Two grammars of A'ingae glottalization

Maksymilian Dąbkowski November 21, 2022

UC Berkeley QP Fest 2022

abstract

language: A'ingae, or Cofán, an Amazonian isolate, 150 639-3: con

inner domain: glottal stops are a prosodic feature

- (i) trigger stress assignment
- (ii) deleted along with stress

outer domain: glottal stops are regular consonants

- (i) no effect on stress
- (ii) unaffected by stress deletion

stress deletion: triggered by idiosyncratic morphemes

implications: need to combine phonological effects specific to

- (i) domains, as in Stratal OT (e.g. Bermúdez-Otero, 1999)
- (ii) morphemes, as in Cophonology Theory (e.g. Orgun, 1996)

A'ingae (or Cofán): geography

Amazonian isolate, 150 639-3: con

spoken by ca. 1,500 Cofán people in

- · Sucumbíos, northeast Ecuador
- · Putumayo, southern Colombia

A'ingae (or Cofán): geography

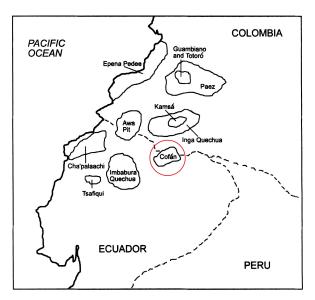


figure 1: indigenous languages of southern Colombia and northern Ecuador (Curnow and Liddicoat, 1998)

A'ingae (or Cofán): sociocultural status

endangered and highly underdocumented under economic, ecological, and political pressures uniformly positive language attitudes (Dąbkowski, 2021) data

- · collected by author
- · in 2021-2022
- · with two consultants from Dureno, Sucumbíos, Ecuador

consultants



Jorge Mendúa



Shinjen Aguinda

glottal stop: the basics

- (1) ? AS CONTRASTIVE IN ROOTS
 - a. **i**k^ha break.INTR

- b. **i7**k^ha break.tr
- (2) ? AS CONTRASTIVE IN FUNCTIONAL MORPHEMES
 - a. **tsá** =ma ANA =ACC

b. **tsá** -**?**ma ANA -FRST

morphological structure of the A'ingae verb

heavily agglutinating, suffixing language

two morphophonological domains, or strata

- · inner domain: root, voice, aspect, associated motion
- · outer domain: number, reality, polarity, subject person, etc.
- (3) STRATAL ORGANIZATION OF THE A'INGAE VERB

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[kof\acute{e} - k^ho -?he -^ngi ] -?fa -ja -^mbi =ts\acute{t} play -RCPR -IPFV -PROX -PL -IRR -NEG =3
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"they_{3,PL} will_{IRR} not_{NEG} come_{PROX} to be_{IPFV} playing with each other_{RCPR}"

root categories

- (4) STRESSLESS ROOTS
 - a. / atapa / [a**tá**pa] breed

b. / atapa -hi / [atapá -hi] breed -prcu

- (5) STRESSED ROOTS
 - a. / áfase / [áfase] offend

b. / áfase -hi / [áfase -hi] offend -prcu

- (6) GLOTTALIZED ROOTS
 - a. / ák^he?pa / [ák^he?pa] be shy

b. / ák^he?pa -hi / [ák^he?pa -hi] be shy -PRCL

stress and glottalization in suffixed verbs

	lexical stress no lexical stress			
		<i>atapa</i> breed	<i>áfase</i> offend	ák ^h e ? pa forget
inner regular	-hi PRCL	ata <mark>pá</mark> hi	á fasehi	ák ^h e <mark>7</mark> pahi
inner preglottalized	- ? he IPFV	a <mark>tá</mark> pa ? he	a fá se <mark>7</mark> he	a <mark>k^hé</mark> pa 7 he
inner stress-deleting	-k ^h o RCPR	ata pá k ^h o	afa sé k ^h o	ak ^h epák ^h o
outer regular	-ja IRR	ata pá ja	<mark>á</mark> faseja	ák ^h e ? paja
outer preglottalized	- ? fa PL	ata pá? fa	<mark>á</mark> fase <mark>7</mark> fa	ák ^h e ? pa?fa
outer stress-deleting	-k ^h a IMP	ata pá k ^h a	afa sé k ^h a	ak ^h e <mark>?pák^ha</mark>

blue: stress

red: glottal stop

central generalization

central generalization:

