#### Wordhood in Ghana-Togo Mountain languages, with a focus on Akebu and Adele

DFG Project HU-Berlin 01.10.2024-30.09.2027

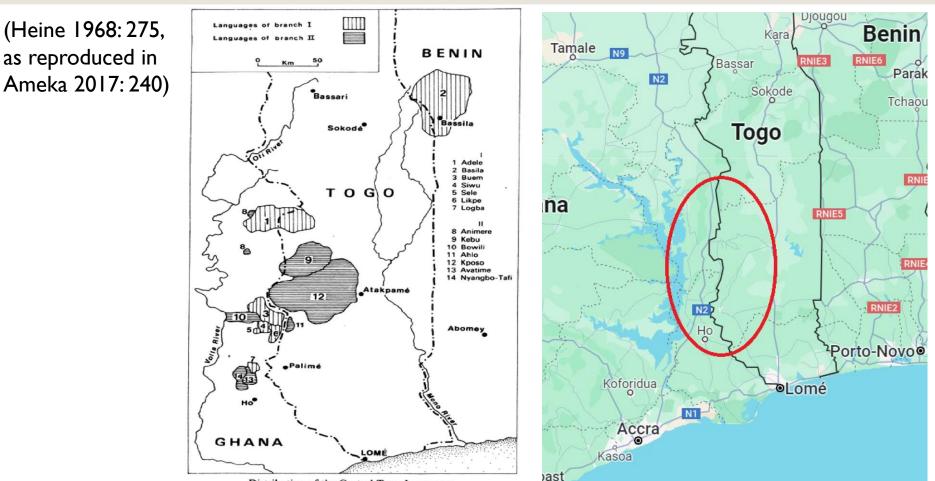
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### Ghana-Togo Mountain languages (aka Togorestsprachen / Togo-remnant languages)



Distribution of the Central Togo Languages (Source: Bernd Heine, Verbreitung und Gliederung der Togorestsprachen Dietrich Reimer Verlag, Berlin, 1968)

#### Ghana-Togo Mountain languages

- Part of the ("New") Kwa language family
- Ka-Togo vs. Na-Togo (Heine 1968)
  - Clear isoglosses
  - ka vs. na roots for `meat'
  - Presumed by Westermann (1927) and later Heine (1968) as a genealogical unity
  - Later presented as two branches of unrelated (maybe even distant) branches of Kwa (Bennett & Sterk 1977; Stewart 1989; Williamson & Blench 2000; Blench 2009)
  - Clear areal unity of genealogically related languages (both Kwa)
  - New arguments for genealogical unity (Kropp Dakubu 2017)

### Ghana-Togo Mountain languages: Ka-Togo

Avatime-Nyangbo Avatime ca. 27,000 ~ gram. (van Putten 2014) Nyangbo-Tafi ca. 11,000 gram. (Essegbey 2019) Nyangbo (Tutrugbu) gram. (Bobuafor 2013) Tafi ca. 4,500 Kebu-Animere Akebu ca. 70,000 own earlier work Animere ?30 ELDP project started Kposo-Ahlo-Bowili Igo (Ahlo) ca.7,500 gram. (Gblem-Poidi 2021) Ikposo ca. 233,500 gram. (Eklo 1988; Soubrier 2013) Tuwuli (Bowili) ca.11,500 gram. (Harley 2005)

