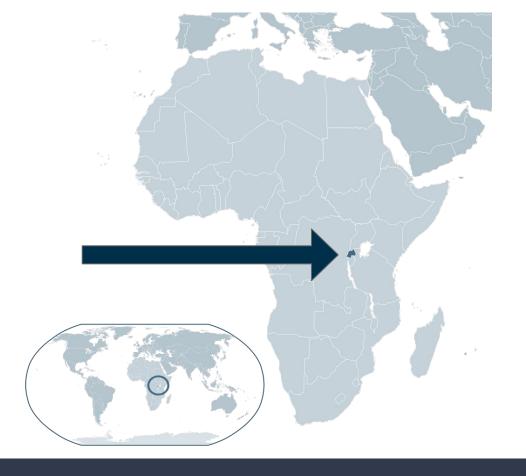
# Polysemy, Distribution, and Variation in Kinyarwanda Verbal *ra-*

Child Language Proseminar

Adam An

- Bantu language
- [icinargwa:nda]"ee-cheen-yar-gwan-da"
- ~ 10 million speakers
- Verbal morphology with many affixes



# Morphological complexity

U-ra-gi-som-a-ho.

# Morphological complexity

you (subject) read incomplete action there

# U-ra-gi-som-a-ho.

2sg.SBJ-PROG-7.OBJ-read-IPFV-16.LOC 'You're reading it there.'

# Morphological complexity

you (subject) read incomplete action there

U-ra-gi-som-a-ho.

2sg.SBJ-PROG-7.OBJ-read-IPFV-16.LOC 'You're reading it there.'

# 

# Five Reasons ra- is Hard to Acquire

ra- has (at least!)
three different
functions.

ra- has (at least!)
three different
functions.

present progressive proposition-finality phonological

# We've already seen the progressive ra-

you (subject) read incomplete action there

# U-ra-gi-som-a-ho.

2sg.SBJ-PROG-7.OBJ-read-APPL-IPFV-16.LOC 'You're reading it there.'

**Proposition** ≈ "facts I'm stating about the world"

**Proposition** ≈ "facts I'm stating about the world"

"You fortunately arrived early."

**Proposition** ≈ "facts I'm stating about the world"

propositional content
corresponds to things in the world

"You fortunately arrived early."

**Proposition** ≈ "facts I'm stating about the world"

propositional content
corresponds to things in the world

not part of the proposition



In Kinyarwanda, the proposition is reflected in word order

Wahageze you arrived

kare early

ku bw'amahirwe. fortunately

In Kinyarwanda, the proposition is reflected in word order

The proposition has to stay together.

Wahageze kare ku bw'amahirwe. you arrived early fortunately

ra- obligatorily appears on a verb that is proposition-final.

Warahageze you arrived

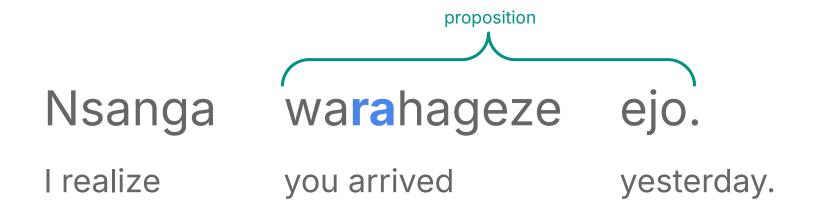
ku bw'amahirwe. fortunately

ra- has (at least!)
three different
functions.

present progressive proposition-finality phonological

### Phonological

In some embedded contexts, a ra- appears that isn't progressive or proposition-final.



### Phonological

I argue that this ra- is phonologically inserted for homophony avoidance: wahageze is "taken". (curious? ask me!)

Kinyarwanda knowers probably aren't computing homophony on the fly - they're probably memorizing a semantically and structurally unmotivated exception.

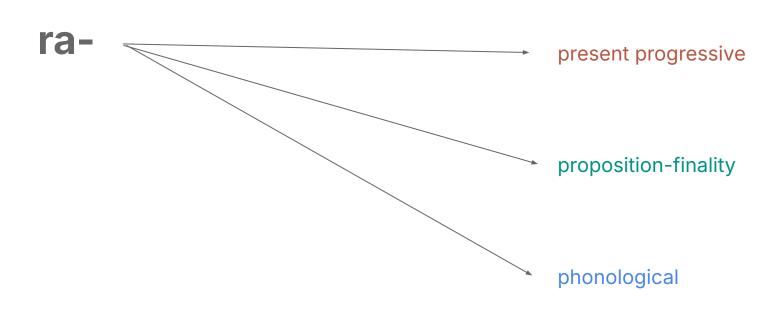
Nsanga warahageze ejo.