stress and glottal stops either interact or they don't

inner domain: stress and glottal stops do interact

- (i) glottal stops trigger stress assignment
- (ii) stress deletion deletes glottal stops

outer domain: stress and glottal stops do not interact

- (i) glottal stops do not affect stress
- (ii) stress deletion ignores glottal stops

main proposal

(7) INNER DOMAIN: ? IS A FEATURE OF THE FOOT

(8) OUTER DOMAIN: ? IS A REGULAR SEGMENT

stress assignment in the two domains

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(9) INNER DOMAIN: 2 AT THE RIGHT EDGE OF THE FOOT
     . . . ?. . (\times . ?). a ta pa he a tá pa he
     breed IPFV -> breed IPFV
(10) OUTER DOMAIN: ? AS A REGULAR CONSONANT
     . . . . . . . . (× .)
     a ta pa ja a ta pá ja
     breed IRR \longrightarrow breed IRR
     . . . . . . . . . (× . )
     a ta pa ?fa a ta pá ?fa
     breed PI \longrightarrow breed PI
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stress deletion in the two domains

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(11) INNER DOMAIN: ? AS A FEATURE OF THE FOOT

(x \cdot ?) \cdot \cdot \cdot \cdot (x \cdot )
\stackrel{\acute{a}}{a} k^h e pa k^h o \qquad a k^h e p\acute{a} k^h o
forget RCPR \longrightarrow forget RCPR

(12) OUTER DOMAIN: ? AS A REGULAR CONSONANT

(x \cdot ) \cdot \cdot \cdot (x \cdot )
\stackrel{\acute{a}}{a} k^h e ? pa k^h a \qquad a k^h e ? p\acute{a} k^h a
forget IMP \longrightarrow forget IMP
```

conclusion

inner domain: glottal stops are a prosodic feature

outer domain: glottal stops are regular consonants

stress deletion: triggered by idiosyncratic morphemes

- (i) inner stress deletion targets?
- (ii) outer stress deletion retains?

implications: need to combine phonological effects specific to

- (i) domains, as in Stratal OT (e.g. Bermúdez-Otero, 1999)
- (ii) morphemes, as in Cophonology Theory (e.g. Orgun, 1996)

full paper: a case for Cophonologies by Phase (Sande et al., 2020)

thank you!

my heartfelt thanks to my Cofán collaborators who have welcomed me to their community and shared their language with me. Thanks especially to Jorge mendua, Shen Aguinda, Hugo Lucitante, Leidy Quenamá, and Raúl Quieta for the kindness and generosity they treated me with.

I would also like to thank Hannah Sande, Peter Jenks, Ricardo Bermúdez-Otero, Larry Hyman, Natalie Weber, Lev michael, Scott AnderBois, myriam Lapierre, Katie Russell, Zachary O'Hagan, John Starr, Sam Liff, Wilson Silva, Uriel Cohen Priva, Gašper Beguš, Roman Feiman, Chelsea Sanker, Donca Steriade, Adam Albright, Kalinda Pride, Natural Language and Linguistic Theory reviewers and editors, and the audiences at CILLA IX, WCCFL 38, WCCFL 39, 28mfm, Amazônicas VIII, Zoom Phonology, Phorum, SSCircle, and ALDP for helpful discussions and their invaluable feedback.

my research was supported in part by a Royce Fellowship grant for the project "A'ingae language preservation" and an Oswalt Endangered Language Grant for the project "Phonology-syntax interface in A'ingae."

full paper



https://bit.ly/3RmKSUx

references i

- Bermúdez-Otero, Ricardo (1999). "Constraint interaction in language change: Quantity in English and Germanic". PhD thesis. University of Manchester.
- Curnow, Timothy Jowan and Anthony Liddicoat (1998). "The Barbacoan languages of Colombia and Ecuador". In:

 Anthropological Linguistics 40, pp. 384–408.
- Dabkowski, Maksymilian (2021). "A'ingae (Ecuador and Colombia) Language snapshot". In: Language Documentation and Description 20, pp. 1–12. URL: http://www.elpublishing.org/itempage/223.
- Orgun, Cemil Orhan (1996). "Sign-based morphology and phonology with special attention to Optimality Theory".

 PhD thesis. University of California, Berkeley.

references ii



Sande, Hannah, Peter Jenks, and Sharon Inkelas (2020). "Cophonologies by Ph(r)ase". In: *Natural Language & Linguistic Theory*, pp. 1–51.