

Contact-induced change in gender systems of northern Bantu languages

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Outline

- Bantu gender and gender changes in the northern Bantu borderlands
- Survey of Bantu languages
- Survey of non-Bantu contact languages
- Discussion and conclusions

Introduction: Change in Bantu grammatical gender

- Bantu elaborate gender systems are well known and can be reconstructed for Proto-Bantu
 - Bantu gender profile: 8+ nominal and agreement classes, SG-PL pairings, human-nonhuman contrast
- Several Bantu languages of the northern Bantu borderlands exhibit heavily restructured and/or eroded systems of gender marking

Hypotheses

- restructuring in the northeastern Ituri rainforest is the result of a Pygmy substrate interference (Schebesta 1952; Vorbichler 1963)
- restructuring is the result of contact influence from other neighboring non-Bantu languages



Introduction: Agreement (left) vs. noun marking (right) in Proto-Bantu



Gender systems in the northern rainforest: Bantu

- Two studies: Di Garbo & Verkerk (2021, revised) and Verkerk & Di Garbo (2021, under revision)
 - we investigate gender systems in a sample of 179 northwestern Bantu languages focusing on patterns of gender agreement (syntactic vs. semantic/animacy-based) and their socio-geographic correlates
- ✤ 4 types:
 - only syntactic agreement (Type 1, 122 languages)
 - both syntactic and animacy-based agreement (Type 2, 40 languages)
 - animacy-based gender (Type 3, 11 languages)
 - no agreement (Type 4, 6 languages)

Type 1: Only syntactic agreement - Bakole (A231, Asobo 1989: 89)

(a) Subject-verb agreement with an animate Class 1 noun

mw-ánà à mádà CL1-child CL1 ate

'The child ate'.

(b) Subject-verb agreement with an animate Class 3

mù-ròŋgi mú mádà cl3-sheep Cl3 ate

'The sheep ate'.

Type 2: Syntactic & ani-based agreement - Lika (D201, de Wit 2015: 298-299)

(a) Animate singular

mu-kó \dot{a} -pung- \dot{a} ndi ká-inzinzíny- \dot{a} 1-woman 3SG.AN^P-start-FV^P P₃ 9b-REFL-complain-FV 'The woman started to complain'

b Animate plural

60mbǔ 66-pik-og-0 6a-ndábu na 6e-nvunvú 2-bird 3PL.AN-build-PL-FV 2-9.house with 2+9:9a-moss 'Birds build nests with moss.'²⁰

(c) Inanimate singular

kpáká kakí Ø-ká-bák-ag- ι -g υ ndi 9.trap 3SG.POSS 3SG/PL.INAN-NEG-sprout-PLUR-FV-NEG P₃ 'His trap could not release.'

(d) Inanimate plural

6a-kpáká kakí Ø-ká-6ák-ag-1-g^{*}v ndi 2-9.trap 3SG-POSS 3SG/PL.INAN-NEG-sprout-PL-FV-NEG P₃ 'His traps could not release.'

Type 2: Syntactic & ani-based agreement - Pagibete (C401, Reeder 1998: 54ff, 58)

- All animate nouns obligatorily take agreement in gender 1/2, i.e., they are semantically assigned to gender 1/2.
- Their nominal forms do not match class 1/2, which indicates that, before
 `moving to' gender 1/2, they used to be lexically assigned to different genders.

 babá / ba-babá 'father/fathers'
 - mbiké / ba-biká 'visitor/visitors'
 - ➤ e-bogó / be-bogó 'wild ducks/ wild ducks'
- Inanimate nouns trigger syntactic agreement in their respective lexicallyspecified genders

Type 3: Animacy-based gender - Kako (A93, Ernst 1992: 36)

- (a) bè-ŋgo ba-ka tì dɔkɔ na.
 AN.PL-cochon AN.PL-DEM NEG grandir NEG
 'Ces cochons ne sont pas grands.' ('These pigs are not big', own translation)
- (b) mè-kande ma-ka ma lòlò.
 INAN.PL-habits INAN.PL-DEM déjà brûlé
 'Ces habits sont brûlé.' ('These clothes are burnt', own translation)

<u>Type 4: No gender - Polri (A92, Wega 2012: 129)</u>

- mù-ùtì j^wô "tout l'homme" Sg homme tout 6ò-ùtì 6è-j^wô "tous les hommes" Pl homme pl tout $b\hat{\epsilon} - n\hat{\delta}n$ $b\hat{\epsilon} - j^{w}\hat{\delta}$ "tous les oiseaux" Pl oiseau Pl tous $6\hat{\epsilon} - nd_3\hat{\epsilon}6\hat{\delta} - j^{\hat{w}}\hat{\delta}$ "toutes les maisons" Pl maison pl tous

Bantu languages of the northern rainforest: sociogeographic correlates

- Animacy-based agreement is widespread in the larger northwestern Bantu area (attested in some form in 51 languages out of 179)
- Quantitative analyses show that solely animacy-based and fully eroded gender systems (Type 3 and 4) are most likely to be found in languages of wider communication or bordering with Ubangi and Central Sudanic languages*

* We attempted to test the effect of historical contact with pre-Bantu "Pygmy' populations, but the analyses did not yield as robust results, possibly due to poor variable design and general lack of data

Noun classification and animacy in Non-Bantu languages

- Güldemann (in prep.) investigates noun classification in non-Bantu languages of the northern rainforest transition (currently 32 languages from Central Sudanic (7), Gbayaic (7), and Narrow Ubangi (18))
- These languages were coded for the following features:
 - 'behavioral animacy' (= animacy-based differential grammatical marking in nominal morphosyntax, e.g. plural marking, choice of possessive linker)
 - ≻ '+/- animate contrast' on pronouns
 - > '+/- animate contrast' on agreement targets beyond pronouns
 - > agreement of the NC type with '+/- human contrast'

