Gebregziabher, Keffyalew. 2013. Projecting possesors: A morphosyntactic investigation of nominal possession in Tigrinya. Doctoral Dissertation, University of Calgary.

Lecture 11

October 6, 2023

1 Introduction

Recall that Tigrinya has various means by which possession can be expressed in the nominal domain:

- (1) Prepositional Possessor Construction
 - a. naj təsfaj məts'haf
 of Tesfay book
 'book of Tesfay'
 - b. naj joni gəza of John house 'house of John'
- (3) "Possessive Pronoun" Construction
 - a. nat-u məts'ħafPOSS-3MS book'his book'
 - b. ?it-i nat-a məts'haf that-MS POSS-3FS book 'the book of hers'

- (2) Post-Nominal Possessor Construction
 - a. wəddi-t-i məmhir son-that-MS teacher 'the teacher's son'
 - b. Sarki joni friend John 'John's friend'
- (4) Suffixal Possessor Construction
 - a. məts'haf-u book-POSS.3MS 'his book'
 - b. məts'haf-əj book-POSS.1S 'my book'

Gebregziabher (2012, 2013) is interested in demonstrating that the possessive strategies in (1) and (2) are derived via two independent syntactic structures.

The proposal presented in Gebregziabher 2012, which is refined and further articulated in Gebregziabher 2013, is as follows:

- (3) a. $[_{DP}$?it-i $[_{NP}$ nəj-t-i məmħir $[_{NP}$ məts'ħaf]]] that-MS NAJ-that-MS teacher book 'the book of the teacher'
 - b. [DP ?it-a [NP hafti [DP ?it-i məmhir]]] that-FS sister that-MS teacher 'the teacher's sister'

(Prepositional; Alienable)

(Post-Nominal; Inalienable)

This is as opposed to a possible derivational approach to nominal possessive constructions in English:

- (4) a. $[_{DP}$ the $[_{NP}$ daughter $[_{PP}$ of Regina]]]
 - b. [DP Regina] 's [NP daughter PP of Regina]]]

Our interest today is in the proposal made by Gebregziabher (2013:ch.4) regarding the syntax of the Post-Nominal Possessor frame in Tigrinya, which he refers to as the *Bare Possessive Nominal* (BPN).

Empirical Contribution. The empirical contribution of this chapter is a comparison of Tigrinya with the Construct State Nominal (CSN) in Hebrew and Arabic.

It is found that BPNs in Tigrinya share a number of properties with CSNs:

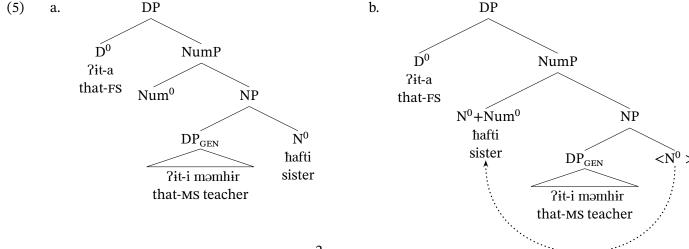
- **Head-Initialness**: The head noun precedes the genitive phrase.
- Asyndeticity: The relation between the head noun and genitive is not signaled by adpositions.
- Strict Adjacency: The head noun and genitive phrase are necessarily adjacent.
- **Obligation of Genitive Phrase:** The genitive phrase is obligatory in the Construct State syntax.
- Word Formation: There are structural and morphological similarities with compounding.

However, there are also certain properties that CSNs display that distinguish them from Tigrinya BPNs:

- (In)alienability: There is no (in)alienability restriction on the possessive relation.
- **(In)definiteness Spreading:** The (in)definiteness of the genitive phrase "spreads" to the entire nominal complex.
- **Bound Forms**: The head noun has a particular morphophonological form.

Theoretical Contribution. The theoretical contribution of Gebregziabher 2013:ch.4 is a theory of Tigrinya BPNs as CSNs that accounts for these properties.

