertheless, these languages have not been well researched. In fact, Michael (2010) says that Bantu languages are woefully under–researched.

One of the most defining characteristics of Bantu languages is the rich noun class systems. Noun class membership is important for marking of agreement. Words in some parts of speech such as verbs and adjectives undergo changes to achieve agreement with the respective nouns that they are used with. This is mostly in regard to number and class. Nouns in particular are organized into classes which trigger agreement. This is as exemplified using Kiswahili in (1).

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(1) Kibaki a li shinda
Kibaki 1 Agr 1 PAST win
'Kibaki won' (Deen 2006: 226)
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As shown in (1), a noun from class 1 requires that the subsequent verb carries an agreement marker (a) for noun class 1 for the sentence to be grammatical. The prefix that appears on a noun determines its particular class.

2.1. Subject Marking in Coordinate Structures

Traditional analysis of subject agreement treats the subject marker as a reflex of agreement features in T whose values are determined by the interpretable phi-features of the subject in [Spec T] (Zeller, 2008). From this, we can predict that if two singular noun phrases belonging to the same noun class are coordinated, one expects that the SM of the respective plural noun class is to be used as illustrated in (2).

(2) a. Jane and Mark play in the school soccer team. (English).

b. Mamana mtoto wake wa li umia. (Kiswahili). 1Mother and 1child hers SM2 PAST hurt.

'The mother and her child got hurt.'

In (2 a), the verb 'play' agrees with the plural subject 'Jane and Mark'. In (2 b), the SM prefixed to the verb is of class 2 which is the plural of class 1 where each of the nouns belongs.

2.1.1. Subject Marking in Coordinate Structures Where Conjuncts Belong to Different Noun Classes

In cases where NPs belonging to different Noun Classes are conjoined, there can be the first conjunct agreement as shown in (3 a) or default agreement (agreement with class 8) as shown in (3 b) or plural agreement as shown in (3 c) or the second conjunct agreement as in (3 d).

```
(3) a. Umalume no
                                                          zingela ehlthin. (Xhosa)
                        zinja
                                         zakhe
                                                 u
                                                          hunt
                                                                  FVLOC forest.
       1Uncle
                         and
                                 10dog his
                                                 SM1
        'Uncle and his dogs are hunting in the forest.' (Zeller 2008: 235)
 b.
        Shimba na
                        kui
                                         laliy
                                                 e. (Sambaa)
                                vi
                                                          PERF.
        9lion
                        and
                                5dog
                                         SM8
                                                 sleep
```

'The lion and the dog slept.'

(Riedel 2009: 194)

c. Shimba na kui wa laliy e. (Sambaa)

9lion and 5dog SM2 sleep PERF.

'The lion and the dog slept.' (Riedel 2009: 194)

d. Chiti na ghumu u ghul iw a (Kiluguru) 7Chair and 3tree SM3 buy PASS fy

'The chair and the tree were bought'. (Marten & Ramdhani 2001: 4)

In (3 a), the verb is prefixed with a subject marker for class 1 which is the class of the first conjunct. So there is first conjunct agreement. There is default agreement in sentence (3 b). The conjoined NPs belong to Noun Classes 9 and 5 and the subject marker attached to the verb is for Noun Class 8 where none of the conjoins belongs. In (3 c), there is plural agreement. The subject marker attached to the verb corresponds to class 2 which marks plural agreement. In (3 d), the SM attached to the verb is for class 3 which is the class of the last conjunct in the verb phrase. Kiluguru therefore allows second conjunct agreement in subject marking.

In other cases, a sentence may lack an overt noun. The expletive is required for morphological reasons. It fills the subject prefix-slot and must be attached to the verb stem at Phonological Form if no SM is present (Baker, 2003). This is illustrated in (4).

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(4) A me iba (Kiswahili)
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1SA PERF steal

'S/he has stolen'

In the sentence, the subject-marker agrees with the silent pronominal element called pro (Rizzi, 1986). In this article, I sought to find out how coordinated NPs from different noun classes mark agreement in Gîtigania.

2.1.2. Coordinate Structures with a Human and a Non-human Animate Noun

Some Bantu languages allow plural agreement when a human and a non-human animate noun are coordinated as illustrated using Haya data (5).

(5) Omushaija n embwa ba a genda. (Haya)

1man and 9dog SM2 PAST go.

'The man and the dog went.' (Riedel 2009: 201)

In (5), there is agreement with the Noun Class 2 which is the plural for Noun Class 1 where the animate noun belongs. However, Riedel also adds that preverbal subject coordination of a human with a non-human animate also allows agreement with Noun Class 8 which is default agreement in Haya as shown in (6).

(6) Ekihuka n' omushaija bi ka nagira. 7insect and 1man SM8 PAST3 sleep. 'The insect and the man slept.' (Riedel 2009: 201)

Riedel concludes that in Haya, which is a Bantu language, subject marking for coordinated subjects where the conjuncts belong to different noun classes only allows two agreement patterns. These are the plural of the animate noun and default agreement. What makes subject marking with conjoined NPs interesting is that languages employ different strategies as to how agreement with two nouns is determined.

2.2. Verb-Object Agreement

In Bantu languages, subject and object marking have different characteristics. The main difference is that subject agreement is obligatory in every sentence that is tensed and has a subject while the object marker is not obligatory in all tensed clauses that have an object (Muriungi, 2008). Object agreement is expressed by the object marker. According to Riedel (2009), an object marker is a morpheme attached on the verb stem, usually in the form of a prefix. The object marker copies the features of the object noun phrase to the verb for instance in (7).

(7). Mama a li m piga mwizi. (Kiswahili) 1Mother SM1 PAST OM1 beat 1thief.

'Mother beat the thief.'

The object marker 'm' which is attached to the verb 'piga' carries the features of 'mwizi' which the object noun phrase belonging to class 1. The object marker is used even in cases where the object noun phrase is not overt as shown in (8).

(8) John a me niona (Kiswahili).

1John SM1 PERF OM1 see

'John has seen me'

In (8), the object marker carries features for a class 1 object which is not lexically present.

Object marking patterns across Bantu languages are diverse. Some require one object marker while others have several. For example we can have more than one object marker in a sentence as exemplified in (9).

(9) N kaki mu gulira ijao mwana (Haya) SM/s PAST OM7 OM1 buyAPPL it7 1child

'I bought it for him/her.' (Riedel 2009: 183)

In the sentence, the object markers 'ki' and 'mu' mark agreement with the two objects used in the sentence respectively. In other cases, multiple object agreement is illicit (Adams, 2010).

In reflexives, the reflexive marker acts as the object marker in some Bantu languages as shown in (10).

(10) Ni li ji nunulia gari (Kiswahili)

SM/s PAST REFL buy APPL car

'I bought a car for myself'

In other Bantu languages, the object marker cannot co-occur in the same sentence with its nominal object as exemplified in (11).

(11) a. Mukundi a ka ringa mwana.) (Gichuka)

Mukundi SM1 FUT hit 1child.

'Mukundi will hit the child.'

b. *Mukundi a ka mu ringa mwana. (Gichuka)

Mukundi SM1 FUT OM1 hit fv 1child.

'Mukundi will hit the child.'

c. Mukundi a ka mu ringa. (Gichuka)

Mukundi SM FUT OM1 hit fv (him/her)

'Mukundi will hit him/her.' (Ndwiga 2008: 46)

In (11 c), 'mu' as an object marker for class one incorporates the nominal object into the verb. Therefore, the nominal object is deleted. This explains why (11 b) is ungrammatical. Ndwiga (2008) concludes that Gichuka does not allow an object marker and its nominal object to co-occur in a sentence.

2.2.1. Object Marking in Coordinate Structures

In Bantu languages, noun phrases belonging to different noun classes can be combined to function as the object in a sentence. Object marking depends on the properties of the conjuncts. The various patterns in coordinated objects include no agreement, first conjunct agreement, second conjunct agreement with the default class (class 8) and plural agreement.

2.2.1.1. Coordination of Non-human but Animate Objects

If the object of a sentence is made up of more than one non-human but animate NPs combined the following strategies may be realized as illustrated using Sambaa data. First, it is possible to have no agreement as shown in (12 a). Secondly, it is possible to have partial agreement as shown in (12 b) and plural agreement as shown in (12 c).

(12) a. N za ona shimba na shui. (Sambaa) SM1 PERF see 9lion and 9 leopard. 'I saw the lion and the leopard.' (Riedel 2009: 194)

In (12 a), the coordinated object does not have any object marker hence there is no agreement. Consider (12 b):

(12) b. N za I ona shimba na shui.

SM1 PERF OM9 see 9lion and 9leopard.

'I saw the lion and the leopard.' (Riedel 2009: 194)

In (12 b), there is one object-marker for the two coordinated objects. Given that the two objects belong to the same noun class, it is not clear whether the OM marks agreement for the first or the second conjunct. Agreement therefore is present but partial. Consider (12 c):

(12) c. N za zi ona shimba na shui.

SM1 PERF OM10 see lion9 and leopard9.

'I saw the lion and the leopard.' (Riedel 2009: 194)

In the (12 c), the OM is for noun class 10 which is the plural for noun class 9 where each of the two NPs belongs. Therefore there is plural agreement.

2.2.1.2. Coordination for Two Human Objects

Where both nouns belong to the same noun class, the strategies realized are exemplified in (13). First, it is possible for there to be no agreement as shown in (13 a). Secondly, there can be an object marker for the class of the coordinated NPs as shown in (13 b) and third, there can be plural agreement as shown in (13 c) using Sambaa data.

(13) a. N za ona mwaimuna ngwana.

SM PERF DJ see teacher1 and child1.

'I saw the teacher and the child.' (Riedel 2009: 194)

In the sentence, there is no OM. So there is no agreement.

b. N za mw ona mwaimu n ng'wana.

SM PERF OM1 see teacher1 and child1.

'I saw the teacher and the child.' (Riedel 2009: 194)

In the sentence, there is one object marker but since both nouns belong to the same noun class, it is not clear whether the singular agreement is first conjunct agreement or second conjunct.

c. N za wa ona mwaimu na ng'wana.

SM1s PERF OM2 see teacher1 and child1.

'I saw the teacher and the child.' (Riedel 2009: 194)

In (13 c), the OM is for class 2 which is the plural form for class 1. So, plural agreement is acceptable.

2.2.1.3. Coordination of Nouns Belonging to Different Noun Classes

In some Bantu languages like Sambaa, if the two coordinated nouns belong to different noun classes, it is clear that first conjunct agreement henceforth FCA is acceptable as illustrated in (14).