#### Ghana-Togo Mountain languages: Na-Togo

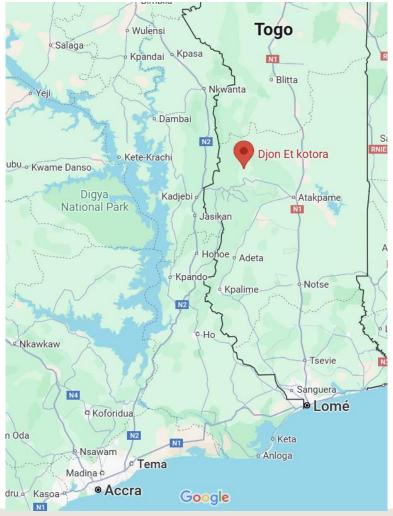
#### Basila-Adele

Adele (Gidire)	ca. 37500	own preliminary work
Anii (Basila)	ca. 59000	~gram. (Morton 2014)
Ikpana (Logba)	ca. <b>7500</b>	gram. (Dorvlo 2008)
Lelemi-Akpafu		
Lelemi (Buem)	ca. 72,000	gram. (Allan 1973)
Siwu (Akpafu-Lolobi)	ca. 72,000	gram. ms. (Ford & Iddah 1973)
Likpe-Santrokofi		
Sekpele (Likpe)	ca. 23,000	gram. (Delalorm 2016)
Selee (Santrokofi)	ca. 11,000	~gram. (Agbetsoamedo 2014a)

Boro [extinct in 19th c.]

### Akebu (< Ka-Togo)

- Several fieldtrips (2012, 2013, 2016, 2019)
- Joint work with Nadezhda Makeeva
  - Also, Dasha Shavarina, Pasha Koval, Nikita Muraviev
- The village of Djon (Akébou prefecture of Togo)
  - Also texts recorded in neighbouring villages of Kotora and Djitrame



#### Akebu

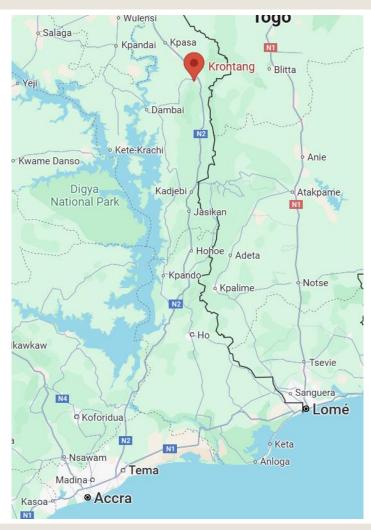
- Extensive elicited data on phonology, grammar and lexicon
- About 4.5 hrs of transcribed texts
- Conducted (and published) research on a number of topics





# Adele (< Na-Togo)

- Pilot fieldtrip (2022)
  - Joint with Natalia Stoynova and Margarita Ivanova
- The village of Krontang (Nkwanta district of Ghana)
  - Also texts recorded in the neighbouring village Kechebi



#### Adele

- Elicited data on phonology, grammar and lexicon
- About I hr of transcribed texts
- Preliminary research on phonology and noun class system





### Ghana-Togo Mountain languages and wordhood

Almost all GTM languages are described to some extent

- Mostly during recent 15-20 year
- No strong established descriptive tradition
  - In particular, no tradition of wordhood

### Ghana-Togo Mountain languages and wordhood

E.g. pre-root verbal morphology

Even for the same language

Ikposo: Eklo (1987: 88-104) vs. Soubrier (2013: 165-214)

Nyangbo (Essegbey 2019: 157)  $a-ny \hat{\varepsilon} = \hat{\varepsilon}$   $a-t\hat{\varepsilon} - \hat{a} - sh\tilde{\varepsilon}$ 

CM1-man=DEF AM-NEG-PROG-leave

'The man is not leaving.'

Anii (Morton 2014: 88) n tí kìdé ì-bờrờ 1.sg.subj.grp1 IMPF watch CL.W-elephant 'I watch elephants.'