The picture we are ultimately provided is one that can be sketched roughly as in (5):



2 Similarities between Semitic CSNs and Tigrinya BPNs

This section introduces some of the characteristic properties of CSNs in Hebrew and demonstates that these properties hold equally in Tigrinya BPNs.

Head Initialness. The head noun precedes the genitive phrase (Gebregziabher 2013:182-183, 190).

- (6) a. dodat ha-balʃan b. bejt ha-mora aunt the-linguist house the-teacher 'the linguist's aunt' (Hebrew) 'the teacher's house (Hebrew)
- (7) a. ħafti jəwhanis b. dəkk'i ?it-om ħarəstot sister John son.P that-MP farmer.P 'John's sister' (*Tigrinya*) 'the sons of farmers' (*Tigrinya*)

Asyndeticity. The relation between the head noun and genitive is not signaled by adpositions (Gebregziabher 2013:183, 190–191).

- (8) a. bejt ha-mora b. *bejt fel ha-mora house the-teacher house of the-teacher 'the teacher's house (Hebrew) 'the house teacher's house' (Hebrew)
- (9) ha-dira ʃel ha-sar the-apartment of the-minister 'the apartment of the minister' (*Hebrew*)
- (10) (*naj) wəddi (*naj) jəwhanis (11) naj jəwhanis məts'haf
 NAJ son NAJ John NAJ John book
 'John's sister' (*Tigrinya*) 'John's book' (*Tigrinya*)

Strict Adjacency. The head noun and genitive phrase are necessarily adjacent (Gebregziabher 2013:184, 191–193).

- (12) a. bejt ha-mora ha-gadol b. *bejt ha-gadol ha-mora house the-teacher the-big house the-teacher 'the teacher's big house' (Hebrew) b. *bejt ha-gadol ha-mora house the-big the-teacher 'the teacher's big house' (Hebrew)
- (13) a. [nəwahati [dəkk'i harəstot]] b. *[dəkk'i nəwahati] harəstot tall.P son.P farmer.P son.P tall.P farmer.P 'tall sons of farmers' (Tigrinya) 'tall sons of farmers' (Tigrinya)

Obligation of Genitive Phrase. The genitive phrase is obligatory in the Construct State syntax (Gebregziabher 2013:184, 193).

(14) jaldej *(ha-mora)
children.CS the-teacher
'the teacher's children' (Hebrew)

(15) [dəkk'i *(ħarəstot)] s'aSramat ?ijj-om son.P farmer.P diligent.P be-S3MP 'Sons of farmers are hardworking.' (*Tigrinya*)

(16) [ħafti *(jəwħanis)] tɨmali məts'i?-a sister John yesterday come-S3FS 'John's sister came yesterday.' (*Tigrinya*)

Word Formation. There are structural and morphological similarities with compounding (Gebregziabher 2013:186-187, 194).

(17) Hebrew

a. beit sefer b. beit xolim c. beit malxa house book house sick.PL house work 'school' 'hospital' 'workshop'

(18) Tigrinya

a. hafti Sinno b. bet timhirti c. bet mixri sister mother house education house advice 'aunt' 'school' 'parliament'

3 Differences between Semitic CSNs and Tigrinya BPNs

(In)alienability. There is no (in)alienability restriction on the possessive relation (Gebregziabher 2013:188).

(19) a. dodat ha-balʃan b. bejt ha-mora aunt the-linguist house the-teacher 'the linguist's aunt' (Hebrew) 'the teacher's house (Hebrew)

Tigrinya BPNs express inalienable possessive relations.

(20) a. wəddi-t-i məmhir b. *məts'haf-t-i məmhir son-that-MS teacher book-that-MS teacher 'the teacher's son' (*Tigrinya*) 'the teacher's book' (*Tigrinya*)

(In)definiteness Spreading. The semantic (in)definiteness of the genitive phrase (generally) "spreads" to the entire complex (Gebregziabher 2013:184, 196–198).

(21) a. (*ha-)bejt ha-mora b. (*ha-)bejt mora (the-)house the-teacher (the-)house teacher '*a/the house of the teacher' 'a/*the house of a teacher' (Hebrew) (Hebrew)

In Tigrinya the definiteness of the entire complex is determined independent of the (in)definiteness of the genitive phrase.

