JOLAN Volume 22 No 2 (2019) pp. 143 - 155 website: www.jolan.org.ng Enwere, Ndimele and Ashekini: Referential nouns and complementation in Mbaīsé-Ígbò

Referential nouns and complementation in Mbáīsé-Ígbò: A Government and Binding Approach

Obioma Bibian Enwere, (PhD), Prof. Ozo-mekuri Ndimele

Department of Linguistics and Communication Studies University Port Harcourt, Port Harcourt enwerecares@gmail.com; mekuri01@yahoo.com

and

Thomas Ashekini

Department of Languages and Linguistics Nasarawa State University, Keffi tomashiks@gmail.com

Abstract

Different noun types demand for and selects other grammatical elements (complements), which help to expand the head from a bare lexical element into a phrase. This paper investigates the derivation and order of relationship between simple referential nouns and derived referential nouns with their modifying/specifying elements and the complementation processes of these nominal elements. Adopting the Government and Binding (GB) framework and a qualitative method, with primary and secondary data, it is observed in Mbáīsé-Ígbò, that simple noun heads take complements to the right to specify and limit their references, while derived nouns are generated in situ with their complements which receive their inherent theta roles, but reflexives/reciprocals (anaphors), do not subcategorize complements in that their complements have been inbuilt in them. In a [noun+ noun] relationship or a compound noun, the initial noun is the head, the other nominal element is the modifier/specifier. The observation generally is that of head-complement relationship, where the head occurs in the initial position, with modifier following it.

Keywords: Government and Binding, Referential nouns, Noun phrase complement, complementation

Introduction

The data on Mbáīsé-Ígbò nouns has been classified in terms of displaying the properties [± pronominal], which produces the different noun types or referential expressions, comprising, WH-words, reflexives/reciprocals and simple referential nouns. This classification is adopted because it characterizes the distribution of phonetically audible nouns as the only ones that subcategorize complements. This paper divided into sections, considers the referential nouns-simple referential nouns and derived referential nouns or nouns formed from verbs (verbal nouns), and compound nouns. A referential expression is a noun with independent reference. It could be a simple word or a derived/complex word. These NPs with their modifiers enter into syntagmatic relationships with their complements coming after them, hence, the noun phrase is argued to be strictly head-initial and complement-final. This paper highlights the complement activities of these noun types and what makes them a unique study.

Theoretical reviews Government and binding

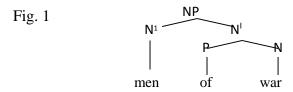
Government and Binding (GB) framework is a theory of syntax and phrase structure grammar, developed principally by Noam Chomsky in the 1980s. The main application of government relations concerns the assignment of case and the proper government of Empty Category Principle (ECP), while binding accounts for the grammaticality or otherwise of structures. Governors are the head of each of the categories (V, N, A, P) and tensed I (T). The head designated as X, with the maximal projection XP, may be preceded or followed by specifiers and complements.

X-bar Syntax

The X-bar theory determines which lexical items must occur in the D-structure. The X-bar in generative linguistics as an alternative to traditional accounts of phrase structure and lexical categories, using a system of X-bars, each of which identifies a level of phrasal expansion to account for the intermediate categories, which were not accounted for in previous phrase-structure models. The structure of phrases is governed by the principles of X^I theory, where every phrase (XP) is a projection of a head (X^O). The head may be combined with a complement phrase and a specifier according to the parametric principles of any particular language

Complement in Government and Binding

A complement is any constituent which shares the same node with a lexical head as in the case of English, a head-initial language, where: $XP \rightarrow XCOMP$. In $XP \rightarrow XCOMP$, X stands for a lexical category e.g., P, N, V, while Comp, stands for complement (which could be a PP or an NP). When X equals N, then XP is an NP, as in 'men of war' as in Fig.1 below:



In GB, the term 'complement' does not identify a categorial element, but a position which is filled by different items of various categorial statuses (Mbah 2012:128). In SVO languages, the complements of X^0 follow it. This is the case in English where the branching direction of V^1 containing the complements of V^1 is to the right, just as the complements or V^1 and V^1 are to the right, i.e., V^1 is to the right, just as Korean and Japanese, exhibit an alternative order, (SOV) or V^1 is to the head appears to the right of its complement.