(14) N za ji ona kui na shimba. SM1s PERF OM5 see 5dog and 9lion.

'I saw the dog and the lion' (Riedel 2009: 194)

In (14), which is a case of a coordinated object noun phrases, agreement is with the noun next to the verb already explained as the first conjunct.

Object marking with conjoined noun Phrases has attracted some attention for some time (Corbett, 1991). There seems to be a great variation across Bantu languages with regard to object markers. Some languages have object markers while others do not. There are other languages where the object markers may co-occur with the co-referential noun phrases while in others they can not (Henderson, 2011).

2.3. Noun-Modifier Agreement

In almost all constructions, one constituent is usually considered to be the 'head' and the others 'dependents' of the head. It is the head that 'governs' the dependents and marks this government in various ways for example in (15).

(15). The tall man from Mombasa (English)

In (15), the noun 'man' is the head. The determiner, adjective and the prepositional phrase are its modifiers. The modifiers depend on the head. The head is obligatory whereas the modifiers are usually optional (Brown, 1984). A head noun only can form a noun phrase e.g. man. Modifiers only cannot constitute noun phrases. In English, there is minimal morphology. In the few cases of concordial agreement that there are, the head determines the concord. Determiners for example take their number from the head noun as shown in (16).

(16). This man (English noun phrase.)

'This' is a singular determiner and 'man' is a singular head.

More highly inflecting languages like Bantu ones show more complex patterns of agreement as in (17).

(17). M zee mu embamba (Kiswahili)

SM1 old man AM1 thin

'A thin old man'

Modifiers include adjectives, participles, noun modifiers, clausal/phrasal expressions, numerals, quantifiers and demonstratives. This study concentrates on adjectives, demonstratives and numerals.

2.3.1. Agreement of Adjectives

Traditionally, adjectives are distinguished into two classes: attributive and predicative adjectives. Attributive adjectives appear as noun modifiers inside the DP while predicative adjectives are those that are likely to occur in the copular construction. As well known, the relative position of attributive adjectives with respect to the head noun they qualify is subject to cross linguistic variation (Alexiadou, 2001). In English, attributive adjectives precede the noun as shown in (18).

(18). A beautiful big red ball.

In some languages, adjectives agree in form with the nouns they modify. The adjective carries the marker for the respective agreeing noun as exemplified in (19).

(19). M kulima m nene (Kiswahili) SM1 girl AM1 fat

'A fat farmer'

However, it is not strange for a language to have more than one underlying form with the same function in its morphology (Mbeeria, 1993). In Kiswahili, there are exceptions when dealing with certain humans and animals where the adjective carries a marker different from the one for the respective agreeing noun for instance in (20).

(20). Kijana m vivu (Kiswahili)

7youth AM1 lazy

'A lazy youth'

In (20), the animate noun is for class 7. The rules of Kiswahili grammar allow that the qualifying word acquires a prefix in agreement with the class of the object being qualified. In this respect, one would have expected the adjective to be prefixed with a marker for class 7. Nevertheless, Kiswahili grammar does not allow this. The adjective is prefixed with a marker for class 1 for the phrase to be grammatical. From the phrase, it is also noted that the Kiswahili adjectives appear in post-nominal positions.

2.3.2. Numeral Modifiers

Like adjectives, numerals may occur after the head noun as exemplified using Kiswahili in (21 a) or precede it as shown using Shupamem data in (21 b).

(21) a. Mtoto m moja

1 Child AM1 'One child'

One child

b. kpa' púl po'n Four NM2

Four NM2 children 2 'Four children' (Nchare 2011: 163)

one

In (21 a) the numeral is post-head. It carries an agreement marker for class 1 which is the class of the modified noun. In (21 b), the numeral precedes the noun and carries an agreement marker for class 2 which is the class of the noun being modified. Kiswahili numerals mostly appear in a post-nominal position. Some of these numerals agree with the noun for example numerals 1, 2,3,4,5, and 8 while others like 6, 7, 9 and 10 do not (Barret, 1985).

2.3.3. Demonstrative Modifiers

Demonstrative modifiers point out to nouns as a way to identify them. In English, there are singular and plural demonstratives as shown in (22).

(22) a. This book –Singular.

b. These books –Plural.

In English, this/these and that/those are distinguished by a category of 'proximity'. 'This' implies proximate (to the speaker) while 'that' implies non-proximate or distant (from the speaker) (Jackson, 1995). In Kiswahili, demonstratives can precede or follow a head noun. When they precede nouns, they are supposed to be for emphasis as in (23).

(23) a. Hawa watoto (for emphasis).

These children

'These children'

b. Watoto hawa (normal).

Children these

'These children'

Like adjectives and numerals, demonstratives agree in noun class with the head noun if they follow it.

2.4. Gîtigania Noun Classes

All Bantu languages are known for their noun classes which are numbered systematically. Singular and plural noun classes are paired. Mostly, singular noun classes are odd numbered while their plural counterparts are even numbered. This system however does not apply to Gîtigania noun classes that are above class 8. These classes are as shown in table 1. They are borrowed from Mukuthuria (2004) with a few adjustments made to them. The table shows all the 17 noun classes in Gîtigania. The prefixes used with the nouns in the respective classes are shown. Examples of words are given for each of the 17 noun classes.

Class Number	Prefix	Examples
1	Mu-/Mw-	Muntu, Mwana
2	A-	Antu, Ana
3	Mũ-	Mũtî, Mũringa
4	Mî-	Mîtî, Mîringa
5	-Î/Ri	Îiga, Riîtwa
6	Ma-	Maiga, Mariîtwa
7	Kî-/Gî-	Kîoro, Gîtai
8	Ci-/I-	Cioro, Itai
9	N-	Nyungũ, Nyoni
10	N-	Ndego, Ndwito
11	Rũ-	Rwego, Rũrîndî
12	Ka	Kaana Kanyoni
13	Tũ-	Twana, Tũnyoni
14	Ũ-	Ũcũrũ, Ũtheru
15	Kũ-	Kũrîma Kũrwa
16	A-	Aa, Au
17	K-	Kwao, Kũraya

Table 1: Gîtigania Noun Classes Adapted from Mukuthuria 2004 p. 188

3. Patterns of Agreement in Gîtigania

To show the Gîtigania agreement patterns, data has been presented in words, phrases and sentences. Morphemic breakdowns and tables have been used to illustrate and clarify the data that has been analyzed under the following subheadings: Patterns of Subject-Verb Agreement in Gîtigania, Patterns of Verb-Object Agreement in Gîtigania and Patterns of Noun-Modifier Agreement in Gîtigania. To present the data, words, phrases and sentences have been written down after which their respective word by word breakdowns have been given. Where applicable the noun classes of the respective nouns used have been indicated after which morphemic breakdowns to show how various words inflect to match the properties of the head have been given. This mode of presentation is to enable understanding by linguists who are not native speakers of Gîtigania.

3.1. Patterns of Subject-Verb Agreement in Gîtigania

Gîtigania is a dialect of Kimeru language which is of Bantu origin and therefore is highly agglutinative. Morphemes/affixes that are attached to the verb portray the respective noun class of the subject with which it is used. The root gives the basic meaning of the verb. Gîtigania has 17 noun classes. In general, Bantu noun classes are named in a way that pairs the singular and the plural noun classes. In (24 a) the noun is in singular. It belongs to class 1. In (24 b) the noun is in class 2. It is the plural for the noun in class 1. Likewise, in (24 c) the class 3 noun is in singular while its respective plural is in class 4 as shown in (24 d). In (24 e) the singular noun is for class 5 while its plural is in class 6 as shown in (24 f). (24 g) is an example of a class 7 noun and its plural is given in (24 h). (24 i) is the singular for class 9. Its plural is in class 10 as shown in (24 j). In Gîtigania, the spelling for the nouns in class 9 is similar to their respective plurals in class 10. The agreement morpheme defines the singularity or the plurality. (24 k) gives an example of a noun in class 11 and its plural is in class 10 as shown in (24 l). (24 m) is an example of a noun in class 12. Its plural is in class 13 as shown in (24 n). (24 o) is an example of a class 14 noun whose plural is in class 6. (24 p) gives a gerund which is not pluralized in Gîtigania. It is in class 15. (24 q) indicates a particular place for class 16 while (24 r) which is in class 17 gives a general place. Consider (24):

a. Mũkũrũ

Man 1

- b. Akūrū
 - Men 2
- c. Mũtî
 - Tree 3
- d. Mîtî
 - Trees 4
- e. Riiko
- Cooker 5
- f. mariiko
- cookers 6
- g. Kiara
 - finger/toe 7
- h. Ciara
 - fingers/toes 8
- i. Nyungu
 - Pot 9
- j. Nyungu
 - Pots 10
- k. Rwego
 - fence11
- 1. Ndwego
- fences10
- m. Kaana
 - Little child 12
- n. Twana
 - Little children 13
- o. Uume
 - Wisdom 14
 - Wisdom 14
- p. Kwina Singing 15
- q. Au
 - That particular place 16
- r. kuraya far off place

This shows that the singular noun classes are indicated by odd numbers while the even numbers indicate plural classes. However, in Gîtigania, this system does not go beyond noun class 10. Nouns in class 11 can either be non-count or count ones. When class 11 nouns assume the plural, they belong to class 10. Classes 12 and 13 are paired but class 12 indicates singular nouns which belong to class 13 when in plural. Class 14 indicates abstract nouns. These do not get pluralized unless when referring to different types of the noun in question in which case, the plural is for class 6. Class 15 constitutes verbal nouns while the nouns in classes 16 and 17 are locative.

In sentences a prefix on the verb shows agreement with the subject as illustrated in (25). (25)

- a. Mũkũrũ a ũ kinya.Man 1 SM1 PERF arrive
 - 'The man has arrived.'
- b. Akūrū ba ū kinya Men 2 SM2 PERF arrive
 - 'Men have arrived'

The verb in (25 a) carries a prefix for noun class 1 because it is in singular while in (25 b) the verb carries a prefix for noun class 2 which is the plural for noun class 1. Therefore, subject-verb agreement depends on the class of the noun. The following sentences show the agreement morphemes that various Gîtigania noun classes take. A numeral on a noun indicates its noun class.

- 1. Mûgeni a kû rea. Visitor 1 SM1 PERF eat
 - 'The visitor has eaten.'
- 2. Acore ba ka ruîrwa.
 - Visitors2 SM2 FUT cook (APPLIC)
 - 'The visitors will be cooked for.'
- 3. Mũtî yũ ga kũra. Tree 3 SM3 FUT grow
 - 'The tree will grow.'