?ansti ħarəstot ?it-ən ?ansti ħarəstot (22)a. wife.P farmer.P that-FP wife.P farmer.P 'wives of farmers' 'the wives of (*the) farmers' (Tigrinya) (Tigrinya) b. ?ansti ?it-om ħarəstot d. ?it-ən ?ansti ?it-om ħarəstot wife.P that-MP farmer.P that-FP wife.P that-MP farmer.P '(*the) wives of the farmers' 'the wives of the farmers' (Tigrinya) (Tigrinya)

Bound Forms. The head noun of CSNs has a particular morphophonological form (Gebregziabher 2013:185,).

(23)	Free	Bound	Gloss	(Hebrew)
	a. bajit	bejt	'house'	
	b. doda	dodat	'aunt'	
	c. jeladim	jaldej	'children'	

Tigrinya does not have dedicated morphological forms for BPNs.

On the basis of the substantial overlap between the properties of CSNs in Semitic generally and BPNs in Tigrinya, Gebregziabher (2013) proposes that BPNs are in fact a particular flavor of CSN.

The challenge is to provide an analysis that accounts for both the similarities and differences between Hebrew/Arabic and Tigrinya.

4 Previous Analyses of Construct State Nominals

This section introduces previous analyses of CSNs in Hebrew and argues that they should be dispreferred as they are conceptually and are empirically unsuited for Tigrinya.

4.1 Snowballing Phrasal Movement: Shlonsky 2004

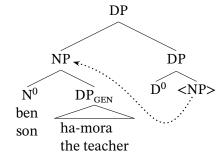
The Proposal. This analysis is embedded within a more general proposal for nominal constituents in Hebrew whereby successive applications of phrasal movements place the noun in an initial position.

b.

In CSNs, NP movement moves the head and the genitive phrase to the specifier of DP.

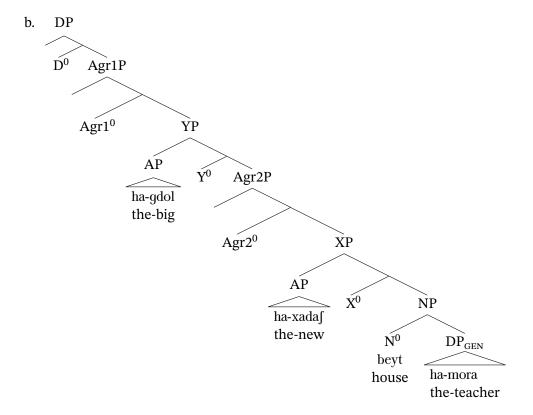
(24) a. ben ha-mora son the-teacher 'the teacher's son'

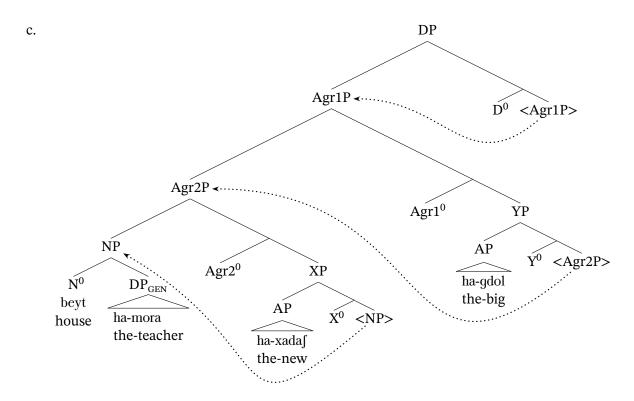
(Hebrew)



(25) a. beyt ha-mora ha-xada∫ ha-gdol house.M the-teacher.F the-new.M the-big.M 'the big new house of the teacher'

(Hebrew)





Benefits. Shlonsky's (2004) analysis purportedly has several of the benefits we should expect:

- Head-Initialness: Roll-up movement terminates at Spec,DP.
- Obligation of Genitive Phrase: The head noun subcategorizes for the genitive phrase.
- Strict Adjacency: Case assignment freezes the genitive phrase in the NP.