Behavioral animacy: Lese (Mangbutu-Efe, Central Sudanic)

◆ Goal postposition -ni with inanimates vs. -bo for animates (Vorbichler 1965: 90-1)

a. mεsà-ni
 table-IA.DIR
 to/away from the table

- b. àfò-**ba**-ni father-at-IA.DIR to/away from father
- c. *àfa-bɔ* father-A.DIR to my father
- d. <u>u</u>ra-bɔ animal-A.DIR to the animal

(Vorbichler 1965: 90-1)

Behavioral animacy and +/- animate pronominal gender: Mono (Bandaic, Narrow Ubangi)

- various types of behavioral animacy: e.g plural marking (by prefix à-/àlà-) is restricted to animate nouns or their quality attributes (Kamanda Kola 2003: 180, 247-259, 281-2, 288-9)
- 3rd-person pronouns distinguish animacy and number (Kamanda Kola 2003: 269-79, 443-7)



> attested in a similar fashion in other Bandaic languages

+/- Animate contrast on pronouns: Gbayaic

| | | 'Buli (Southern) | | | (4) | Gbeya (Western, Bokoto-Gbeya) | |
|-----|----|---------------------------------------|---|-----------------------------------|------|--|---|
| e | a. | ?à | 3SG.A | <i>gàsá</i> be.big | a. | <i>dŏŋ-?ằ</i> back-3SG.A | [ɗòŋấੈă] |
| b | Э. | yò I | S/ne is big. 3SG.IA It is big. (M | gàsá be.big oñino 1995: 98) | b. | his/her back ~ behi <i>dŏŋ-à</i> back-3SG.IA its back ~ after it (N | nd him/her [đồŋấੈầ] /Ioñino 1995: |
| (3) | | Yaayuwee (Western, Northwest) | | | 169) | | |
| a | a. | ?ám zòká 1SG see 3 I have seen | ?à 3SG.A him/her. | | | | |
| b | Э. | ?ám zòkáà 1SG see:3 I have seen | SG.IA it. (Moñino | 1995: 65) | | | |

Niger-Congo type gender AND animacy: Mbaic

| Language | Ndunga | Mba | Dongo | Ma | | |
|--|--------|----------|----------|----------|--|--|
| Niger-Congo type noun inflection | Yes | Yes | Yes | Yes | | |
| Niger-Congo type gender | ±human | ±human | ±animate | - | | |
| Pronominal gender | ±human | ±animate | ±animate | ±animate | | |
| Note: frame = typical for Niger-Congo, shading = untypical for Niger-Congo | | | | | | |

Table 1: Overview of noun classification in Mbaic

Exceptional co-occurrence of a) Niger-Congo gender system with original +/- human contrast and b) areally typical pronominal gender system with original +/- animate contrast

The Pygmy forager languages

Four basic types:

- 1. No sign of animate gender, limited behavioral animacy: only Non-Bantu, notably Efe (Mangbutu-Efe), Asua (Mangbetu-Asua)
- 2. Typical Bantu gender system without animate agreement and behavioral animacy: e.g. Bongwe (B303) (Walker 1937)
- 3. Typical Bantu gender system but many non-human animates agree like human nouns: e.g. Gyeli (A801) (Grimm 2015: 128)
- 4. Bipartite animacy-based gender system: e.g., in Bantu Kango aka "Mbuti" (D311) (Vorbichler 1968: 412-5)

All situations are inconspicuous regarding closest Non-Pygmy variety!!!

Discussion

The northern rainforest-savannah transition in Central Africa shows a clear bias toward animacy-based noun classification, recurrently conveyed by a gender system restricted to pronominal targets. This is:

- certainly innovative in Bantu
- not deeply entrenched in Central Sudanic
- widespread in Ubangi and Gbayaic, with some possible reconstructions
- variable in Pygmy varieties aligned with relevant farmer language
- positive evidence for contact interference in Bantu but not clearly
 for a particular Pygmy forager substrate

Back to Bantu

Necessary distinction between two types of gender restructuring that are in principle independent of each other:

- a) semantic reorganization from ±human to ±animacy (possibly, but not necessarily, involves spread of animacy-based agreement)
- b) reduction~erosion of gender inventory

Back to Bantu

| Changes | | | Gender according to | ± animacy |
|---------|-----|--------------|---------------------|------------------------------|
| | | | NO | YES |
| Gender | NO | | Inherited default | Pagibeete, Ngombe, etc. |
| erosion | YES | To Bipartite | Nzadi | Lingala, <u>Beeke</u> , etc. |
| | | Complete | Yansi, Kituba | ?Bodo, Huma, Bokuru |

Table 2: Bantu languages and two types of gender restructuring

+ languages in right table column correlate robustly with areal proximity to Non-Bantu languages with animacy-based noun classification (particularly Gbayaic and Ubangi) where contact-induced restructuring has a robust and recurrent target of change

> semantic shift seems to precede drastic erosion of gender inventory





Back to Bantu

- Radically animacy-based and some completely eroded systems occur in languages that are spoken close to non-Bantu languages with animacy-based nominal classification
- This areal effect can be observed both through large-scale quantitative studies (Verkerk and Di Garbo 2021, under revision) and through the qualitative analyses presented here.
- We plan to study this further, expanding the current sample, and conducting analogous comparative studies beyond the northern rainforest area.

THANK YOU FOR YOUR ATTENTION!

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