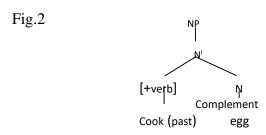
Empirical reviews: Noun phrase complement

Nouns may be defined from their grammatical functions, as predicate complements, which theoretically display certain types of inflectional properties like number, gender, case, etc., with "have specific distribution", like following "preposition... and perform a specific syntactic functions (e.g. as subject or object of a sentence" (Crystal 1991: 236). Nouns could be semantically opaque, vacuous or transparent. The meaning of semantically vacuous nouns cannot be precisely determined even in context by reason of semantic over-loading, hence, such nouns usually demand for complements to help make their meaning precise. In sentences (1a-b), the phrases- 'the boy' and 'that seat', are somewhat vacuous, but when they take the complements 'in blue uniform' or 'that is high', respectively, as in 1(c-d), they become more precise.:

- 1(a) The boy went home. (b) I want the seat.
- (c) The boy in the blue uniform went home. (d) I want that seats that is high.

The noun head determines the part of speech of marking for the phrase as a whole (Bauer 1990:1), and complements of noun are not obligatory constituents of the NP, as seen in sentences 1(a)-(d). That is why Herbst (1988:299-300) claims that syntactically; "... complements are classified as obligatory or optional according to whether their deletion makes a sentence ungrammatical or not", explaining that when obligatory complements are not realized, the sentence containing the nouns would be ungrammatical. However, when the complement is optional and not realized, the sentence is grammatical but unacceptable. "Unacceptable" here means that the noun is semantically ambiguous, lacking precision and specificity. Complements are thus by this analytical definition, constituents that specify the meaning of a head noun. Radford (1988:175-176) notes that "... complements... denote grammatical functions or relations", saying that this "have the same status as the terms like "subject and object".

Different NP positions like subject or object of a case assigner and can as well demand for antecedent based on its class, i.e. ($[\pm \text{ anaphor}]$); hence, different head noun types will demand for different positions, like head-initial position or head-final position. The head being "the constituent whose distribution is the same as that of the resultant construction, the other constituents being modifiers" (Lyons 1968:233), example, 'the pen on the table in the room', has the 'pen' as the head noun with "on the table in the room', as its complement. The head noun 'pen' is a head-initial noun. This is a [-verb] complement. The dimension of $[\pm \text{ verb}]$ is employed because the verb is crucial in determining whether a noun phrase is a subject or object in a sentence, therefore, is more likely to occur 'externally', i.e., in the initial position, because a [+verb] complement in English occurs before a head final noun as in: 'cooked egg'



The NP types (R-expressions) which may demand for complements and have theta roles assignable to them includes, lexical NPs, WH-words, pronouns and small pro. The complements which may be demanded for by the referential nouns should to be semantically compatible with the head nouns. Pronominal take antecedents outside their locality. The implication of this for complement is that an NP that has an anaphor for its head will need an antecedent to clarify its reference.

Mbáīsé-Ígbò noun types and complements

This highlights some of the noun types that possibly demand for complements, which have been classified as referential expressions or phonetically audible nouns.

Referential expressions in Mbáīsé-Ígbò

A referential expression is a noun that has an independent reference, not dependent on upon any other word in the sentence for the clarity of its meaning. It could be a simple words, derived/complex words or verbal nouns and compound nouns. The referential nouns include:

Simple nouns/words like- úyò 'house', áká 'hand', ányá 'eye', ákwúkwó 'book', Mmírī 'water', Qbá 'ban'.

Simple nouns do enter into syntagmatic relationships with other categorial elements as qualifiers/specifiers (complements).