Conceptual Issues. Gebregziabher (2013) appeals to conceptual arguments against the cartographic (Cinque 1999) and antisymmetric (Kayne 1994) views of syntax more generally.

- *Unmotivated Movement*: Most if not all of the movements invoked are not independently motivated.
- Unmotivated Categories: Most if not all of the categories invoked are not independently motivated.

Empirical Issues. Gebregziabher (2013) argues that this analysis is not well-suited for Tigrinya, and potentially other languages, on empirical grounds.

- *Too-Strong Ordering Rules*: Adjectives (in Tigrinya) are not as strictly ordered as the analysis implies.
- *Pre-nominal Modifiers*: This analysis derives post-nominal modifiers by design, contrary to the facts about Tigrinya.
- *Complements Only:* This analysis assumes the genitive phrase is always an internal argument of the noun, contrary to facts in other languages.

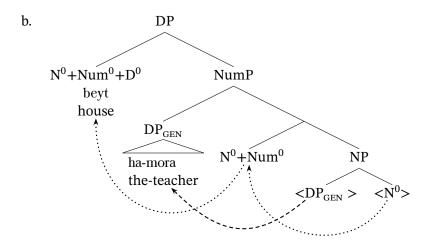
Summary. Given the conceptual issues of a roll-up movement derivations and the inability to extrapolate to Tigrinya and other languages, an alternative should be pursued.

4.2 Standard Head-Movement: Ritter 1991

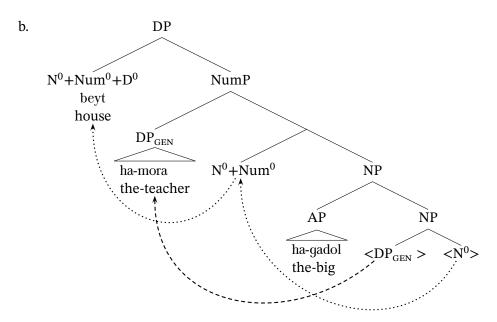
The Proposal. This analysis is embedded within a more general proposal in which lexical heads undergo syntactic movement to adjoin with higher functional heads $(N^0\text{-to-}D^0\text{ movement})$.

In CSNs head-movement moves the head N^0 into a higher functional head and movement of the genitive phrase ensures adjacency.

(26) a. beyt ha-mora house the-teacher 'the teacher's house'



(27) a. beyt ha-mora ha-gadol house the-teacher the-big 'the teacher's big house'



Benefits. Ritter's (1991) analysis purportedly has several of the benefits we should expect:

- Head-Initialness: Head-movement terminates at D⁰ and genitive movement at Spec,NumP.
- Asydeticity: The attracting D^0 assigns genitive Case.
- *Obligation of Genitive Phrase:* Complementation implies selection.
- Strict Adjacency: Raising of the genitive phrase places it before any modifiers.
- Complementarity of D^0 : Head-movement precludes other elements in D^0 .

Conceptual Issues. Gebregziabher (2013) applies the Minimalist critique to the standard head-movement analysis.

- Extension Condition: Standard head-movement is a conceptual oddity as it does not extend the phrase-marker.
- *Unmotivated Movement:* Head-movement as an operation distinct from other types of displacement is not a conceptual necessity.

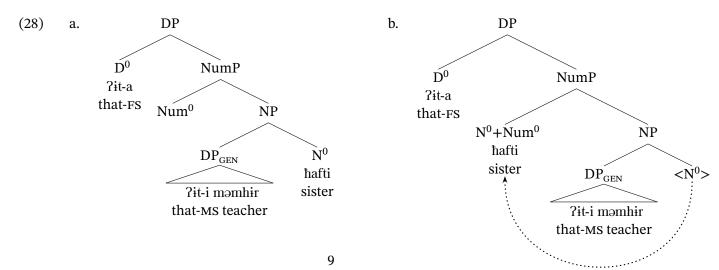
Empirical Issues. Gebregziabher (2013) cites empirical arguments raised by Shlonsky (2004) against the standard head-movement analysis.