### Ghana-Togo Mountain languages and wordhood

- No practical intuition in the process of transcription
  - Strikingly contrasts with fieldwork experience with completely different languages
- Nothing to answer when asked after talks "Why do you use a hyphen, not a space here?" (or vice-versa)
- Addressing other GTM languages is not helpful
  - Allan (1973: 37) for Lelemi (< Na-Togo): word is defined by utterance in isolation, but no further implementation</p>
  - Harley (2005: 58-59) for Tuwuli (< Ka-Togo): a number of criteria of phonological wordhood, but noting that more complex items are phonological words, as well
  - As mentioned, completely different implicit analyses
- Critically influences the analysis of a languages system

E.g. does not allow to publish a description of Akebu verbal morphology

### (Informal) goals of the project

Advancing in description of Akebu and Adele

- Providing an explicit and consistent account for wordhood throughout language systems; first time for any GTM languages
- Comparing results for GTM
  - Akebu and Adele
  - Tentatively, both to other GTM
- Contributing to cross-linguistic studies in wordhood

- Traditional account (in particular in Leipzig Glossing Rules)
  - Morphosyntactic words
  - Phonological words
  - Clitics = morphosyntactic, but not phonological words
- Traditional descriptive approach
  - Linguists' and speakers' intuition
  - Himmelmann (2006) defends it explicitly

- Actively discussed during the last decades and upto recently
  - Selkirk 1996; Haspelmath 2011, 2023; van Gijn & Zúñiga 2014; Dixon & Aikhenvald 2003; Aikhenvald et al. 2020; Good 2016; Zingler 2020, 2022; Tallman 2020, 2024...
- New concepts
  - For mismaches between phonological and morphosyntactic wordhood, such as weak words and anti-clitics (Zingler 2022)
  - In the domain of morphosyntactic wordhood, such as bound and free constructs (Haspelmath 2011)
  - In the domain of phonological wordhood, such as prosodic clitics (Selkirk 1996), featural foot (Green 2013; Vydrin 2020)

Compound words are discussed separately

- Widely for compounds of the same part of speech (cf. summary in Lieber & Štekauer 2009)
- Less actively for X-to-verb incorporation (cf. summary in Olthof 2020)
- Rather marginally for attribute-to-noun incorporation (cf. Dahl 2004; Rießler 2016)
- Analysis in the same framework as continuum between grammatical markers that are independent words and affixes?

- Theoretical concepts and findings are far ahead from analysis of data of underdescribed languages
- But "positive" studies defining a word in a given language exist (cf. Terraza & Baito 2014 on Wichi < Matacoan, South America)
- Methodologically, bottom-up approach
  - Wordhood in Akebu & wordhood in Adele
  - Wordhood in GTM
  - Wordhood in Kwa / West African language area
  - Wordhood cross-linguistically

- Distinguishing between different types of units
- But also distinguishing between different types of morpheme boundaries
- Maybe even more important (at least practically)
- To some extent I follow the logic of Tallman's (2019; 2024) approach
  - But I focus less on constituent templates (cf. also Good 2016)
  - And I try less to make my approach universalist

# Hypothesis of the project

- (i) In a given language, there exist phonological and morphosyntactic features that correlate with each other and allow to distinguish both between a limited number of possible morphological units and a limited number of possible morpheme boundaries
- In other words, I hypothesize of some correlation between phonological and morphosyntactic constitutent
- Although I say "wordhood", I realize that there can be several levels of such morphosyntactic / phonological units
  - It is not so important which level exactly should be called a word
  - But still this choice is necessary for practical purposes

## Hypothesis of the project

- If (i) is correct for Akebu and Adele (and thus tentatively for GTM), it will make it possible to provide an innovative approach to their grammar
- If (i) is not correct for Akebu and/or Adele, this will be a relevant negative result
- If (i) is correct for given specific languages, this makes it productive to test it for further languages and linguistic families
- If (i) is not correct for given specific languages, it is automatically not correct universally

#### Structures to be tested

- Grammatical markers
- Compounds of all types
- Phonologically complex structures with no morpheme boundaries
  - (1) Adele
  - kūlókūlōkòkò
  - 'turkey'

#### Research questions of the project

- RQI: Is there consistent evidence of phonological wordhood in GTM? Is there a correlation or an implicational hierarchy between features evidencing phonological wordhood in GTM?
- RQ2: Is there consistent evidence of morphosyntactic wordhood in GTM? Is there an implicational hierarchy between features evidencing morphosyntactic wordhood in GTM?
- RQ3: Is there a correlation between phonological and morphosyntactic units in GTM? Are there criteria for distinguishing between morphological units simultaneously in phonology and in grammar?