I realize you arrived yesterday.

ra- has (at least!)
three different
functions.

present progressive proposition-finality phonological

FORMS FUNCTIONS



The different functions of *ra-* draw on different kinds of linguistic knowledge.

present progressive proposition-finality phonological

### What do you know when you know ra-?

#### **Present progressive**

Only one that corresponds to something in the world

Aspect is a late acquisition (Valian 2006 via Guasti 2016)

#### **Proposition-finality**

Requires **structural knowledge** of a functionally-motivated syntactic boundary

You can't get this right if your structure isn't right

#### **Phonological**

If it's computed on the fly, requires morphophonological knowledge

If it's not computed on the fly, requires memorization of exception unmotivated by same reasons as other two

Many morphosyntactic contexts **forbid** *ra*-.

A present progressive, proposition-final, or phonologically disambiguated verb does not always have ra-.

**Present progressive** 

**Proposition-finality** 

Phonological

Nsanga

Ba**ra**soma ibitabo.

100.

books

rwose.

I realize they read

barasomye.

they are reading

they read

Barasomye

definitely

# Negation forbids ra-

Present progressive		Proposition-finality		Phonological	
Ba <b>ra</b> soma	ibitabo.	Ba <b>ra</b> somye	rwose.	Nsanga	ba <b>ra</b> somye.
they are reading	books	they read	definitely	I realize	they read
Ntibasoma	ibitabo.	Ntibasomye	rwose.	Nsanga	ntibasomye.
they aren't reading	books	they didn't read	definitely	I realize	they didn't read

### Negation forbids ra-

#### **Present progressive**

Ba**ra**soma ibitabo.

they are reading books

Ntibasoma ibitabo.

they aren't reading books

#### **Proposition-finality**

and a whole slew of other environments...

relative clauses
embedded clauses
quotatives
subjunctives
imperatives
infinitives
jussives...

#### **Phonological**

Nsanga barasomye.

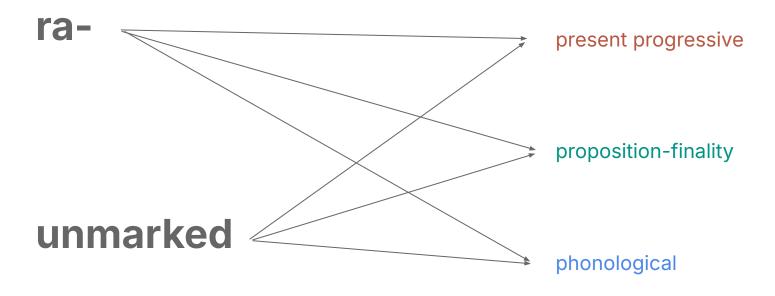
realize they read

anga ntibasomye.

realize they didn't read

A Kinyarwanda-acquiring child does not get to rely on ra- as the sole cue of any of the three functions.

FORMS FUNCTIONS



The unmarked verbs themselves have a host of other functions.

This frequently results in ambiguity.

PROGRESSIVE

NOT PROGRESSIVE

POSITIVE

#### Barasomye ibitabo.

"They're reading books."

#### Basomye ibitabo.

"They read books."

In positive sentences, *ra*-disambiguates present progressive from other aspects.

PROGRESSIVE

NOT PROGRESSIVE

POSITIVE

Barasoma ibitabo.

"They are reading books."

Basoma ibitabo.

"They read books."

But with *ra-* forbidden in negation, there's nothing to disambiguate these two.

NEGATIVE

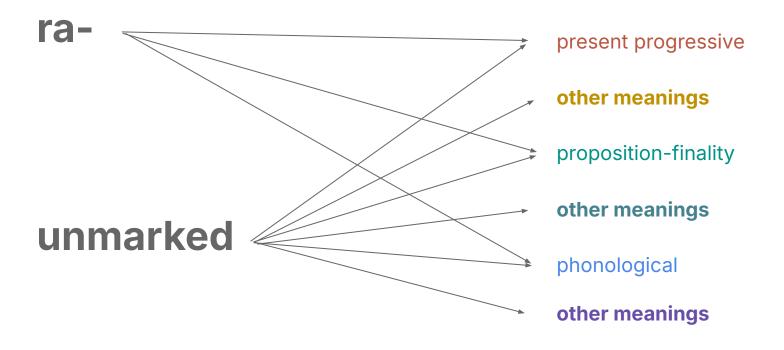
Ntibasoma ibitabo.