- Too-Weak Ordering Rules: There are no mechanisms that ensure the correct order of adjectives.
- *Pre-nominal Modifiers*: This analysis derives post-nominal modifiers by design, contrary to the facts about Tigrinya.
- *Complements Only:* This analysis assumes the genitive phrase is always and internal argument of the noun, contrary to facts in other languages.

Summary. Given the conceptual issues of standard head-movement derivations and the ancillary assumptions required to extrapolate to other languages, an alternative should be pursued.

5 A Minimalist Account of Tigrinya Construct State Nominals

Gebregziabher (2013) provides an analysis of Tigrinya CSNs that overcomes the shortcomings of the analyses discussed above. The primary idea is that head-movement terminates lower in the structure.

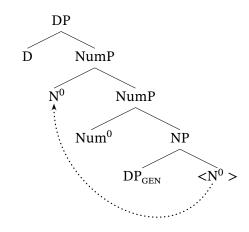


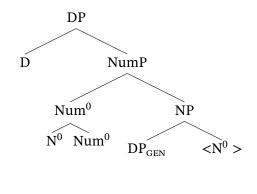
Head-to-Spec Movement (Matushansky 2006). The analysis aims to overcome the conceptual and theoretical issues by adopting an alternative conception of head-movement.

Head movement involves syntactic movement of a head to the Specifier of phrase. Heads that are adjacent in the syntax, via selection or movement, can be morphologically merged post-syntactically.

(29) a. Syntactic Head-to-Spec Movement

b. *M-Merger*





Agree (Chomsky 2001). Heads carry features that may gain their value through an operation AGREE, which in turn may require movement.

- (30) AGREE A head X^0 with an unvalued feature [F:] probes its c-command domain for a goal Y^0 /YP with a valued feature [F: val] and values any unvalued features F of both X^0 and Y^0 /YP.
- (31) Weak Feature-Valuing Constraint A weak feature [F:] on some X^0/XP can AGREE with some Y^0 if X^0/XP is c-commanded by Y^0 .
- (32) Strong Feature-Valuing Constraint A strong feature [*F:] on some X^0/XP can AGREE with some Y^0 only if X^0/XP is within the phrase projected by Y^0 .

5.1 The Common Properties

Gebregziabher (2013) demonstrates how the proposed analysis accounts for the shared properties of Hebrew and Tigrinya Construct State Nnominals.

(33) beyt ha-mora (34) hafti ?it-i məmhir house the-teacher sister that-MS teacher 'the teacher's house' (Hebrew) 'the teacher's sister' (Tigrinya)

Head-Initialness. The head noun precedes the genitive.

Head-movement terminates at (Spec,)NumP and the genitive phrase is in-situ.

Obligation of Genitive Phrase. The genitive phrase is obligatory in the construct state.

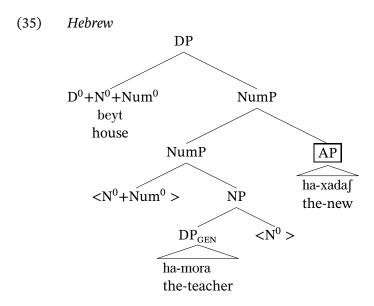
The head is subcategorized with a c-selectional requirement for the genitive phrase.

Asyndeticity. The relation between the head noun and genitive is not signaled by adpositions.

Tigrinya [naj] and Hebrew [ʃel] serve roles (predication, Case-assignment) that are not needed in the Construct State.

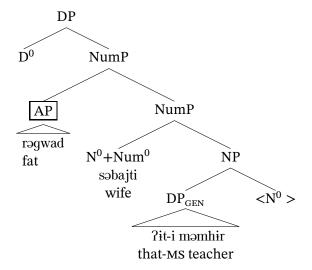
Strict Adjacency. The head noun and genitive phrase are necessarily adjacent.