17. Güntü

4.	Mîtî	î	ka	rîkwa.								
т.	Trees 4	SM4	FUT	fell								
	'Trees will			1011								
5.	Îcunkwa	rî	kũ	wa.								
٥.	Orange5		PERF	drop.								
	'An orange			urop.								
6.	Maiga	ya	ka	gũrwa.								
0.	Stones 6	SM6	FUT	buy (AI	PPI IC)							
	'Stones wil			ouy (111	I LIC)							
7.	Kîeni	gî	a	temwa.								
,.	Field 7	SM7	FUT		APPLIC)							
	'The field			mark (1	ii i Lic)							
8.	Iratũ	bi	tî	ũmi.								
٠.	Shoes 8	SM8	NEG	dry								
	'The shoes are not dry.'											
9.	Nyoni	î	kũ									
	A bird 9	PERF	shoot (A	APPLIC)								
	'A bird has	been sho			- /							
10.	Nyumba		inyingi		i	kũ	îthwa.					
	Houses 10		many		SM10	PERF	burn (APPLIC)					
	'Many hou	ses have		nt.'								
11.	Rwimbo	rũ	ka	inwa.								
	Song 11	SM11	FUT	sing (Al	PPLIC)							
	'A song wi	ill be sung	g. '									
12.	Kala		ga	kũ	ringwa.							
	Toe/finger	12	SM12	PERF	hit (API	PLIC)						
	'The toe/fi	nger has l	been hit.'									
13.	Twana		tũ		ka	rea.						
	Little child		SM13		FUT	eat						
	'Little chile	dren will	eat.'									
14.	Ũtũlũtũ			bũ		tî	bugi.					
	Hardheade				NEG	good						
	'Hardheade	edness is	-	.'								
15.	Kũrota		gũ		tethaki		a	muno.				
	Dreaming		SM15		help		PRES	much				
1.6	'Dreaming	helps mu						, ,				
16.	Antũ		aa		a		tî	bugi.				
	Place 16		particul		SM16		NEG	good				
	'This partic	cular plac	e is not g	ood.								

menya wa

Place (general)17 SM17 know PRES through people2 SM2 its

kũ

'A place is known through its people.'

The sentences above give the subject markers that exist in Gîtigania. Table 2 gives a summary of the Gîtigania subject Agreement prefixes corresponding to various noun classes.

antũ

kuo.

ba

Noun Class	Pefix	Example	Subject marker
1	m-	mwana	a-
2	a-	ageni	ba-
3	mũ-	mũtî	yũ-
4	mî-	mîtî	Î-
5	î-	îcunkwa	rî-
6	ma-	maiga	ya-
7	Kî	kîeni	gî
8	ci/i-	îratũ	bi-
9	n-	nyumba	î-
10	n-	nyoni	i-
11	rũ-	rũkũ	rũ-
12	ka-	kaala	ga-

13	t-	twana	tũ-
14	ũ-	ũtũlũtũ	bũ-
15	kũ-	kũrota	gũ-
16	a-	antũ	a-
17	gũ-	gũntũ	kũ-

Table 2: Gitigania Subject Agreement Prefixes

From the table, it can be observed that subjects in Gîtigania sentences have affixes that come before the root and that subject markers are determined by the class of the respective nouns.

3.1.1. Gîtigania Agreement with Coordinated Nouns from the Same Noun Class

In Gîtigania, if nouns from the same noun class are coordinated, the agreement morpheme attached to the verb is mostly from the plural class of the coordinated nouns. Consider (26): (26)

- a. John Mary na ke ya. SM₂ John 1 and Mary 1 **FUT** come 'John and Mary will come.' b. Műcunkwa műgembe gũ temwa
 - Orange tree3 and mango tree3 SM4 **PERF** cut (APPLIC)

'An orange tree and a mango tree have been cut'

As observed in (26), in case nouns from class 1 are coordinated, the subject agreement morpheme used is from class 2 which is the plural for class 1. Likewise, if the coordinated nouns are from class 3, the subject agreement morpheme used is from class 4 which denotes the plural for class 3. The same pattern is repeated with nouns from classes 7. However, this does not happen for any other class even if the coordinated nouns are singular as exemplified in (27). (27)

- Rũko a. rwagî bi thũki muno. Dirt 11 and mosquito11 **PRES** SM8 bad so 'Dirt and mosquitoes are so bad.' b. **Urongo** na ũmaramari tî tharimi.
- Cheating 14 PRES and infidelity 14 SM8 NEG bless 'Cheating and infidelity are not blessed.'
- *Kaala na kamuti ku ya Small toe/finger 12 and small stick12 SM 13 **PERF** burn
 - 'The small toe/finger and a small stick have been burnt.'
- na kamuti ku ya Small toe/finger 12 and small stick 12 **SM 8 PERF** burn

'The small toe/finger and a small stick have been burnt,

In (27), the coordinated nouns are singular and from the same class. One would expect that the subject agreement morpheme to be used should be from the respective plural counterpart classes. However, this is not allowed in Gîtigania. The agreement marker that is allowed is from the default class 8. This pattern is also used with nouns from classes 5 and 9. This is similar to what Riedel (2009) states that in Sambaa which is a Bantu language, there are two ways to mark agreement when singular nouns from the same noun classes are coordinated: a subject marker from the class that gives the plural of the respective nouns or one from the default class 8. In other instances, plural nouns from the same noun class can be coordinated. In such cases, the agreement morpheme used is from the class of the conjoined nouns as illustrated in (28).

(28)

- Akũrũ ekũrũ na ba ka ria. Men2 and women2 SM2 **FUT** speak
 - 'Men and women will speak.'
- Makamburu maiga ya tî kũrîka nthũti. Molars6 and stones6 SM6 **NEG** extract PRES easily

'Molars and stones are not easily uprooted.'

In (28 a), each of the coordinated nouns is from class 2. The subject marker used is also from class 2. In (28 b), the coordinated nouns are from class 6. The subject agreement morpheme used is also from class 6. This pattern is also reflected in Gîtigania when nouns from classes 4, 8, 10 and 13 are coordinated.

There are other cases when noun phrases from the same noun class are coordinated using a conjunction of choice. The pattern realized in such cases is that a subject agreement morpheme of the class of the coordinated nouns is what is used to show concord in Gîtigania. Consider (29):

(29)

a. Mwekũrũ kana mwarî ke ya.

	Woman 1	or	girl 1	SM1	FUT	come						
	'A woman or a girl will come.'											
b.	Kanyoni kana	kathia	ga	tî	gwatwa	nthũti.						
	Small bird 12	or	gazelle 12	SM12	NEG	catch	easily					
	'A small bird or	a gazelle	cannot easily be c	aught.'								
c.	Marukî	kana	maũgũ	ya	ka	onwa.						
	Monkeys6	or	beehives6	SM6	FUT	see (APPLIC)						
	'Monkeys or beehives will be seen.'											

In (29 a) the two nouns are from class 1 and the subject marker is from the same class. In (29 b) the coordinated nouns are from noun class 12 and the subject marker used is of the same class. The subject marker used in (29 c) is from noun class 6 where each of the coordinated nouns belongs.

3.1.2. Gîtigania Agreement with Coordinated Nouns from Different Noun Classes

It is possible to have a case where the subject in a sentence is made up of coordinated nouns from different noun classes. This is illustrated in (30).

(30)

- a. Műkűrű na aritwa ba ke ya. Man1 and students2 SM₂ **FUT** come 'A man and the students will come.' b. Aritwa mũkũrũ ba na ke ya.
- b. Aritwa na mukuru ba ke ya.
 Students2 and man1 SM2 FUT come
 'The students and a man will come.'
- c. Kana12 na mwekûrû ba menyairw a nî mûkûrû.
 - Child12 and wife1 SM2 care(APPLIC) (PRES) by husband1
 - 'A child and a wife are cared for by the husband'
- d. Mũkũrũ na twana ba rugaîrwa nî mwekũrũ.
 Husband1 and little children13 SM2 cook (APPLIC) by wife
 'A husband and the children are cooked for by the wife.'

The sentences in (30) are made up of coordinate animate human nouns but from different noun classes. In all the cases, the subject agreement morpheme from class 2 is used to express concord. Even where none of the coordinated human nouns is of class 2 as illustrated in (30 c) and (30 d), the subject agreement morpheme is still from class 2. This shows that only the subject agreement morpheme for class 2 is used when human nouns are coordinated using a conjunction of addition. This patterns the same way as it happens in Haya. In Haya when human nouns are coordinated, subject agreement marking is with class 2 (Riedel, 2009).

Non-human nouns are also put together to constitute a subject in Gîtigania. In such cases, the default agreement marker from class 8 is used to express concord. Agreement is not based on any of the conjuncts. This pattern is as exemplified in (31). (31)

a.	Mũtî	na	maũgũ		bi	ke	ndua					
	Tree3	and	beehive	s6	SM8	FUT	sell (AF	PPLIC)				
	'A tree and beeh	ives will	be sold'									
b.	Mîtî	na	maũgũ		bi	ke	ndua					
	Trees 4	and	beehive	s6	SM8	FUT	sell					
	'Trees and beehi	ves will b	e sold'									
c.	Kîoro na	nyumb	oa	bi	akinyan	ıgîrw	e	nî	njogu.			
	Latrine7 and	house	9SM8	trample	on	PAST	by	elephar	nt9			
	'A latrine and a house were trampled on by an elephant.'											
d.	Kũrîma na	matund	a bi	a	kathi	muno.						
	Farming 15	and	fruits 6		SM8	PAST	praise	a lot				
	'Farming and fru	its were	praised a	lot.'								
e.	Mbũri	na	rwego		bi	kũ	ya					
	Goat 9	and	fence 11	SM8	PERF	burn						
	'A goat and the f	ence hav	e got bur	nt'								
f.	Kîeni na	mũbira	bi	ka	urwa			nî	cukuru.			
	Field7 and	balls4	SM8	FUT	buy (Al	PPLIC)		by	the school			
	'The field and th	e balls w	ill be bou	ght by th	e school.	,						
g.	Rũbaũ	na	îiga	bi	a	gũri	nî	Kirimi.				
	Timber (piece)1	l and	stone5	SM8	PAST	buy	by	Kirimi				
	'The piece of tin	nber and	the stone	were bou	ight by K	irimi.'						
h.	Mbaũ	na	maiga		bi	a	gũri	nî	Kirimi.			
	Timber 10	and	stones6	SM8	PAST	buy	by	Kirimi				

'Timber 10 and stones were bought by Kirimi.'