### Research questions of the project

#### In other words,

- Looking for phonological constituents
- Looking for morphosyntactic constituents
- Looking if they correlate
- Rather traditional

- Vowel harmony
  - Obligatory
  - (2) Adele
  - a.dì-kwodì-bónòb.dì-kwodì-túnúCL3-houseCL3.POSS-frontCL3-houseCL3.POSS-door'the front of the house''the door of the house''the door of the house'

Optional

(3) Akebu

tiè-yā` lá ò-tù-yā` ~ tiè-yā` ló ò-tù-yā` woman-CL1 POSS CL5-thing-CL5 woman-CL1 POSS CL5-thing-CL5 'the woman's things'

#### Vowel harmony

Usually absent in compounds
 (4) Akebu

`-zɔ̄ɔ̄-tú-ʈə́`

CL3-axe-handle-CL3

'axe-handle'

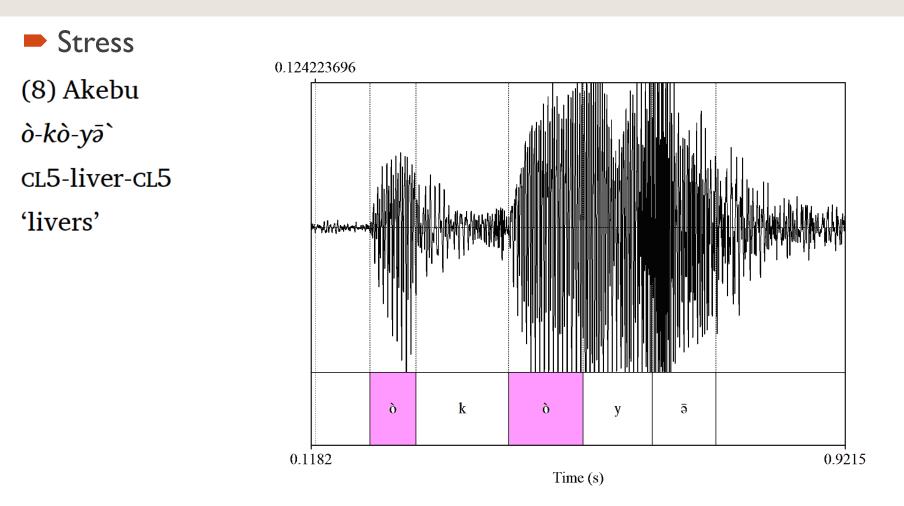
But there are exceptions(5) Akebu

a.	tìyí (<	*tà	yî)	Ь.	tà	tūù
	twenry	ten	two		ten	five
	'twenty'				'fifty'	

#### Tonal processes

Tonal alternations (tonal sandhi, absence of own lexical tone)
 (6) Akebu

- a. `-gú-tə´ b. `-gù-tə̄` CL3-bierd-CL3 CL3-nest-CL3
  External tonal processes (downdrifts, downsteps)
  (7) Adele
- a. $n\acute{a}-w\acute{i}$  $t\acute{d}i\acute{g}\acute{u}$ b. $n\acute{a}-w\acute{i}=w\acute{o}$ 1sg.pfv-seemirror1sg.pfv-see = cl5.0'I saw the mirror.''I saw it.'



