

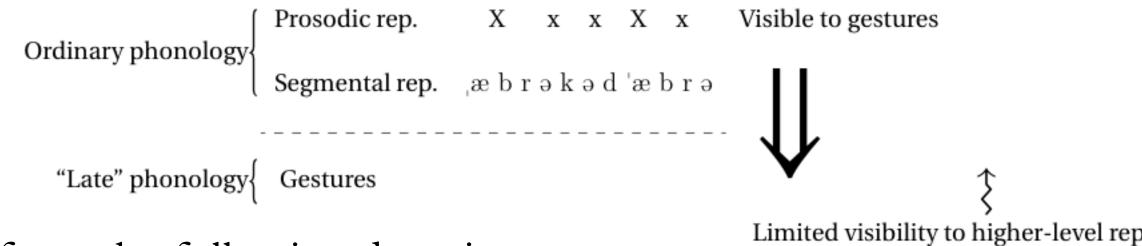
Metathesis is late and fake Madeline Gilbert & Kate Mooney

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I. Main Claim

- Main claim: Productive phonological metathesis is gestural overlap (Grammont 1933; Blevins & Garrett 1998; Hall 2003; Mooney 2021), not transposition
- Secondary claim: Metathesis operates on temporal representations that are late in the phonology
- By late, we mean that there is an asymmetry in what information is available to different levels of representation

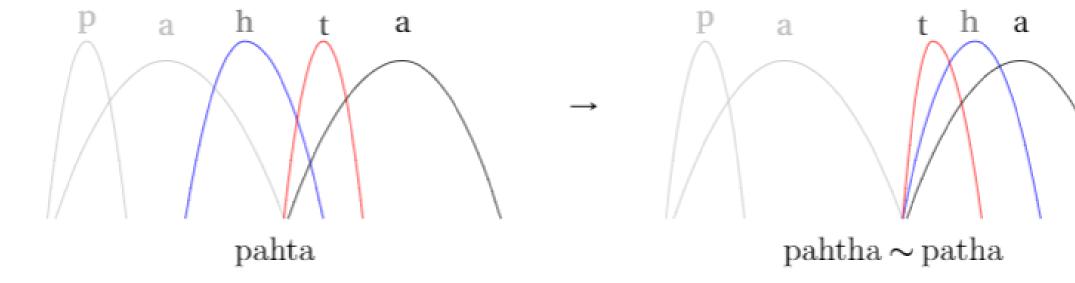


- We present evidence from the following domains:
 - l. Phonetic: synchronic metathesis produces intermediate and coarticulated forms
 - 2. Phonological interactions: phonology acts like metathesis has not occurred

Languages: Sevillian Spanish (Romance) and Uab Meto (Austronesian)

II. Case Study 1: Sevillian Spanish

- Productive CC metathesis in /sp st sk/ clusters (Torreira 2012; Ruch 2013; Ruch & Peters 2016)
 - [s] debuccalizes to [h] and metathesizes
 - $[pahta] \rightarrow [patha]$ 'pasta'
- Phonetics
 - Experimental work suggests that speakers treat [Ch] sequences as underlying /sC/ clusters (Gilbert 2021), not as aspirated stops (cf. O'Neill 2009; Gylfadottir 2015)
 - Metathesis can be understood as overlap of the [h] and stop gestures (following Parrell 2012)



- Phonetically intermediate forms suggest that metathesis occurs via gestural overlap: [ht], [th], [hth]
- Phonological interactions

(2)

- Metathesis operates on surface temporal representations, independent of other phonology
- We use the fact that Spanish is weight-sensitive to test interaction between metathesis and stress
- Weight Restriction for Antepenultimate Stress: *LLHL, \(\sqrt{LLL}\) (Harris 1983)
- If [Ch] sequences are underlying /sC/ clusters, surface syllable structure changes with metathesis ['pla.thi.ko] LLL (3) / 'plas.ti.ko/ HLL
- Question: Does surface change in syllable structure affect stress?
- Results from a nonce word judgment task (Gilbert, ms)

(4)	a. /lumafato/ /LLLL/	fato//LLLL/ b. /lumafasto//LLHL/		c. /lumafanto/ /LLHL/		d. /lumafasto/ /LLHL/
	[luˈmafato] [LLLL]	>	[luˈmafatho]	[LĽLL]	[lu'mafanto] [LLHL]	=

- If stress were evaluated based on the metathesized (=surface) form, we'd expect:
 - (4a.) and (4b.) to be treated equally, because they are both LLLL on the surface
 - (4d.) to be better than (4c.) because (4d.) is LLLL on the surface
- UR weight—not surface—weight matters for stress assignment
- This means that metathesis is not visible to stress assignment
- The gestural representations are not visible to the prosodic representations, so metathesis is late

III. Case Study 2: Uab Meto

• Uab Meto (Austronesian, West Timor) has productive CV metathesis

 \rightarrow [manus]

 $\rightarrow [\text{mauns-es}]$

Metathesis is prosodically conditioned (Mooney 2021), similar to CV metathesis in other Austronesian languages (e.g. Rotuman, Churchward 1940; Kwara'ae, Heinz 2005; Leti, Hume 1998)

'betel vine'

'a betel vine'