The given Gîtigania sentences in (31) are acceptable. The coordinated conjuncts belong to different classes but the default agreement marker from class 8 is used to express concord in all of them. It is not based on any of the conjuncts. This pattern is in agreement with other Bantu languages like Haya as explained by Riedel (2009). Riedel says that in Haya default agreement is allowed when combining nouns from different noun classes. However, the pattern contrasts with what happens in some other Bantu languages like Zulu as explained by Zeller (2008). Zeller shows that in case of coordinated conjuncts, the subject marker attached to the verb corresponds to the first conjunct.

In other cases, it is possible to combine a human and a non-human animate in Gîtigania. Nevertheless, this does not allow default agreement as it happens when dealing with nouns that are all non-human. The class of the human noun is what determines agreement. Consider (32).

(32)

- *Ng'ambe mũrîîthi bi ũ ngatũnyi. a. na rairwe nî Cow9 and shepherd1 SM8 **PAST** kill by lion9 'The cow and the shepherd were killed by the lion.'
- b. *Twana na nyumba bi etîre e na gikondoria.
 Children13 and houses10 SM8 sweep PAST with runoff7.
 'Children and houses were swept by the runoff.'

Sentence (32 a) is not permissible in Gîtigania. It is seen to treat shepherd as non-human. It should read as shown in (32 c) below.

c. Mũrîîthi amwe na ng'ambe a ũ ragirwe nî ngatũnyi. Shepherd1 together with cow 9 SM1 PAST kill(APPLIC by lion9 'The shepherd' together with the cow got killed by the lion.'

In the sentence, the SM attached to the verb is for noun class I where the human conjunct belongs. The subject is considered as singular. The other conjunct (cow) is not taken as independent in such a case. The first conjunct (man) should either have owned or having been in charge of the cow. The dependent therefore receives less attention in such a case.

Likewise sentence (32 b) is not considered grammatical in Gîtigania. By using a SM of class 8, the first conjunct which is human is treated as non-human. It should be as illustrated in (32 d).

(32) d. Twana amwe na nyumba tũ etîr e na ikondoria. Children13 together with houses10 SM13 sweep PAST by runoff7 'The children and houses were swept by the runoff.'

In the sentence, the focus is on the human conjunct though it recognizes the fact that even the houses were affected. Some Bantu languages mark agreement differently when a human and a non-human animate are conjoined. Sambaa for example does not allow the first or the second conjunct. The plural and default agreement is what is allowed. This pattern differs with what happens in some languages like Haya as noted by Riedel (2009). Riedel explains that coordination of a human and a non-human animate allows the plural and the default agreement.

In other instances, conjuncts are coordinated using a conjunction of choice. The SM attached to the verb always corresponds to the conjunct just before the verb as shown in (33).

(33)

a.	Maria	kana	atanoina ba	ke	ya.								
	Maria1	or	her brothers2	SM2	FUT	come							
	'Maria or her bro	others wi	ll come.'										
b.	Aana	kana	îthe	a	ke	ya.							
	Children2	or	their father1	SM1	FUT	come							
	'The children or	their fath	ner will come.'										
c.	Îiga	kana	mũthanju	jũ	aring	a	muntũ.						
	Stone5	or	cane3	SM3	hit	PRES	person1						
	'A stone or a car	'A stone or a cane can hit someone.'											

d. Mbũri kana mũrìĭthi a ka oneka. Goats9 shepherd1 SM1 **FUT** be found or 'The goats or the shepherd will be found.' e. Rwego kana nyumba ĭ ka îthua Fence 11 or house 9 SM9 **FUT** burn 'The fence or the house will be burnt.'

The SM attached to the verb in each of the sentences in (33) corresponds to the second conjunct. This shows that in Gitigania, if conjuncts are coordinated using a conjunction of choice, the SM attached to the verb always corresponds to the conjunct just before the verb.

3.1.3. Agreement with Pronoun Subjects

In Gitigania, it is possible to have cases where the subject of the sentence is a pronoun. In such instances, the prefix attached to the verb depends on the number and the person of the pronoun as shown in (34).

a.	Ũni	n	ka	rea. $(1^{st} person singular)$
	I	SM	FUT	eat
	'I will eat.'			
b.	Batwĭ	tũ	ka	rea. (1 st person plural)
	We	SM	FUT	eat
	'We shall eat.'			
c.	Ũgwe	ũ	ka	rea. $(2^{nd} person singular)$
	You	SM	FUT	eat
	'You will eat.'			
d.	Babwĭ	bũ	ka	ruga. (2 nd person plural)
	You	SM	FUT	cook
	'You will cook.'			
e.	We	a	ka	ruga. (3^{rd} person singular)
	He/she	SM	FUT	cook
	'He/she will coo	k.'		
f.	Bo	ba	ka	ruga. (3 rd person plural)
	They	SM	FUT	cook
	'They will cook.	,		

The summary of the pronoun subject prefixes in Gitigania is given in table 3.

Pronoun	Agreement morpheme	Function
Ũni	n-	1 st person singular
Batwĭ	tũ-	1 st person plural
Ũgwe	ũ-	2 nd person singular
Babwĭ	bũ-	2 nd person plural
We	a-	3 rd person singular
Во	ba-	3 rd person plural

Table 3: Gitigania Pronoun Subject Prefixes

3.2. Patterns of Verb- Object Agreement in Gitigania

Object markers are verbal affixes which are prefixed immediately to the verb stem to match the noun class features of a co-referential complement noun phrase. Noun class features include the person and number features of the object noun phrase. There is verb-object agreement when the object marker copies the features of the object noun phrase to the verb.

In Bantu languages, there are two macro-patterns with regard to object marking (Riedel, 2009). On the one hand, if the object marker is the argument of the verb, then any co-referential object must be an adjunct. The objects in such sentences tend to receive a topical or definite interpretation and so the object is analyzed as a topic if it is doubled by an object marker. On the other hand, the object marker is treated as an agreement marker. The object remains as the argument of the verb, whether it is overtly expressed or not. A verb can be monotransitive or ditransitive. This means that it can take one or two objects.

3.2.1. Object Marking with Monotransitive verbs in Gitigania

A sentence with a monotransitive verb has two arguments as shown in (35). (35)

a.	Jane	a	ka	rĭka	mũtĭ.	
	Jane 1	SM1	FUT	fell	tree3	
	'Jane will fell a t	ree.'				
b.	Jane	a	ka	уũ	rĭka	
	Jane 1	SM1	FUT	OM3	fell	
	'Jane will fell it.	,				
c.	*Jane	a	ka	уũ	rĭka	mũtǐ.
	Jane 1	SM1	FUT	OM3	fell	tree 3
	'Jane will fell a t	ree.'				

Sentence (35 a) is considered grammatical. It has an object but no object marker and so there is no agreement. In the given context, the verb 'rika' which means fell is transitive and therefore there are two arguments in the sentence. By virtue of having two arguments, then there are two theta roles to be assigned. The first argument is the NP 'Jane' which is the subject. It is assigned the theta role of an

agent while the second argument is the NP 'muti' which means tree. It is assigned the theme theta role. The theta role of an agent means the initiator or the doer of an action while the theme is the entity that undergoes an action, is moved, experienced or perceived (Chomsky, 1981). So, sentence (a) meets the requirements of the theta criterion.

The theta criterion is a constraint that ensures that there is a strict match between the number and the types of arguments in a sentence. It requires that there is a strict one to one match between argument DPs and theta roles. One cannot have more arguments than the theta roles and one cannot have more theta roles than the DPs (Chomsky, 1981). The two parts of the theta criterion are:

- a) Each argument is assigned one and only one theta role.
- b) Each theta role is assigned to one and only one argument.

Sentence (35 b) is acceptable in Gitigania. The subject 'Jane' and the OM 'yū' are the two arguments in the sentence assigned the theta roles of an agent and a theme respectively. Therefore, the sentence meets the requirements of the theta criterion. This compares to other Bantu languages like Gichuka as analysed by Ndwiga, (2008) where with transitive verbs, an object marker and its nominal object do not co-occur in a sentence. However, this contrasts with some other Bantu languages like Zulu as noted by Zeller (2008) where an object marker for the direct object freely co-exists with the object noun phrase.

Sentence (35 c) is not grammatical in Gitigania. There is an OM for NC3 and its corresponding noun phrase. In Gitigania sentences with transitive verbs, the OM if present is assigned the role of the theme. This means that in sentence (35 c), there are three arguments against two theta roles hence violating the first part of the theta criterion: the requirement that every argument has a theta role. Such a sentence can only be acceptable in unique cases like topicalization.

To topicalize is to foreground or draw attention to an element (Valin, 2005). The object is dislocated outside the verb phrase. This means that it is not considered as part of the verb phrase hence does not add an extra argument without a theta role to be assigned as shown in (36).

(36)

Julia mũ endet műkűrű okie. a. e na Julia 1 **PRES PRES** husband 1 OM1 love hers 'Julia really loves her husband.' Susana kiĭte ũcũrũ bũũ. na OM14 grind gruel 14 this Susana 1PERF 'Susana has really ground this gruel.'

Under normal circumstances, the verb 'enda' meaning to love is transitively used with only two arguments. However, in (36 a) though the verb is transitively used, it has got an OM corresponding to class 1. This means that it is considered as the second argument and the first one is 'Julia.' Julia as an argument is assigned the role of the experiencer while the OM is assigned the role of the theme. The object noun phrase 'mukuru' meaning husband is not an obligatory part of the verb phrase. It is a topic. Likewise in (36 b), the OM is considered to be the argument for the verb grind. The object noun phrase 'ucuru buu' to mean 'this gruel' is a topic.

A topic in Gitigania can also be fronted. (36 b) can have the object fronted as shown in (36 c). When an object is fronted it appears before the verb position and its noun class features are prefixed to the verb hence there is object concord. However, even in such circumstances, the object noun phrase is not assigned any theta role. It remains a topic. Consider (36 c):

c. ũcũrũ bũũ Susana na bũ kiǐte gruel 14 this Susana 1 PERF OM14 grind 'Susana has really ground this gruel.'

(36 b) and (36 c) mean the same though the word order is different.

3.2.2. Gitigania Object Marking with Ditransitive Verbs

A ditransitive verb takes two objects. Some Gitigania verbs are distransitively used as shown in (37). (37)

a. Juster a ga kundia ng'amberũũĭ. Juster 1 SM1 FUT give cows 10 water 11 'Juster will give water to the cows.'

b. Juster a ga i kundia ng'amberũũĭ.