Fusion and phonological reduction

(9) Akebu

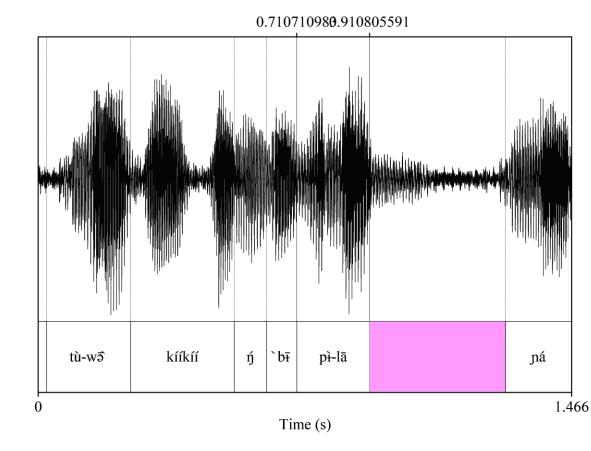
`-zà**lī-tə`** [zə**lə**]

cl3-egg-cl3

(10) Akebu *nìmì-wá [nìmíǧ́] needle-cL4* 

Pauses

(11) Akebu  $t\hat{u}$ - $w\bar{a}$ `  $k\hat{l}\hat{k}\hat{l}\hat{l}$   $\hat{\eta}$ thing-CL4 every CONJ ` $b\bar{t}$   $p\bar{t}$ - $l\bar{a}$  = pa3PL 3PL-PFV = find 'everything they found'



- Clearly no strong correlation of all listed
  - Especially clear for vowel harmony
- Still, possibly at least some correlate
  - Maybe domains of stress and tonal alternations
- Maybe other make a hierarchy
  - Maybe fusion/reduction implies no possible pauses

Functional grammaticalization

(12) Akebu

- a. **ý-yā [ýyā]** 1sg-stand
  - 'I am standing (here).'
- b. *ý-yā* [ýyā ~ né] néé-tī fūé-yô`
  1SG-PROG < stand 1SG.PRS-eat fufu-CL1</li>
  'I am eating fufu (lit. I stand I eat).'

- Inflectional marking
- (13) Akebu
- a. *'nē-ké-tī tūŋtūŋ*1sG.PFV- < go-eat today</li>
  'I have gone to eat today.'
  b. *ŋ-kólú ŋ-tīlí àsāākā*1sG-go<sub>FCT</sub> 1sG-eat<sub>FCT</sub> yesterday

'I went to eat today.'

- Own full phrase structure
- (14) Akebu
- ή-cīī nì-yā` sísìÈȆí sā a. 1sg-know person-cl1 well DEM 'I know this person well.' b. *m*í 1sg.poss person-know-cl1 'my known person' \*mí nì-**cì-sísìÈÈfí**-yā` C. 1sg.poss person-know-well-cl1 exp. 'my well-known person'

Non-specificity and anaphoric islandhood
 (15) = (4) Akebu

- a.  $k\hat{i}$ - $s\bar{j}\bar{j}$ - $k\hat{j}$ ` b. `- $d\hat{u}$ - $t\hat{j}$ ` CL6-axe-CL6 CL3-handle-CL3 'axe' 'handle'
- c. `-*zīī-tú-ţi*` CL3-axe-handle-CL3 'axe-handle'

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- Restricted use
- (16) Akebu
- tù-wā` wì-là b. sā ţòòţòò a. thing-bad-CL4 thing-CL4 CL4-COP bad DEM 'This thing is bad.' 'bad thing' tù-ŋɛ́ŋ-wə̄` \*tù-wā` ŋέή d. sā wì-là c. thing-new-CL4 thing-CL4 CL4-COP DEM new exp. 'This thing is new.' 'new thing'

- Restricted use (17) Adele
- a. *gè-kù-kùŋ CL6-wash-place 'bathroom'*
- b. gè-dró-**kùŋ** CL6-sleep-place 'sleeping place'
- c. *gè-dì-kùŋ CL6-eat-place 'eating place'*

Linear insertion of syntactically independent material

Hesitation; vocatives; expletives?