- > Complex nouns/derived words on the other hand, are formed from verbs and are grouped into different classes of verbal nouns agentive nouns, instrumental nouns, gerundive nouns and reduplicative nominalization.
- > Compound nouns are [noun +noun] compounds that occur in a string to represent one item. They are more of transliterated words, as in úyò ákiriká 'thatched house', úyò ógwù 'hospital', élú úgwú 'top of mountain/mountain top'

Complex nouns/derived nouns are presented thus: Nouns formed from verbs (verbal nouns): Examples:

```
2. (a)
                                - da
                                               = ádà
                  [noun]
                               [+verb]
                                               'a fall'
                 [morpheme]
                                        'fall'
                                     'her/his fall'
                 ádà yá
  (b)
                 ḿ
                                 -má
                                                      = mmā
                 [noun]
                                 [+verb]
                                                           'beauty'
                [morpheme] ('being) beautiful'
                 mmá Àdá
                              'the beauty of Ada/ Ada's beauty'
         (c)
                 ń
                                  -ká
                                             ńká
                 [noun]
                                  [+verb]
                                             'ageing'
                 [Morpheme] 'ageing' ńkā Àdá
                                                        'the ageing of Ada'
```

```
(d)
                 à
                                          -kú
                                                             = àkù
                  [noun]
                                         [+verb]
                                                    'wealth
                  [ Morpheme]
                                        'gather wealth'
                 àkù Òbí
                                   'Obi's wealth'
         (e)
                   ú
                                  -bé
                                                    = ùbé
                                                     'cry'
                  [noun]
                                [+verb]
                  [morpheme]
                                  'cry'
                                          'the cry of a bird'
                  ùbé
                          ńnúńú
        (f)
                 Ó
                                                           Òbí
                                     -bí
                  [noun]
                                  [+verb]
                                                  'hut'
                                    'live'
                 [morpheme]
                 Òbí èzè 'the king's palace'
(ii) Agentive nouns - agents from verbs with the morphemes (o-/o-)
                 Ó
        3. (a)
                                -gbú
                                                             = 'ògbú ágū
                                            ágū
                                                                       ' the killer of lion'
                  [noun]
                 [morpheme] [+verb]
                                          lion' [noun compl]
                  (the one that kills lions)
                   Ó
                                                                  ògbú ánū '
          (b)
                                           ànù
                  [noun]
                                                                 'a butcher'
                  [morpheme]
                                    [+verb] meat
                             'kill'
                                             [noun compl]
              (the one that kills animals)
         (c)
                     Q
                                  -kwó
                                          úgbó
                                                             = òkwó úgbō
                  [noun]
                               [+verb] [noun compl]
                                                              'a driver'
                 [morpheme]
                                drive vehicle
                 (the one that drives vehicle)
                               -gbá
        (d)
                                            égbè
                                                             = ógbá égbè
                  [noun]
                                                             'a marksman'
                           [+verb] [noun compl]
                  [morpheme]
                                  shoot
                 (the one that shoots gun accurately)
                    Ó
        (e)
                                                                 Òbú ájá
                                  -bú
                               [+verb]
                                                                'carrier of sand'
                 [noun]
                                               [noun compl]
                  [morpheme]
                                             sand
                 (the one that carries sand)
                                                    = Ogbá mgbádà
        (f)
                 Q
                            -gbá mgbádà
                            [+verb] [noun compl]
                                                              'the shooter of antelope
                  [morpheme] shoot
                                            antelope
                 (the one that shoots antelope)
(iii) Instrumental nouns- instruments from verbs with (m-/n-) morphemes
    4. (a)
                                     kpópú
                                                                       mkpópú
                  ḿ
                                                    (ìhé)
                  [noun]
                                     [+verb]
                                                              'opener'
            [Morpheme]
                             hit open
                  'instrument for hitting open(something)'
```

```
(b)
                         -kpáká (ìhé)
                                                    = mkpáká
            m
                                                      'instrument for opening'
             [noun]
                                  [+verb]
            [morpheme] force open
              'instrument for forcing open(something'
   (c)
                  ń
                                   -chíchá =
                                                   ńchíchá
                                                            'wiper'
                                  [+verb]
                  [noun]
                 [morpheme]
                                  wipe
                 'instrument for wiping (something)'
    (d)
                                             = myò
                                 -yọ́
                  m̀
                                           instrument for sieving'
                  [noun]
                               [+verb]
                  [morpheme] sieve
              'instrument for sieving (something)'
(iv) Gerundive nouns-nominal formed from verbs with O-/O- morphemes
5. (a)
                      rí
                            rí
                                            ńrí
                 [noun]
                                                   [noun] = órírí ńrí
                            [+verb][+verb]
                 [morpheme]
                                  eat eat
                                                  food
                          'the eating of food'
                 Ó
     (b)
                                                                ánú = ógbúgbú ánū
                                     gbú
                                                   gbú
                 [noun]
                                  [+verb] [+verb]
                                                     [noun compl.]
                 [morpheme]
                                 kill
                                                     kill
                    'the cutting of meat/the butchering of animal'
                Ó
                                                      sí
        (c)
                                    Sĺ
                                                             ńrí
                                                                     = ósísí ńrī
                 [noun]
                                  [+verb] [+verb] [noun compl]
                 [morpheme]
                                  cook
                                                    cook
                                                              food
                 'the cooking of food'
         (d)
                   Ó
                                                            úgbó

    Ó kwúkwó úgbó

                                  kwú
                                             kwó
                 [noun
                                  [+verb]
                                            [+verb]
                                                             [noun compl]
                 [morpheme]
                                 drive
                                              drive vehicle
                 'the driving of vehicle
```