Juster1 SM1 FUT OM10 give cows 10 water 11

'Juster will give water to the cows.'

c. Mwekũrũ a rugǐ rǐte twana irio.
Woman 1 SM1 cook PAST/PERF children 13 food
'The woman had cooked food for the children.'

Mwekũrũ a tũ rugǐ rǐte twana irio.
Woman 1 SM1 OM13 cook PAST/PERF children 13 food

'The woman had cooked food for the children.'

All the sentences in (37) are acceptable in Gitigania though sentences (37 a) and (37 c) do not have any object agreement markers while the verbs in sentences (37 b) and (38 d) are prefixed with agreement markers corresponding to the respective indirect object noun phrases. This means that ditransitive verbs in Gitigania can take object agreement markers though this is optional. When there is an object agreement marker it corresponds to the indirect object noun phrase. By virtue of being optional, it means that the verb object

agreement marker is not assigned any theta role but it is only part of the verb. This pattern is similar to what happens in Nyakyusa. In Nyakyusa, the OM and lexical NPs may or may not co-occur (Lusekelo, 2009). However, in the transitive verbs where the OM only co-occurs with the direct object noun phrase in a sentence for topicalization, OMs in ditransitive verbs co-occur with the indirect noun phrase in normal use. The following sentences show examples of Gitigania sentences used with object markers:

1.	Jane	a	ka	mũ	ũrĭra		mũthaka	a mhũri	
1.	Jane 1	SM1	FUT			PPLI)	young n		goat 9
			goat for t			/	,		8,
2.	Juster		a	ka	ba	ruĭra		akũrũ	nyama.
	Juster1		SM1	FUT	OM2	cook (A	PPLI)	men2	meat9
	'Juster v	will cook	meat for	the men.	,				
3.	Joan		a	уũ	ĭkaĭra	a	mũcunk	wa	rũũĭ
	Joan1		SM1	OM3	put	PRES	orange t	ree3	water11
	'Joan w	aters the	orangetre	e.'					
4.	Carol	a	ka	mĭ	ĭkĭra	mĭtĭ	mboleo.		
	Carol1		FUT	OM4	add	trees4	manure)	
_		vill add n	nanure to	_			·•		
5.	Karimi	G) //1	a	ka	rĭ	aka	ĭiga	rangi.	
	Karimi1		FUT	OM5	apply	stone5	paint		
6			nt the stor ka		olzo	magūrū	one		
6.	Mwirigi Mwirigi		SM1	ya FUT	aka OM6	magũrũ apply			ano
			ply ena o			appry	legso		ena
7.	Ni	Joan	a	gĭ	kĭ	re	kĭoro	ndawa.	
	It's	Joan 1	SM1	OM2	add	PAST	latrine	chemica	ls
			lded chen				14411110		
8.	James		a	bi	ĭkaĭr	a	iraĭ	biawe	alama
	James1		SM1	OM8	put	PRES b	asins8	his	mark
	'James 1	marks his	basins'						
9.	Joseph		a	ka	mĭ	temera		ng'ambe	
	Joseph1		FUT	OM4		PLI)	Cow9		feeds5
	-	will cut t	the feeds		_				
10.	Jadiel		a	ga	i	temera	D. T.	ng'ambe	
	Jadiel1	111 C	SM1	FUT ,		cut (AP	PLI)	cows10	teeds
1.1		Will cut is	eeds for the				_~~~Y		m
11.	Kamau Kamau1	CM1	a OM11	ru store	ĭkaĭra PRES	a water11	rũũĭ pot (LO	\mathbf{C}	nyungũne
			ater in a		FKLS	waterrr	pot (LO	C)	
12	Jane	a	ga ga	ka	ũrĭra		kaana		mũgate.
12.	Jane 1	SM1	OM12		buy (AF	PLT)	child12		loaf3
			loaf for th		ouj (m	1 21)	cimiaiz		Tours
13.	Purity		a	ga	tũ	aa	twana		ciewa.
	Purity1		SM1		OM13	give	children	13	presents8
	'Purity	will give	presents	to the chi	ldren.'				-
14.	Karimi		a	bũ	ĭkaĭra	a	ũcũrũ		cukarĭ.
	Karimi1		OM14		PRES	porridge	e14	sugar9	
			ne sugar	to the por	_				
15.		a gũ l		a .	kũrĭma	kĭ aı			bonthe.
	Kirimi1		OM15	praise	PRES	farming	15 to	people2	l all
1.0		-	arming to					1.	
16.	James	a a	thambĭri		antũ	aa nlaas14	na thia	cabuni.	200-
		SM1 Ol		wash	PAST	place16	inis	with	soap
17	Mutwiri		his place				añntñ		kwontho
1/.	Mutwiri		ga FUT	kũ OM17	thũkia spoil		gũntũ place17	a11	kwonthe.
			oil all pla		spon		Place 1/	an	
	141 Ut W II	i wiii spo	on an pia	· · · · · · · · · · · · · · · · · · ·					

All the given sentences are considered grammatical in Gitigania as long as the object marker corresponds to the indirect object. However, if the object marker were to correspond with the direct object, the grammaticality of the sentences would have been compromised. Consider (38).

(38)	a.*Justera	ka	i	ruĭra		akũrũ		nyama							
	Juster1	SM1	FUT	OM10	cook(A	APPLI)	men2	meat10	'Jı	ıster	will	cook	meat	for	the
	men'														
	b. Justera	ka	ba	ruĭra		akũrũ		nyama							
	Juster1 men'	SM1	FUT	OM2	cook(A	APPLI)	men2	meat10	'Jı	ıster	will	cook	meat	for	the
	c. Juster a	ka	ruĭra		akũrũ		nvama								
	Juster1	SM1	FUT	cook(A		men2	nyama	meat10							
	(T . '11	1		•											

^{&#}x27;Juster will cook meat for the men'

By using an object marker corresponding to the direct object, the sentence is no longer acceptable and therefore in cases of ditransitive verbs in Gitigania, agreement with the direct object is impossible as shown in (38 a). In case of topicalization, agreement with the indirect object is acceptable as shown in (38 b). In normal use, the verb should not be prefixed with any object agreement marker as shown in (39 c). Object marking in Gitigania is not as liberal as it is in Bantu languages like Kiluguru. In Kiluguru ditransitive verbs, there are several strategies to object marking: agreement with the direct object, agreement with the indirect object and agreement with both the direct and the indirect object. The following table gives the subject and the object markers used in Gitigania.

NC	Prefix	Example	SM	OM
1	m-	mwana	a-	-mũ-
2	a-	ageni	ba-	-ba-
3	mũ-	mũtî	yũ-	-yũ-
4	mi-	mîtî	î-	-mî-
5	i-	Îcunkwa	rî -	-rî -
6	Ma-	Maiga	ya-	-ya-
7	Kî/gî-	Kîeni	gî-	- gî -kî -
8	ci/i-	Iratũ	bi-	-bi-
9	N-	Nyumba	î-	- mî-
10	N-	Nyoni	i-	-i-
11	rũ-	Rũkũ	rũ-	-rũ-
12	Ka-	Kaala	ga-	-ga-
13	t-	Twana	tũ-	-tũ-
14	ũ-	Ũtũlũtũ	bũ-	-bũ-
15	Kũ-	Kũrota	gũ-	-gũ-
16	a-	Antu	a-	-a-
17	Gũ-	Gũntu	kũ-	-kũ-

Table 4: Gîtigania Subject and Object Agreement Markers

In regard to transitive verbs, the OM does not co-occur with the object noun phrase in the same sentences in normal use. However, it happens when the direct object is topicalized or fronted in the sentence. When an object is fronted in Gîtigania, there is object marking which patterns similar to subject marking. This similarity in concord can be attributed to word order. In both subject marking and fronted object marking, the NPs are preverbal. On the other hand, the OM co-occurs in the same sentence with the corresponding indirect object noun phrase in normal use. Nevertheless, this is optional. The subject and the object markers in Gîtigania are the same morphologically except those for classes 1, 4, and 9. For class 1, the subject marker is '-a-' while the object marker is '-mũ-'. In class 4, the subject marker is -î- and the object agreement is marked by '-mî-' whereas with class 9 both the subject and the object agreement markers are like for class 4, that is '-î-' and '-mî-' respectively.

3.2.3. Patterns of Gîtigania Object Marking with Coordinate Structures

To coordinate structures means to combine noun phrases belonging to either the same or different noun classes to function as one object in a sentence. Cross-linguistically, coordinated DPs typically allow either singular or plural agreement (Riedel, 2009). Corbett (2006) argues that in coordination, agreement tends to be with the nearest conjunct. It is also possible to have an object made up of more than one noun phrase in Gîtigania. When human nouns from the same class are coordinated, there is no object marking in normal use as shown in (39 a). Even with animates from different noun classes, still there is no object marking as shown in (39 b). However, in topicalization, coordinate human nouns there is object agreement with a marker for class 2 as exemplified in (39 c). When inanimates are coordinated in normal use, there is no object marking as shown in (39 d). In case inanimates are topicalized there is object marking with the default agreement marker as shown in (39 e). Neither the FCA nor the SCA is permissibe in Gîtigania as shown in (39 f) and (39 g) respectively. Consider (39):

- a. Juster a ka rea Maria na John mũcara. Juster1 SM1 FUT pay Maria1 and John1 salary3 'Juster will pay Maria and John a salary.'
 - Akora ba ti ikaîru a ekũrũ kana twana kîao.

Thugs 2 SM2 NEG feel PRES women 2 or children 13 mercy 7

'Thugs do not pity women or children.'

- c. Mũkũrũ na twana Mwekũrũ a ba rugaîr a irio.
 Man1 and children13Woman1 SM1 OM2 cook (APPLI) PRES food5
 'The woman really cooks food for the man and children.'
- d. Mũkũrũ a ga tema mũcunkwa na mũgembe.

 Man 1 SM1 FUT cut orange tree3 and mango tree3

 'The man will cut the orange and the mango tree.'
- e. îcunkwa na nyama Joseph a bi rî re .
 Orange 5 and meat9 Joseph1 SM1 OM8 eat PAST
 'Joseph ate an orange and meat'
- f. *Julia a ka mî ũrîra ng'ambe na twana ndawa. Julia1 SM1 FUT OM9 buy (APPLI) cow9 and children13 medicine 'Julia will buy medicine for the cow and children.'
- g. *Julia a ga tu ũrîra ng'ambe na twana ndawa Julia1 SM1 FUT OM13 buy (APPLI) cow9 and children13 medicine 'Julia will buy medicine for the cow and the children'

Sentences (39 a) and (39 b) have coordinated objects but no object markers. (39 c) has an object marker and it is also grammatical. This is because the object is topicalized. (39 d) is not object marked. It is allowed in Gîtigania. (39 e) is also acceptable though the verb is prefixed with an object marker for class 8. The object is topicalized. Sentence (39 f) has an object marker corresponding to the first conjunct. It is not permissible. Sentence (39 g) has a marker corresponding to the second conjunct and it is not grammatical either. The two sentences should be as shown in (39 h) and (39 i) respectively.