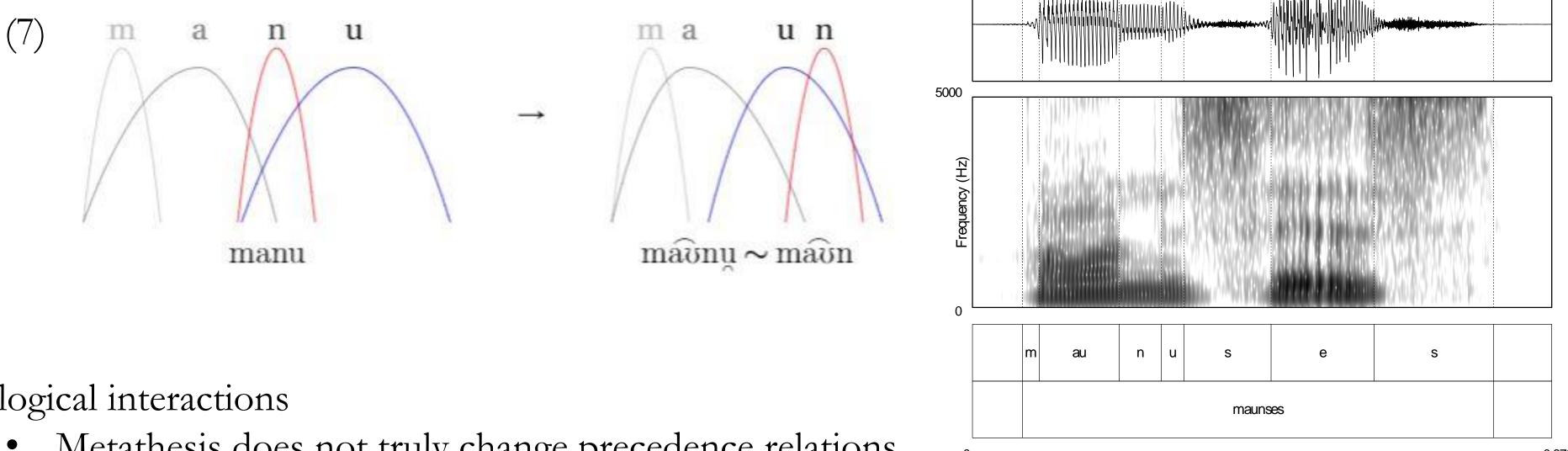
No truncation

Truncation + Met.

• Uab Meto truncates roots to reduce right-edge lapses, as in (5)

(5) a. / 'kiba?/	→ ['kiba?]	'ant'	σσ	$\rightarrow \sigma \sigma$	No truncation
b. / 'kib a?- e/	\rightarrow ['kib ? -es]	'an ant'	σ <u>σσ</u>	$\rightarrow \sigma \underline{\sigma}$	Truncation
In some contexts, as in (6	6), truncation can als	_	_		
			7		

- Phonetics
 - Meto metathesis can be understood as overlap of C and V gestures
 - Like in Sevillian Spanish, this overlap can produce intermediate forms

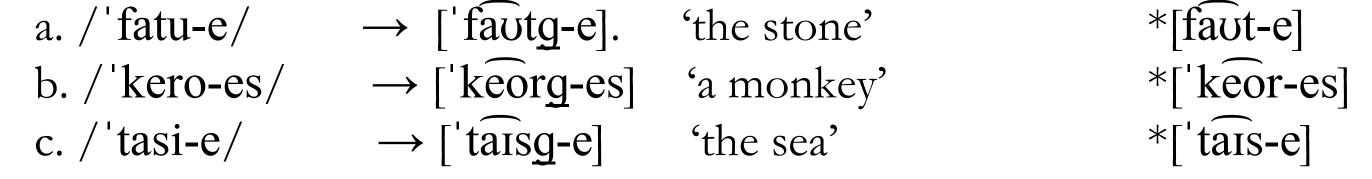


Phonological interactions

'manus/

b. / ma**nu**s-es/

- Metathesis does not truly change precedence relations
- Metathesis can repair a number of markedness violations, but it cannot resolve vowel hiatus
 - (8) Vowel hiatus resolved via epenthesis



- If metathesis were transposition, metathesis alone should be enough in (8), e.g. *[faut-e]
- Metathesis-as-overlap cannot resolve hiatus, because the vowel remains partially in-situ
- Additional perk: analyzing metathesis as overlap removes overgeneration issues associated with LIN

Interim summary:

- Productive, synchronic metathesis in Spanish and Uab Meto share several key characteristics:
 - (a) Metathesis is realized as gestural overlap, and produces intermediate forms around 10% of the time
 - Metathesis doesn't seem to change how the phonology proper views segmental order
 - Metathesis is not morpheme-driven, but entirely predictable based on surface phonology

V. Discussion & Conclusions

- Metathesis in Sevillian Spanish and Uab Meto is overlap, not transposition
 - This supports arguments against transposition in phonology proper (Takahashi 2019)
 - In both cases, this overlap occurs independent of other phonology (e.g. stress assignment)
- What does this mean for the phonetics-phonology interface?
 - Metathesis manipulates gestural representations, not atomic segments
 - Gestural representations are *not* visible to higher-level phonological structure, but the higher-level phonology is visible to gestures
 - We call this asymmetry *lateness*