Discussion and analysis of data

Verbal nouns include agentive nouns, instrumental nouns and gerundive nouns, which are noun types derived from verbs. These nouns obligatorily co-occur with their complements/specifiers, which show the type of agents/instruments/nouns being referred to. For instance, [ádà yá] 'her fall', in 2(a) comprises [ádà] 'a fall', a noun from the verb ídà 'to fall', which subcategorizes the complement [yá], (him/her/it), an object complement or the experiencer of the action of 'falling'. In 2(b), [mmá] (beauty), is noun derived from the verb [ímā] (to be beautiful). [mmá] is an abstract noun and needs an 'expriencer' (complement) - [Àdá], to express the quality of 'beauty'. Nká Àdá 'ageing of Àdá' in 2(c), is abstract noun derived from the verb 'ikā ńkā' (to age), and like 2(b), it subcategorizes a noun complement [Àdá], as the 'experiencer' of the action of 'ageing'.

In 3(a) the agentive noun, ógbú ['killer] is agent derived from the verb 'ígbū' (to kill).. The verb subcategorizes an object complement [ág \bar{u}], telling what kind of animal the agent kills,

hence, 'ògbú ágū 'a killer of lion'. In 3(b), [Ógbú ànù],comprises of an agent [Ògbú] derived from the verb 'ígbū'(to kill), and verb subcategorizes an object complement ánū, showing what the agent cuts/ kill, hence, Ògbú ánū 'butcher, while in 3(c), Ọkwó úgbó, Ọkwó is noun agent derived from the verb 'ikwò. As verbal agent, [òkwó] 'a driver', subcategorizes a complement [úgbō] 'a vehicle'

In 4 (a), (b), (c) the noun instruments [mkpopu]\ (instrument for opening) 'an opener (b) [mkpaka] (an instrument for breaking open), and '(c) [nchicha] (an instrument for wiping) or 'a wiper', are derived from the verbs [ikpopu] 'to hit open', ikpaka' 'to tear open' and ichicha' (to wipe off/clean', respectively. These are instruments for doing something, which is the complement, therefore, the may be associated with 'the something', hence, they may subcategorise [ihe] (something) as in - [mkpopu ihe]\ (instrument for opening something) [mkpaka' ihe] (an instrument for breaking open something) and [nchicha' ihe] (an instrument for wiping something)

In 5 (a) [órírí ńrí] 'the eating of food', (b) [ógbúgbú ánū], 'the cutting of meat/the butchering of animal' (c) [ósísí ńrí], 'the cooking of food' (d) [Ókwúkwó úgbó], 'the driving of vehicle', each of the gerunds, is accompanied by its complement, [ńrí] 'food', [ánū], 'meat /animal' and úgbó '[vehicle]', respectively. The complements specify the agentive roles.