- h. Julia a ka ũrîra ng'ambe na twana ndawa. Julia1 SM1 FUT buy (APPLI) cow9 and children13 medicine 'Julia will buy medicine for the cow and the children.'
- I. Julia a ka ũrîra twana na ng'ambendawa .

 Julia1 SM1 FUT OM13 buy (APPLI) and cow9 medicine

 'Julia will buy medicine for the children and the cow'

Without the object markers, sentences (39 h) and (39 i) are grammatical. This means that Gîtigania coordinate structures do not allow object markers to co-occur with NPs whether the combined phrases are from the same or from different noun classes unless in case of topicalization. This pattern is different from Gîtigania subject marking which is obligatory. In case of topicalization where the object position is before the verb, object marking in Gîtigania patterns the same as subject marking. This means that agreement in Gîtigania depends on word order. Just as it is the case in Gîtigania, object marking in Sambaa is optional (Riedel, 2009).

3.3. Patterns of Noun Modifier Agreement in Gîtigania

In general, Bantu languages have a head-before-dependent basic word order. All modifiers follow the head noun (Velde, 2005). However, some Bantuists hold that the rules governing the order of elements within a noun phrase in Bantu languages are not water tight (Rugemalira, 2007). This means that the words that modify the head may not have restrictions of occurrence in relation to the noun phrases in some Bantu languages. This shows that Bantu languages allow noun modifiers to either precede or follow the noun or both. Nevertheless, each Bantu language reveals a somehow distinct order (Lusekelo, 2009). It is from this observation that the present work has sought to establish the patterns of the adjective, demonstrative and the numeral noun modifiers in Gîtigania. As earlier explained, modifiers include clausal/phrasal expressions, numerals, quantifiers and demonstratives. I concentrated on adjective, demonstrative and numeral modifiers. For the purposes of this study, I have used the abbreviations AM, DM and NM to mean adjective modifier, demonstrative modifier and numeral modifier respectively. Cinque (2005) makes it clear that the hierarchical order of a Dem, a Num, an Adj and a N the attested order of the four elements demonstrative, numeral, adjective and noun are (Dem > Num > Adj > N) where > indicares C-command. The noun is the lowest element in the hierarchy and if found at a different position, it is through movement.

3.3.1. Agreement with Adjectives in Gîtigania

When an adjective modifies a noun in Gîtigania it carries a prefix corresponding to the features of the noun class of the noun in question as shown in (40).

(40)

a. îiga rî nene stone 5 AM5 big

```
'a big stone'
b. mwekũrũ
                ũ
                        mũkũrũ
woman 1
                AM1
                        old
 'An old woman'
c. rũũî
                rũ
                        kembu
water 11 AM11
                clear
  'clear water'
```

The observation that arises in (40) is that an adjective in Gîtigania carries a marker to match the features of the noun class of the noun phrase being qualified. The following noun phrases show the adjective markers that mark noun-adjective agreement in the 17 Gîtigania noun classes:

Gîtigani	a noun classes:			
1.	mũkũrũ ũ	munene		
	man 1	AM1	big	
	'A big man'			
2.	ekũrũ	ba	kũrũ	
	Woman 2	AM2	old	
	'Old women'			
3.	Mwembe	уũ	mũkũrũ	
	Mango tree3	AM3	old	
	'An old mango	tree'		
4. M	lîtî	î	mîũmũ	
Tree	es4	AM4	dry	
	'Dry trees'		,	
5.	ĭiga	rî	nene	
	Stone 5	AM5	big	
	'A big stone'		U	
6.	Maiga	ya	manene	
	Stones 6	AM6	big	
	'Big stones'		8	
7.	Kîratũ	gî	kîega	
, .	Shoe 7 AM7	nice	1110811	
	'A nice shoe'	11100		
8.	Iratũ	bi	biega	
0.	Shoes 8	AM8	nice	
	'Nice shoes'	711110	mee	
9.	Nyumba î	nene		
<i>7</i> .	House 9	AM9	big	
	'A big house'	71117	015	
10.	Nguũ	i	njarũ	
10.	Clothes 10	AM10	new	
	'New clothes'	711110	IIC VV	
11.	Rwego	rũ	kũrũ	
11.	Fence 11	AM11	old	
	'An old fence'	AWITT	olu	
12.	Kaana	g a	tune	
12.	Child 12	ga AM12		inned,
			ʻlight sk	iiiieu
13.	'A light skinne Tũkili	a cilia	tũ	truomi
13.		2 41/12		twerũ
	Small gourds 13		new	
1.4	'Small new go		1	
14.	Ũcuru	bũ	bwega	
	Gruel14	AM14	nice	
1.5	'Nice gruel'	1 ~	.1	
15.	Kwina	kũ	theru	
	Singing 15	AM15	holy	
4.6	'Holy singing'			
16.	Antu	1613516	a	ega
	Place (specific)		good	
1.7	'A good specif	ic place'	~	
17.	Gũntũ		gũ	kwega

Place (general)17 AM17 good 'A generally good place'

The given noun phrases show that in Gîtigania, adjective modifiers are post head. This is in agreement to what happens in most other Bantu languages (Velde 2005). Nyakyusa adjectives are also post-head (Lusekelo, 2009). However, Gîtigania noun-adjective agreement is marked slightly differently from Kiswahili when it comes to animate nouns. In case of a Kiswahili animate singular noun the adjective is prefixed with an agreement marker for class1. When it comes to the plural the adjective automatically carries an agreement marker for class 2. This is contrary to what happens in Gîtigania where a noun-adjective agreement marker strictly corresponds to the class of the NP being qualified. The following table gives the Gîtigania agreement markers for adjective modifiers alongside the other agreement morphemes discussed in this work.

NC	Prefix	Example	SM	OM	AM
1	m-	Mwana	a-	-mũ-	Ũ
2	a-	Ageni	ba-	ba-	Ba
3	mũ-	Mũti	yũ-	-yũ-	yũ
4	mî-	Mîtî	î-	-mî-	Ĭ
5	î-	îcunkwa	rî-	-rî-	rĭ
6	Ma-	Maiga	ya-	-ya-	Ya
7	Kî/gî-	Kieni	Gî	-gîkî-	gî/kî
8	ci/i-	Iratu	bi-	-bi-	Bi
9	N-	Nyumba	Ĭ-	- mǐ-	Ĭ
10	N-	Nyoni	i-	-i-	I
11	rũ-	Rũkũ	rũ-	-rũ-	Rũ
12	Ka-	Kaala	ga-	-ga-	Ga
13	t-	Twana	tũ-	-tũ-	Tũ
14	ũ-	Ũtũlũtũ	bũ-	-bũ-	Bũ
15	Kũ-	Kũrota	gũ-	-gũ-	Gũ
16	a-	Antu	a-	-a-	A
17	Gũ-	Gũntũ	kũ-	-kũ-	Gũ

Table 5: Gîtigania Subject, Object and Adjective Agreement Markers

From the table, it can be observed that the noun-adjective agreement markers in Gîtigania are similar to the subject ones except those for classes 1. The subject-verb agreement marker for the nouns in class 1 is 'a' while the noun-adjective agreement marker is 'ũ'. The noun in class 17 takes 'kũ' and 'gũ' as the subject-verb and noun-adjective agreement markers respectively. This is because Gǐtigania has undergone the Dahl's Law. The Dahl's law is a voicing dissimilation process found in a number of Bantu languages. It states that a voiceless stop like /p/, /t/ or /k/ becomes the voiced /b/, /d/ and /g/ respectively when immediately followed by a syllable with another voiceless stop.

4.3.1.1. Agreement with Adjectives in Coordinated Nouns in Gîtigania

Nouns can be coordinated using a conjunction of choice or addition in Gitigania. In cases of coordination, the noun adjective agreement marker used is determined by the type of the coordinator and the respective noun classes of the coordinated objects. It is possible to use an adjective after coordinated nouns in Gitigania. It does not matter whether the coordinated NPs are from the same or different noun classes as shown in (41 a-f). Also, (41 g) is grammatical though the adjective is prefixed with an agreement marker for class 8. Default class 8 is used to mark adjective agreement when inanimate nouns are coordinated. This is similar to the pattern exhibited in subject and object marking in coordination. Therefore, for inanimate nouns, the SCA and default agreement mark concord with adjectives. However, only the SCA is permissible with the human nouns. This explains why (41 h) is ungrammatical while (41 i) is grammatical.

(41)

a.	Mwarî	na	mwekũrũ	ũ	mũiru
	Girl 1	and	woman 1	AM1	dark
	'A girl and a da	rk woman	,		
b.	Arî	na	mwekũrũ	ũ	mũirũ
	Girls 2	and	woman 1	AM1	dark
	'Girls and a dar	k woman'			
c.	Mwekũrũ	na	twana	tũ	tuirũ
	Woman 1	and	children 13	AM13	dark
	'A woman and	dark child	ren'		
d.	Mwarimũ	kana	aciari	ba	kũrũ
	Teacher 1	or	parents2 AM2	old	
	'A teacher or ol	d parents'			

e.	Nyumba na	maiga		ya	manene		
	House 9	and	stones6	AM6	big		
	'A house and bi	g stones'					
f.	Mũkwa na	rũkũ		rũ	rwega		
	Rope 3	and	firewoo	d 11	AM11	good	
	'A rope and a go	ood piece	of firewo	od'		_	
g.	Mũkwa na	rũkũ		bi	bwega		
	Rope 3	and	firewoo	d 11	AM8	good	
	'A rope and a go	ood piece	of firewo	od'			
h.	*Ari na	nthaka		ba	i	nkanya	
	Girls2	and	young r	nen10	SM2	PRES	smart
	'Smart girls and	young m	en'				
i.	Nthaka		na	ari	ba	i	nkanya
	Young men10	and	girls2	NA2	PRES	smart	

'Smart young men and girls'. (41) Shows that when an adjective is used with coordinated noun phrases in Gîtigania, the adjective agreement morpheme corresponds to the second (last) conjunct.