(18) Akebu

- a. *cíkèé-yá` lá kì-fūēē-kā`* dog-CL1 POSS CL6-paper-CL6 'the dog's document'
- b. cíkèé-yá` lá àmàmà ... kì-fūēē-kā`
   dog-CL1 POSS HES CL6-paper-CL6
   'the dog's hmm document'

- Mostly less universal than those for phonological wordhood
  - Applicable only to a limited number of constructions
- Still, possibly at least some correlate
  - Maybe own phrase structure and anaphoric islandhood
- Maybe other make a hierarchy

#### Phonological and morphosyntactic wordhood

#### Clearly, there is some correlation

- Certain constructions tend to feature evidence either for or against both phonological and morphosyntactic wordhood
- Some criteria are in fact somewhat in between
  - Pauses and hesitation look similar
  - Phonological reduction is well-known to accompany functional grammaticalization

#### Phonological and morphosyntactic wordhood

- If enough phonological and morphosyntactic criteria correlate for Akebu / Adele, these is language-specific wordhood criteria
- If yes and language-specific wordhood criteria of Akebu and Adele are rather similar, these are tentative wordhood criteria of GTM in general
- If yes, but language-specific criteria are completely different, then language-specific evidence for wordhood is a very instable parameter

### What is clear from the very beginning

- There is no correlation between all mentioned criteria
- Especially, vowel harmony
  - Only leftward in Adele, marginally rightward in Akebu
  - But some items on the right of the stem have evidence against wordhood
  - In Akebu, there are harmonizing morphemes left from the stem
  - Which happen to be separated by pauses and/or hesitations
  - Not relevant for complex words
  - Still, the domain of vowel harmony cannot be just ignored

#### What is clear from the very beginning

- Some criteria predictably tend to correlate
- Noun class suffixes
  - Exhibit tonal alternation, fusion and phonological reduction
  - Follow incorporated atteributes limited in morphosyntactic wordhood

#### Progressive constructions

- Functional grammaticalization and optional fusion
- Associated motion markers
  - Own inflection and vowel harmony

#### What I have already done

Compiled a list of Akebu constructions to be tested

- Almost all grammatical and derivational markers
- All complex constructions
- More than 20
- Also compiled a list of Akebu constructions I assume to be clear enough
  - Some clear markers (such noun class prefixes)
  - Some main syntactic constructions with full phrases (such as V O)
  - Less than 10

#### What I have already done

- Started checking some details in Akebu
  - In particular checked once more that tonal behavior of noun class suffixes is the same with complex structures as with simple nouns
- (19) Akebu
- a. `-dú-tá`
  b. `-zōō-tú-tá`
  c. `-dú-tí-tá`
  CL3-handle-CL3
  CL3-axe-handle-CL3
  CL3-handle-black-CL3
  'a handle'
  'a handle'
  'a black handle'

#### What I have already done

Analyzing data on some markers in Akebu

In particular, preliminary generalization on pauses and hesitation with prepositions

A constituent with some verbs, not with their own complements
 (20) Akebu

'nāà-tàmťý-síčénímīàmàmàtù-púỳpùà-wā`1sg.prosp-do\_once\_more1sg.ADHAB-turnwithhmmthing-other-CL4'I am going to address you again with hmm something else.'

(21) Akebu

lā-fài)mī...à-cứmá-yá3.pFV-get\_tiredwithCL6-work-CL6

'He got tired of work.'

(22) Akebu

 $t\hat{u}$ - $w\hat{a}$ ` $w\hat{a}$ - $l\bar{a}$ - $t\hat{a}$ ... $m\bar{\imath}$  $n\bar{u}_{l}t\hat{u}$ - $w\hat{a}$ `thing-other-CL4CL4-3.PFV-fallwithweight-CL4'The thing fell with all its weight.'

#### What my immediate plans are

- Starting with Akebu
- Analysis of available elicited data on constructions to be tested
- Going through available texts checking pauses, hesitation marker, vocative and possibly expletive insertions, at the same time checking looking for relevant morphosyntactic examples
- Designing a study of stress; checking if data are enough
- Designing (quasi-)experiments on acceptability of inserting pauses, hesitation markers and vocatives between items of different types

# **THANK YOU!**



Comments and suggestions very welcome!