Head-initial nouns/simple referential nouns with complements

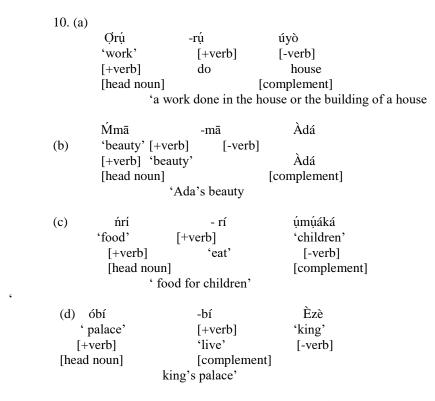
The nouns in Mbáīsé-Ígbò occur within the noun phrase head-initially, and demand for complements to the right. Head-initial referential nouns demands for their complement to the right. It is observed that no matter the nature of the noun complement demanded for by the referential nouns, the syntactic feature required is merely to describe and limit the domain of reference of the head noun as in these examples

```
9. (a)
        Nwókō
                  óchá
                                 'fair complexioned man'
         [-verb] [-verb]
       Man
                           white
    [Head noun]
                    complement
(b)
        Égbè
                           ósísí 'wooden gun'
        [-verb]
                         [-verb]
        [head noun]
                          'wood'
          'gun'
                         complement
(c)
      úyò
                         òké
        [-verb]
                         [-verb] 'rat's house'
       house
                       rat
         head noun
                       complement
```

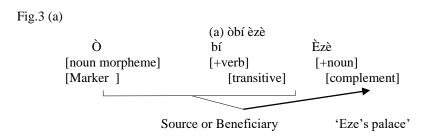
The head nouns Nwókō, (man) Égbè, (gun) úyò (house), respectively, in data 9(a)-(c), on their own are ambiguous without the complements ochá, (fairness) osísí, (wood/tree) oké, (rat) respectively, hence, the complements function to make precise the meaning of the heads. This is a case of [noun+noun] relationship, where second nominal element modifies the first which is the head.

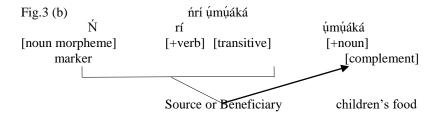
Head-initial derived referential nouns

When the head noun has a [+verb] feature and is head-initial, it demands for a complement that will receive theta role from it as in the following examples:



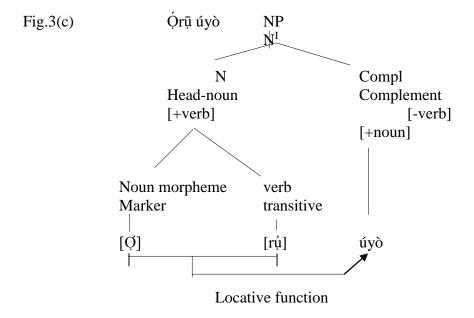
It is observed from data 10(a)-(d), that the NPs Mmā Àdá, (Ada's beauty) Orū úyò (house work), ńrí úmúáká, (food for children), Òbí èzè, (Eze's' palace), which have the heads, Mmā, Orú (work), ńrí (food), Òbí (hut/palace), respectively, are derived NPs because their heads are nouns derived from verbs. The [+VERB] feature of the head nouns allow them to enjoy an inherent theta role assignment of patient. Therefore the heads in the above data demand for complements which may either be a source or beneficiary. This is shown with the figures below (cf.3(c) and (d).



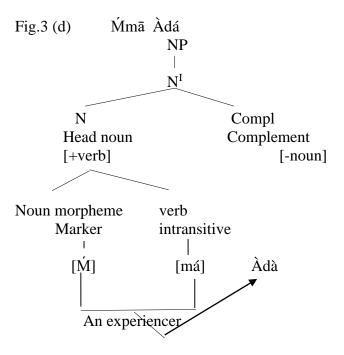


'Obi eze' in no.10 (d), could mean either a palace from ézè (the king) (source) or a palace for the king (ézè) (beneficiary). A possible explanation to why the two interpretations are acceptable is that óbí 'palace', suggests a patient -an object that has received the action of the transitive verb 'bi' "live". This presupposes that there was a possible agent (source) of the action of the verb and a possible beneficiary, benefiting from the action of the verb on the patient. Therefore, the complement ézè might be the source of the patient Òbí, or, the beneficiary or possessor of the patient. It is the same issue with ńrí úmúáká (food for children) in 10(c). The [+verb] element -rí, (eat) in the head noun 'ńrí' 'food', suggests that the head noun has an inherent theta role of patient. If the head noun is a patient, it presupposes that there must be a source (agent of the verb) or a possible beneficiary or possessor of the patient.