4.3.2. Agreement with Demonstratives in Gîtigania

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In Gîtigania, NPs can be modified using demonstratives. These are used to indicate the proximity and non-proximity of the location of the referent in relation to the speaker and the hearer's position. Another function of the demonstrative is to refer to the entities mentioned earlier in a text. Demonstratives change morphologically depending on the noun class of the head noun. (42) shows examples of demonstratives used in Gîtigania. (42)

- Muntũ ũ a. Person1 DM1 this
 - 'This person'
 - b. Muntũ 1 ũ Person1 DM1 that
 - 'That person'
 - Muntũ ũ ra Person1 DM₁ that 'That person'

(42 a) shows a proximal demonstrative used for referents that are close to the speaker. (42 b) shows a non-proximal demonstrative and it refers to the referents far from the speaker but close to the addressee. The demonstrative in (42 c) is used for referents that are remote to both the speaker and the addressee. Table 6 shows the demonstrative modifiers used with the 17 noun classes in Gîtigania.

NC	Example	DM	This (Used with referents close to the speaker)	That (For referents far from the speaker but close to the addressee)	That (For referents remote to the speaker and the addressee)
1	Mwarî	ũ	ũ	u	Ra
	Girl 1	DM 1			
2	Antũ	ba	a	u	Ra
	People 2	DM 2			
3	Mũtî	yũ	ũ	u	Ra
	Tree 3	DM 3			
4	Mîtî	ĭ	Ĭ	u	Ra
	Trees 4	DM 4			
5	Îũgu	rî	Ĭ	u	Ra
	Beehive 5	DM 5			
6	Maîgo	ya	a	u	Ra
	Teeth 6	DM 6			
7	Gîciko	kĭ	Ĭ	u	Ra
	Spoon 7	DM 7			
8	Cioro	bi	i	u	Ra

	Latrines 8	DM 8			
9	Mbogo	Ĭ	Ĭ	u	Ra
	Buffalo 9	DM 9			
10	Ndwego	i	i	u	Ra
	Fences 10	DM 10			
11	Rwego	rũ	ũ	u	Ra
	Fence 11	DM 11			
12	Kaana	ka	a	u	Ra
	Child 12	DM 12			
13	Twana	tũ	ũ	u	Ra
	Children 13	DM 13			
14	Ũcũrũ	bũ	ũ	u	Ra
	Gruel 14	DM 14			
15	Kũtheka	kũ	ũ	u	Ra
	Laughing 15	DM 15			
16	AntũSpecific	a	a	u	Ra
	place 16	SM 16			
17	Gũntũ	kũ	u	u	Ra
	General place 17	DM17	1.0		

Table 6: The Demonstrative Modifiers Used with the 17 Noun Classes in Gîtigania

The NPs show that in Gîtigania, demonstratives are preceded by the NP. This partly contrasts some Bantu languages like Kiswahili where the demonstrative can occur before or after the head noun. It however agrees with others like Nyakyusa where the demonstrative is post head. Table 7 gives the Gîtigania agreement markers for the demonstratives together with the other agreement morphemes already analyzed in this work.

NC	Prefix	Example	SM	OM	AM	DM
1	m-	mwana	a-	-mũ-	ũ	Ũ
2	a-	ageni	ba-	-ba-	ba	A
3	mũ-	mũtî	yũ-	-yũ-	yũ	уũ
4	mî-	mîtî	î-	-mî-	ĭ	Ĭ
5	rĭ -	îcunkwa	rĭ -	-rĭ -	rĭ	rĭ
6	ma-	maiga	ya-	-ya-	ya	ya
7	kî/gî-	kîeni	Gĭ	-gǐkǐ -	gĭ /kĭ	gĭ/kĭ
8	ci/i-	iratũ	bi-	-bi-	bi	bi
9	N-	nyumba	Ĭ-	- mĭ-	ĭ	Ĭ
10	N-	nyoni	i-	- i-	i	I
11	rũ-	rũkũ	rũ-	-ru-	rũ	rũ
12	ka-	kaala	ga-	-ka-	ga	ka
13	t-	twana	tũ-	-tũ-	tũ	tũ
14	ũ-	ũtũlũtũ	bũ-	-bũ-	bũ	bũ
15	kũ-	kũrota	gũ-	-kũ-	gũ	kũ
16	a-	antũ	a-	-a-	a	A
17	gũ-	gũntũ	kũ-	-kũ-	gũ	kũ

Table 7: Gîtigania Subject, Object, Adjective and Demonstrative Agreement Markers

As realized in table 7, the noun-adjective and noun-demonstrative agreement markers are the same in Gîtigania.

3.3.2.1. Gîtigania Noun -Demonstrative Agreement in Coordination

When noun phrases are coordinated, it is possible to use one demonstrative prefix for agreement as exemplified in (43). (43)

a.	Mwarî	na	mwana	ũ	ũ
	Girl1	and	child 1	DM1	this
	'A girl an	d this cl	nild'		
b.	*Mwarî	na	mwana	ba	a
	Girl1	and	child 1	DM2	this
	'These gi	rl and cl	nild'		
c.	Mwarî	na	ngarî	Ĭ	ĭ

	Girl1	and	vehicle 9	DM9	this
	'A girl an	d this ve	hicle'		
d.	Mũkũrũ	na	mũtî	уũ	ra
	Man1	and	tree 3	DM3	that
	'A man a	nd that tr	ee'		
e.	*Nyoni	na	rwego	bi	ũ
	Bird9	and	fence 11 DM8	that	
	'A bird a	nd that fe	ence'		
f.	Nyoni	na	rwego	rũ	ũ
	Bird9	and	fence 11 DM11	that	
	'A bird a	nd that fe	ence'		

(43) shows that in case of coordinated noun phrases, the demonstrative only modifies the conjunct next to it. (43 b) is considered ungrammatical in Gîtigania. The demonstrative is prefixed with an agreement marker for class 2 which is the plural for class 1. Also, (43 e) is unacceptable as the demonstrative is prefixed with an agreement marker from default class 8. This can be compared with the adjective modifiers which only modify the NPs that precede them in coordination.

3.3.3. Agreement with Numerals in Gîtigania

When used to modify a noun, a numeral carries a prefix to match the class of the head noun it co-occurs with in a Bantu construction. In Nyakyusa, numerals display freedom of co-occurrence (Lusekelo, 2009). Also, in other Bantu languages like Shupamem which is a Bantu language spoken in South West Cameroon, the NP can precede or follow the numeral whereas in Kiswahili, numerals are mostly post head. Gîtigania also allows numeral modifiers as shown in (44).

a.	Mwana ũ	mwe		
	Child1 NM	1 one		
	'One child'			
b.	Ana	ba	ĭlĭ	
	Children2 NM	2 two		
	'Two children'			
c.	Twana	tũ	na	
	Children13NM	13 four		
	'Four children'			

(44) Shows that numerals that modify nouns carry prefixes with the features of the noun being modified. The following noun phrases show the numeral modifiers used for the 17 Gîtigania noun classes:

1.	muntũ	ũ	mwe	
	Person1	NM1	one	
	'one perso	n'		
2.	antũ	ba	îlî	
	people 2	NM2	two	
	'two peopl	le'		
3.	mũtî	уũ	mwe	
	tree 3	NM3	one	
	'one tree'			
4.	mîti	î	thatũ	
	trees 4	NM4	three	
	'three tree	s'		
5.	îîgo	rî		mwe
	tooth 5	NM5		one
	'one tooth	,		
6.	maiga	ya	tano	
	stones 6	NM6	five	
	'five stone	s'		
7.	kîara	kî	mwe	
	finger 7	NM7	one	
	'one finger	r'		
8.	ikombe	bi	tanthatũ	
	cups 8	NM8	six	
	'six cups'			
9.	nyoni	î	mwe	
	bird 9	NM9	one	

	'one bird'			
10.	Ndwimbo	i	nyanya	
	songs 10	NM10	eight	
	'eight songs'			
11.	rũciũ	rũ	mwe	
	sword 11	NM11	one	
	'one sword'			
12.	kathati	ka	mwe	
	basket 12 NM12	one		
	'one basket'			
13.	tũthati	tũ	nana	
	baskets 13 NM13	eight		
	'eight baskets'			
14.	ũtheru	bũ	bwingî	
	cleaniliness14	NM14	much	
	'much cleanliness'			
15.	kũrîma	gũ	kai	
	farming15	NM15	limited	
	'limited farming'			
16.	antũ		a	mwe
	specific place 16		NM16	one
	'One specific place	,		
17.	gũntũ		kũ	thatũ
	general place 17		NM17	three
	'three different plac	ces'		

The noun phrases are modified using numerals. The numerals carry prefixes to show the noun class features of the respective nouns. Numerals 7, 9 and 10 are not included in the examples. This is because Gîtigania nouns do not allow any agreement morphemes when the three numerals modify them as shown in (45).

(45)

mũgwanja a. *antũ ba people 2 NM2 seven 'seven people' b. *mîtî kenda trees 4 NM4 nine 'nine trees' *maîgo îkũmi c. ya teeth 6 NM6 ten 'ten teeth'

The phrases in (45) are not grammatical in Gîtigania since they carry noun-numeral agreement prefixes with numerals 7, 9 and 10. They should appear as in (46). (46)

a. antũ mũgwanja people 2 seven 'seven people'
b. mîtî kenda trees 4 nine 'nine trees'
c. maîgo îkữmi

c. maîgo îkũmi teeth 6 ten 'ten teeth'

The phrases are grammatical without the agreement prefixes on the numeral modifiers. Though nouns in classes 14 and 15 are not countable, they can be quantified. When giving the quantities, the modifiers assume prefixes that correspond to the respective classes of the noun phrases used.

3.3.3.1 Gîtigania Agreement with Numerals in Coordination

In Gîtigania, coordinated nouns are enumerated separately. This explains why agreement with numerals in coordination only corresponds to the class of the noun next to it. Consider the Gîtigania phrases in (47).

(47) a. Aarî na mũthaka ũ mwe Girls2 and young man1 NM1 one

		'Girls and one young man'								
	b.	*Mwarî	na	mũthaka	ı ba	ili				
		Girls2	and	young n	nan 1	NM2	two			
		'Two peo	ple. A gir	rl and a y	oung mar	ı'				
c.		maiga	kana	mîgemb	e	î	tano			
		stones6	or	mangotr	rees3	NM3	five			
		'stones or	five man	go tree.						
d.		*Kaala			na	nyumba	bi	tano		
		Small fing	er/toe 12	and	house10	NM8	five			
		'Five thing	gs. Finger	rs/toes an	d houses	put toget	her.'			