Hebrew. The post-nominal modifiers of Hebrew are right-adjoined on the nominal spine (cf. Kayne 1994, Cinque 1999, Shlonsky 2004):



Tigrinya. The pre-nominal modifiers of Tigrinya are left-adjoined (at NumP or higher):

(36) Tigrinya



Given these alignments, movement of the head noun will preserve adjacency with the genitive phrase and deliver the order of modifiers.

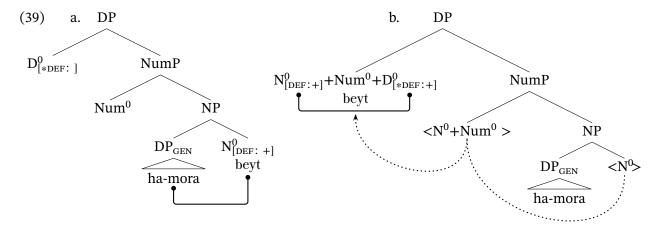
5.2 Definiteness Spreading

One of the differences between Hebrew and Tigrinya is the phenomenon of Definiteness Spreading that is found only in Hebrew.

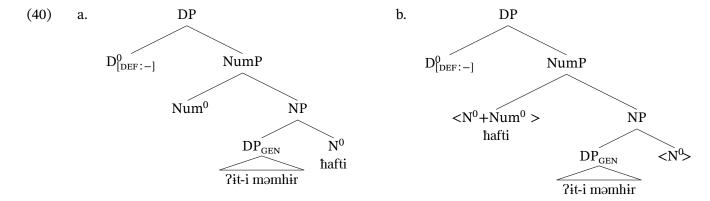
(37) beyt ha-mora (38) hafti ?it-i məmhir house the-teacher sister that-MS teacher a. 'the house of the teacher' a. 'a sister of the teacher' b. *'a house of the teacher' (Hebrew) b. *'the sister of the teacher' (Tigrinya)

Gebregziabher (2013:5.3.2.1) proposes that the difference can be reduced to the content of D in each language and, consequently, different derivations.

Hebrew Definiteness Spreading. In Hebrew definiteness spreading CSNs, there is an unvalued feature [* DEF :] on D^0 . This feature is valued indirectly by the genitive phrase via the obligatory movement of N^0 .



Tigrinya Definiteness Containment. Tigrinya lacks a D^0 with an unvalued definteness feature, meaning D^0 in Tigrinya CSNs must have the feature [DEF: \pm], which is exponed with free morphemes.



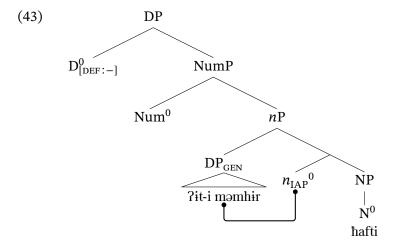
5.3 (In)alienability

Another differences between Hebrew and Tigrinya is the inalienabiltiy restriction found on Tigrinya CSNs, but not on Hebrew CSNs.

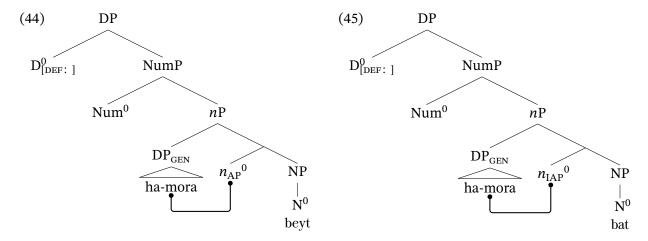
(41) beyt/bat ha-mora (42) hafti ?it-i məmhir house/daughter the-teacher sister that-MS teacher 'the house/daughter of the teacher' (Hebrew) (Tigrinya)

Gebregziabher (2013:5.4) proposes that the difference can be reduced to the content of a Θ -role assigning n^0 in each language and, consequently, different derivations.

Tigrinya Inalienability. Tigrinya has a single argument introducing n^0 for nominalizations that essentially assigns an IA-Pssr Θ-Role. Alienable possession is achieved with [naj].



Hebrew (In)alienability. Hebrew has separate n^0 s for nominalizations: one that assigns an IA-Pssr role and one that assigns an AL-Pssr role.



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