Therefore, the complement úmúáká (children) could be either a source or a beneficiary. In the case of 10(a), the head noun Órú (work) has as inherent theta role of location assigned to it by its [+verb] element -rú (do/ work), which is a transitive verb. Therefore Órú (work), can only demand for a complement that will specify its location; this is achieved in úyò 'place', as demonstrated in Fig.3(c) (cf.10 (a):



In 10(b), the NP Mmā Àdá has the head Mmā, the [+verb] element which allows it to enjoy an inherent theta role of being a state. Because the head is a state, it will demand for a complement which will not just specify it, but would be semantically compatible with this theta role and must be a concrete noun, able to experience the state "of being beautiful", like Ada in Fig.3 (d) (cf.10 (b)



Complement of compound nouns

In a (noun + noun) compound, the first noun component (the initial word), is the head, the other element, also a nominal, serves as a qualifier of the head or a complement that describes or limits the domain of reference of the head noun. Most of the nouns in the nominal compounds of a [noun + noun] compound are transliterated words in Mbáīsé–Ígbò as in.

11. (a)		úyò	ákiriká	'thatched house'
		[-verb]	[-verb]	
		Head noun	complement	
		house	thatch	
	(b)	úyò	ókúkó	
		[-verb] [-verb	ol 'chicken	is pen'
		head noun	complen	•
		house chick	•	
	(c)	úyò	ógwù	
		[-verb]	[-verb] ']	hospital'
		Head noun	compleme	ent
		house	medicine	
	(d)	élú	úgv	vú
		[-verb]	[-ve	erb]
		head noun	comple	ement
		top	mounta	
				1

Summary

The paper has been on the complementation activities of simple referential and derived nouns in Mbáīsé-Ígbò and their relationship in GB syntax. The simple referential nouns demand for complements that limit their reference, while the derived nouns demand for complements that receive theta roles from them. Each of the structures show head-complement relationships where the first nominal element is the head being modified by the following nominal. The reflexives and reciprocals do not subcategorize noun phrase complement complements. Semantic compatibility is necessary in the relationship between the derived head noun and its complement.

Findings

Nouns in Mbáīsé-Ígbò are vacuous without complements. Head-initial derived nouns demand for complements that receive theta roles from them. The [+VERB] feature of the head nouns allows them to enjoy an inherent theta role assignment of patient. Therefore, the heads demand for complements which may either be a source or beneficiary. Anaphors and reciprocals have no need for complements; rather their antecedents which they take reference from may need complements. Complements of compound nouns are mainly transliterated forms, where the second noun component explains or describes the head noun. Theoretically, there is a correlation between the semantics and syntax of the complementation of referential nouns and their heads. Complementation is necessary to further the meaning and to understand the structure of a head noun. It is observed that the phrase structure of the Mbáīsé-Ígbò noun types can be subjected the GB syntax analysis with comparative result as in English.

Contributions to knowledge

The work has underscored the importance of complementation in the grammar of the dialect and Igbo language at large. Theoretically, there is a correlation between the semantics and syntax in the complementation referential nouns and their heads. Furthermore, it is observed that the complementation activities of the various noun types can be verified using the GB framework. Grammatically, it provides information about the behaviour of derived nouns, reflexives and reciprocals and their complementation processes. Pedagogically, the work leaves behind some facts for language teaching and further researches on grammar, intralinguistic and comparative linguistic activities of the dialect in particular and Igbo at large. This helps to highlight the parametric principles that are applicable to the dialect and Igbo in general.

Recommendations

Further research on the complementation processes of referential nouns and the flexibilities in the occurrences of some head nouns in the initial, medial, final positions in some nouns in relation to the head noun and their complements.

Conclusion

Complementation is necessary for the specificity of the Mbáīsé-Ígbò nominal category; hence without a complement the noun is vague, for this further research is recommended on the concept.

References

Andrew, C. 2006. *Syntax: a generative introduction. second edition.* Blackwell Publishing. Buar, L. 1990 "Beheading the word" in: journal of linguistics. Cambridge, CUP pp1-31

Blench, R. and Mallam, B. 2004. The Benue Congo languages. Cambridge.

Cook, V. I. 1997. Inside language. London. Routledge.

Cook, V. I. and M. Newson 1998 *Chomskiy's universal grammar: an introduction* Oxford: Blackwell Publishers.