In (47 a), the two nouns are coordinated in Gîtigania using a conjunction of choice. They are both human animates but from different classes. It is observed that the numeral agreement marker corresponds to the class of the noun next to it. In Gîtigania, the phrase means that it is only the noun next to the agreement marker that is modified. (47 b) is not grammatical in Gîtigania. The plural agreement marker for class 2 is used to show noun-numeral agreement. This could have been allowed if one used a plural noun like 'antû' to mean 'people'. In (47 c), an animate noun is coordinated with an inanimate one using a conjunction of addition. Similarly, the nounnumeral agreement marker corresponds to the class of the noun next to it and this is acceptable. (47 d) is also not grammatical because of the default class agreement that is used. For the phrase to be grammatical, the noun numeral agreement marker should have been for class 10 in which case only the class 10 noun which is the second conjunct could have been enumerated. This means that with coordinated NPs in Gîtigania, noun numeral agreement is with the noun next to the numeral both with a conjunction of choice and addition. Also, the pattern is the same whether the coordinated nouns are animate or inanimate. As observed, the nouns in plural assume the same prefix on the numeral even if they (the numerals) are different. Consider the following phrases in (48).

(48) a.	antũ	ba	îlî
	People2	NM2	two
	'two people'		
b.	antũ	ba	tano
	people2	NM2	five
	'five people'		
c.	Maiga	ya	îlî
	Stones6	NM6	two
	'two stones'		
d.	Maiga	ya	na
	Stones6	NM6	four
	'four stones'		

In (48 a) and (48 b), the noun-numeral agreement marker used is for class 2 which is the class of the noun being modified though numerals 2 and 5 qualify the noun. In (48 c) and (48 d), numerals 2 and 4 are used to modify the noun but the noun-numeral agreement marker used is for class 6. This means that the numeral modifier is not determined by the numeral used but by the noun class of the noun being modified. Table 8 gives a summary of the Gîtigania noun class system with subject, object, adjective, demonstrative and numeral agreement prefixes.

NC	Prefix	Example	SM	OM	AM	DM	NM
1	m-	Mwana	a-	-mũ-	ũ	ũ	Ũ
2	a-	Ageni	ba-	-ba-	ba	ba	Ba
3	mũ-	Mũtî	yũ-	-yũ-	уũ	уũ	Yũ
4	mî-	Mîtî	î-	-mî-	Ĭ	ĭ	Ĭ
5	î-	îcunkwa	rî-	-rî-	rĭ	rĭ	rĭ
6	ma-	Maiga	ya-	-ya-	ya	ya	Ya
7	kî/gî-	Kîeni	gî	-gîkî-	gî/ki	gĭ/kĭ	Kĭ
8	ci/i-	Iratu	bi-	-bi-	bi	bi	Bi
9	N-	Nyumba	Ĭ-	- mǐ-	Ĭ	ĭ	Ĭ
10	N-	Nyoni	i-	-i-	i	i	I
11	rũ-	Rũkũ	rũ-	-rũ-	rũ	rũ	Rũ
12	ka-	Kaala	ga-	-ga-	ga	ka	Ka
13	t-	Twana	tũ-	-tũ-	tũ	tũ	Tũ
14	ũ-	Ũtũlũtũ	bũ-	-bũ-	bũ	bũ	Bũ
15	kũ-	Kũrota	gũ-	-gu-	gũ	kũ	Gũ
16	a-	Antũ	a-	-a-	a	a	A
17	gũ-	gũntũ	kũ-	-kũ-	gũ	kũ	Kũ

Table 8: Gîtigania Noun Classes and their Respective Agreement Prefixes for Subjects, Objects, Demonstratives Adjectives and Numerals

From the given Gîtigania numeral modifiers, the following conclusions are drawn. First, the nouns in classes 1, 3, 5, 7, 9, 11, 12 and 16 are always in singular. Therefore, only numeral 1 (one) can be used to modify them. Two, the nouns in classes 2, 4, 6, 8 and 13 are always in plural. For such nouns, the noun numeral agreement marker is always the same even if the numerals are different. They can be modified using all the other numerals except 1. Three, the nouns in class 14 and 15 are not countable. Therefore, they can only get quantified in which case the quantifier is prefixed with a modifier to correspond to the class of the noun. They are not modified using numerals. Next, class 17 has got one type of noun that refers to general places. This can either take the singular or the plural numeral modifiers. Finally, numerals 1, 2, 3, 4, 5, 6 and 8 carry agreement prefixes corresponding to the class features of the nouns they modify while numerals 7, 9 and 10 do not carry any prefixes to mark agreement with the noun classes of the nouns they modify. All Gîtigania modifiers are post head just as is the case in Nyakyusa. In Nyakyusa noun modifiers are post-head (Lusekelo, 2009).

3.3.4. Gîtigania Nouns with More than One Type of a Modifier

There are times when several qualities are attributed to the same noun. If such happens in Bantu languages, the preferred order is noun + (possessive) (demonstrative) (numeral) (quantifier) (adjective) as explained by Lusekelo (2009). In this work, the researcher has analyzed instances of a coordinated demonstrative and an adjective, a demonstrative and a numeral, an adjective and a numeral and finally a demonstrative, an adjective and a numeral.

3.3.4.1. Coordination of a Demonstrative and an Adjective

In case a noun is modified with a demonstrative and an adjective in Gîtigania, the demonstrative appears before the adjective as exemplified in (49).

(49)

a.	Antũ	ba	ara	ba	nene
	People2	DM2	those	AM2	big
	'Those bi	g people	,		
b.	Maîgo	ya	u	ya	tunei
	Teeth6	DM6	those	AM6	brown
	'Those bi	own teet	h'		

In (49 a), there are two agreement markers both of class 2 which is the class of the noun being modified. The first agreement marker marks noun demonstrative concord while the second one marks noun-adjective concord. In (49 b), prefixes corresponding to class 6 which is the class of the qualified noun are attached to each of the modifiers.

3.3.4.2. Coordination of a Demonstrative and a Numeral

When a noun is modified using a demonstrative and a numeral in Gîtigania, the demonstrative precedes the numeral if the two are used to modify the same noun as shown in (50).

a.	Aritwa	ba	ara	ba	tano				
	Students2 DM2	those	AM2	five					
	'Those five studen	ts'							
b.	Twana	tũ	u	tũ	îlî				
	Children13DM13	those	AM13	two					
	'Those two childre	'Those two children'							

In (50), each of the modifiers is prefixed with an agreement marker corresponding to the class of the noun being qualified.

3.3.4.3 Coordination of an Adjective and a Numeral

When an adjective and a numeral are used to qualify the same noun, both the numeral and the adjective modifiers carry prefixes to match the noun features of the noun being modified. The numeral modifier precedes the adjective as shown in (51). (51)

a.	Antú	ba	thatú	ba	nene	
	People 2	NM2	three	AM2	big	
	'Three big	g people'				
b.	Twana		tũ	tano	tũ	noru
	Children 1	13	NM13	five	AM13	fat
	'Five fat c	hildren'				

In (51 a), the two modifiers are prefixed with agreement markers for class 2. The noun being modified belongs to class 2. In (51 b), the two modifiers are prefixed with an agreement marker for class 13. The noun being modified is from class 13.

3.3.4.4 Coordination of a Demonstrative, an Adjective and Numeral

In Gîtigania, it is possible to use a demonstrative, an adjective and a numeral to modify the same noun. In such cases, the noun appears first, followed by a demonstrative, then a numeral and the adjective comes last. Each of the modifiers carries an agreement marker corresponding to the class of the noun being modified as shown in (52).

a.	Macunkv	vaya	a	ya	thatũ	ya	moru	Oranges 6	AM6	these
	NM6	three	AM6	rotten						
	'These three	e rotten c	ranges'							
b.	Arî	ba	ara	ba	tano	ba	baũme			
Girl	ls 2 DM2	those	NM2	five	AM2	bright				

'Those five bright girls'

The preferred option for Bantu languages is N+ [(possessive) (demonstrative) (numeral) (adjective)] (Lusekelo, 2009). This study deals with three types of modifiers: adjectives, numerals and demonstratives. Borrowing from Lusekelo, the order for the three would be N+ (Dem) (Num) (Adj) with which Gîtigania agrees. All modifiers are post-head.

4. Summary

Based on the data presented in this article, the following is a summary of what was found out:

- i. There are agreement patterns in Gîtigania.
- ii. Affixes that correspond to various noun classes are used to mark agreement patterns in Gîtigania.
- iii. There is subject-verb, verb-object and noun-modifier agreement in Gîtigania.
- iv. Subject-verb and noun-modifier agreement is obligatory while verb-object agreement is optional.
- v. In case noun phrases are coordinated in Gîtigania the agreement morpheme used either corresponds to the plural class of the coordinated conjuncts or the default class 8. In other cases coordinated NPs functioning as objects are not marked for agreement unless if fronted. When Gîtigania conjuncts are coordinated with a conjunction of choice, agreement is usually with the second conjunct.

5. Conclusion

In this paper, we have argued that:

- i. Affixes are obligatorily attached to verbs to mark subject-verb agreement in Gîtigania sentences.
- ii. Noun phrases in Gîtigania can be coordinated whether from the same or from different noun classes. In such cases, if nouns from the same noun classes are coordinated with a conjunction of addition, a marker from the plural class of the coordinated nouns is used. However; if the coordination indicates choice, Agreement in Gîtigania generally tends to obey the principle of proximity. Agreement is with whatever noun or pronoun that precedes the agreement marker. In cases of coordination of non-animate nouns from different noun classes, the SM used for agreement is from the default class 8.
- iii. There is optional verb-object agreement in Gîtigania. In cases of verb-object agreement, the object marker prefixed to the verb displays agreement which is determined by the object noun phrase. With the direct object, the object noun phrase does not co-occur in the same sentence with the object agreement marker in normal use. Where there are ditransitive verbs the object marker used corresponds to the indirect object.
- iv. There is noun-modifier agreement in Gîtigania. Agreement is marked by attaching an agreement morpheme that corresponds to the noun class of the NP being modified. In Gîtigania, agreement is marked morphologically.
- v. One or more attributes can be used to qualify the same noun. This means that one or several elements can be stacked after a head noun. The noun phrase precedes the modifier(s) and strings them rightwards. Modifiers carry prefixes that correspond to the class of the noun phrase being qualified except numerals 7, 9 and 10. In case a noun phrase is qualified using a numeral, an adjective and a demonstrative, the demonstrative appears first, followed by a numeral and the adjective comes last hence the accepted neutral pattern is N + (Dem) + (Num) + (Adj).

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