"They aren't reading books."

Ntibasoma ibitabo.

"They don't read books."

FORMS FUNCTIONS



Ra- use is subject to variation.

# Negation forbids ra-

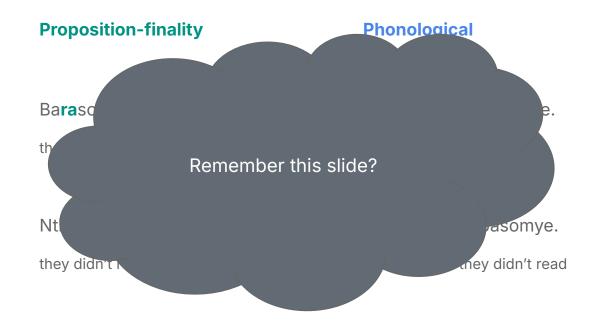
#### **Present progressive**

Ba**ra**soma ibitabo.

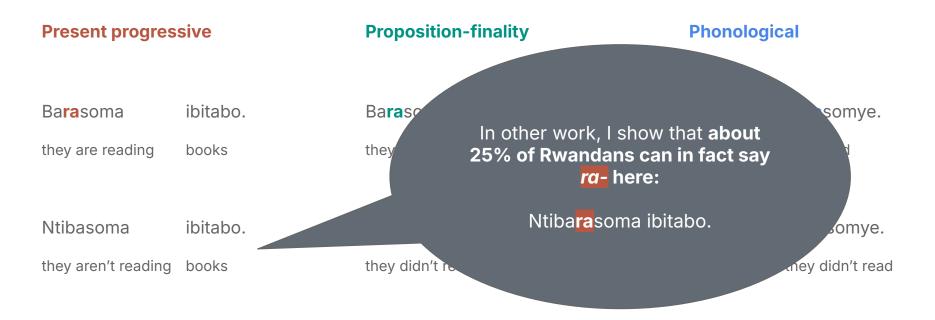
they are reading books

Ntibasoma ibitabo.

they aren't reading books



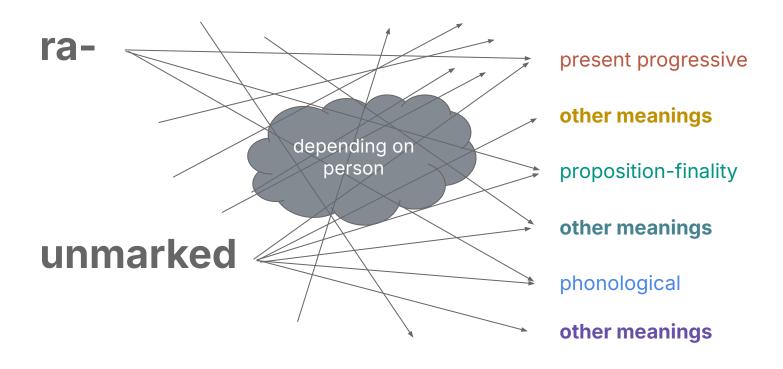
# Negation forbids ra-



Ra- use is subject to variation.

→ Kinyarwanda-acquiring children are exposed to conflicting grammars in their input!

FORMS FUNCTIONS



In practice, ra- is infrequent.



"Rwandan beef, you'll find it here!"

Instances of *ra*- in the input are relatively infrequent.

These infrequent tokens are all a Kinyarwanda-acquiring child has to work with!

# Five reasons why ra- is hard to acquire

- ra- has different functions.
- 2. Those functions draw on different kinds of linguistic knowledge.
- 3. *ra-* does not consistently mark those functions.
- 4. ra- use is subject to variation.
- 5. ra- is infrequent.

# A comprehensive literature review of Kinyarwanda acquisition

#### Let's talk!

What interests you? Teach me!

Language Acquisition, second edition: The Growth of Grammar - Guasti 2016

Young Children's Understanding of Present and Past Tense - Valian 2006

Thank you: Utako Minai

# Murakoze!

Thank you!

# Murakoze!

Thank you!