Chomsky, N. 1981. 'Lectures on government and binding'. Dordrecht: Foris Publications

Chomsky, N. 1982. Some concepts and consequences of the theory government and binding. Cambridge. MA:MIT Press

Chomsky, N. 1986a. 'Knowledge of language: its nature, origin and use' in: *government and binding* Mass: MIT Press

Crystal, D. 1990 A dictionary of linguistics and phonetics. Third Edition. Oxford . Blackwell Publishers

Crystal D. 2000. *The Cambridge encyclopaedia of the English language*. United Kingdom, at the University Press. Cambridge.

Eka, M.E 1998 'Noun phrases in Ibibio' in: Eka (1998) studies in language and literature. Uyo. Afangide & Bros.

Emenanjo, E.N. 1975(b) 'Central Igbo-an objective appraisal' in: Ogbalu, F.C. and Emenanjo, E.N. (eds.) *Igbo language and culture*. Ibadan: Oxford University Press.

Emenanjo, E. N. 1978. Elements of modern Igbo grammar. Ibadan Oxford University Press.

Emenanjo, E.N. 1982. 'Nominal modifiers in modern Igbo in: 'Ogbalu, F.C. and Emenanjo, E.N. (eds.) *Igbo language and culture* vol. 2 Ibadan. Oxford University Press.

Enwere, O.B 2010 A syntax of the Igbo noun phrase: the Mbáīsé Unpublished MA Thesis University of Port Harcourt

Essien, O.E. 1990 *A grammar of the Ibibio language*. Ibadan. University of Ibadan Press Herbst T. 1988. 'A valency model for nouns in English' in: *journal of linguistics*. Cambridge. Cambridge University press vol. 24, no.2 pp 265-301

Fowler R. et al 1995. The little brown handbook. 6th Ed. New York HarperCollins p. 751

Gorgi, A. and Longobardi, G. 1991. *The syntax of noun phrase: configuration, parameters and empty categories.* Cambridge Studies in Linguistic 57. Cambridge: Cambridge University Press.

Greenbaum, S and Quirk, R.1990. A student's grammar of English language. London. Longman.

Haegemon, L 1994 Introduction to government and binding theory (Second Edition) Blackwell

Kayne R. 1994. Linear correspondence axiom. MIT Press.

Kayne, R. 1994 'Antiassymetry of syntax' the MIT Press

Lyons, J.1968. Introduction to theoretical linguistics. Cambridge University Press

Mbah, B.M. 1999. Studies in syntax: Igbo phrase structure. Nsukka: Prize Publications.

Mbah, B.M. 2000 'The logic of phrase structure' *Journal of linguistic association of Nigeria* (JOLAN) no.7 pp 35-46.

Mbah, B.M 2003. 'The syntax of complements In Igbo' in: Ndimele, O-M (ed.) (2003) in: The linguistic paradise. Aba:NINLAN

Mbah, B.M. 2006. GB syntax: theory and application in Igbo. (no place)

Mbah, B.M. 2012. GB syntax: a minimalist theory and application to Igbo. Enugu. CIDJAP Press

Ndimele, O-M. 1992 *Parameters of universal grammar: a government and binding approach*. Owerri. African Educational Services.

Nigel, F. 1994 Sentence structure. New York: Routledge

Nwachukwu, P.A. 1975. 'Noun-phrase sentential complements in Igbo' (unpublished) PhD dissertation. *University of London*

Nwachukwu, (1985) 'Inherent complement verbs in Igbo' JOLAN vol. 3 pp.11- 22

Nwachukwu, P.A. 1988. 'Nigerian languages and linguistic theorizing' (a paper presented at the 9th annual conference of the linguistics association of Nigerian

Ogbonna, A.N.1999. Head-complement relations in Ngwa-Igbo. an M.A thesis (unpublished) University of Port Harcourt

Oluikpe, B.O 1979. Igbo transformational syntax. Onitsha: Africana Publishers.

Radford, A. 1988. Transformational grammar. Cambridge. Cambridge University Press.

Ume, I.A et al. (eds) 1989 *Umi nkowa utoasusu Igbo*. Onitsha. Kawuriz and Manilas Publishers Ltd.