

The status of the voiceless labial fricative in Media Lengua

Jesse Stewart, Sarah Hadley, Maurie Gagne, Caelan Osborne



Media Lengua

- A Kichwa-Spanish contact language
- Kichwa morphosyntax Spanish lexicon
- Spoken in the Ecuadorian Andes

Research question

- Does Media Lengua pattern with Kichwa (/φ/) or Spanish (/f/) in its production of voiceless labial fricatives?
- What do regional differences between Southern and Northern Kichwa (particularly $/p^h/ > //\phi//)$ tell us about Media Lengua's phonological conservatism?

Methods

- 6 Media Lengua, 7 Kichwa 6 Spanish speakers
- Audio and video recordings
- Stimuli presented via PowerPoint
- Near-minimal pairs
 fanka pampa [#φanga #pamba] 'flatland leaf'
 fuyu pukyu [#φuju #pugju] 'stream cloud'
 fiña piki [#φina #piki] 'flea angry'
- 624 total tokens (248 ML, 159 Kichwa, 217 Spanish)
- Visual inspection for bilabial $[\phi]$ vs. labiodental [f]
- Mixed-effects models (logistic for [φ] vs. [f], linear for duration)



familia [familia] 'family



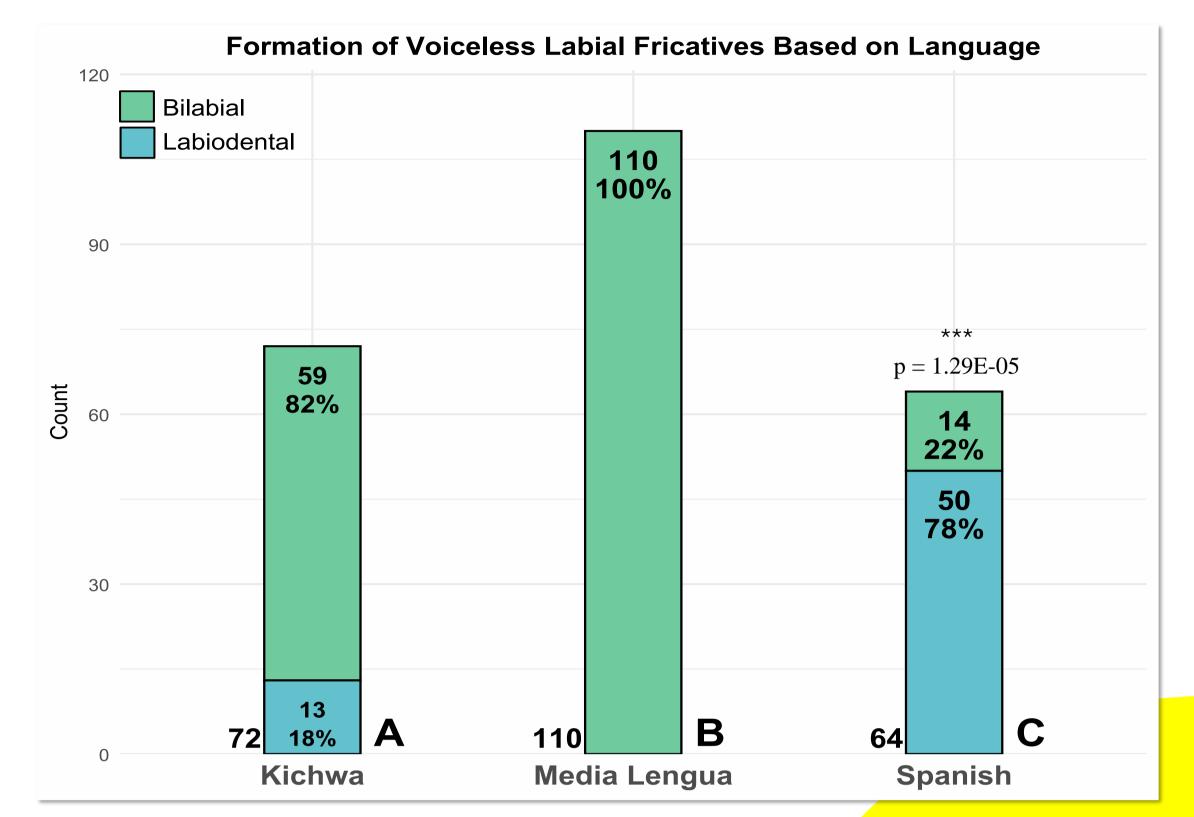
foto [φoto] 'photo'

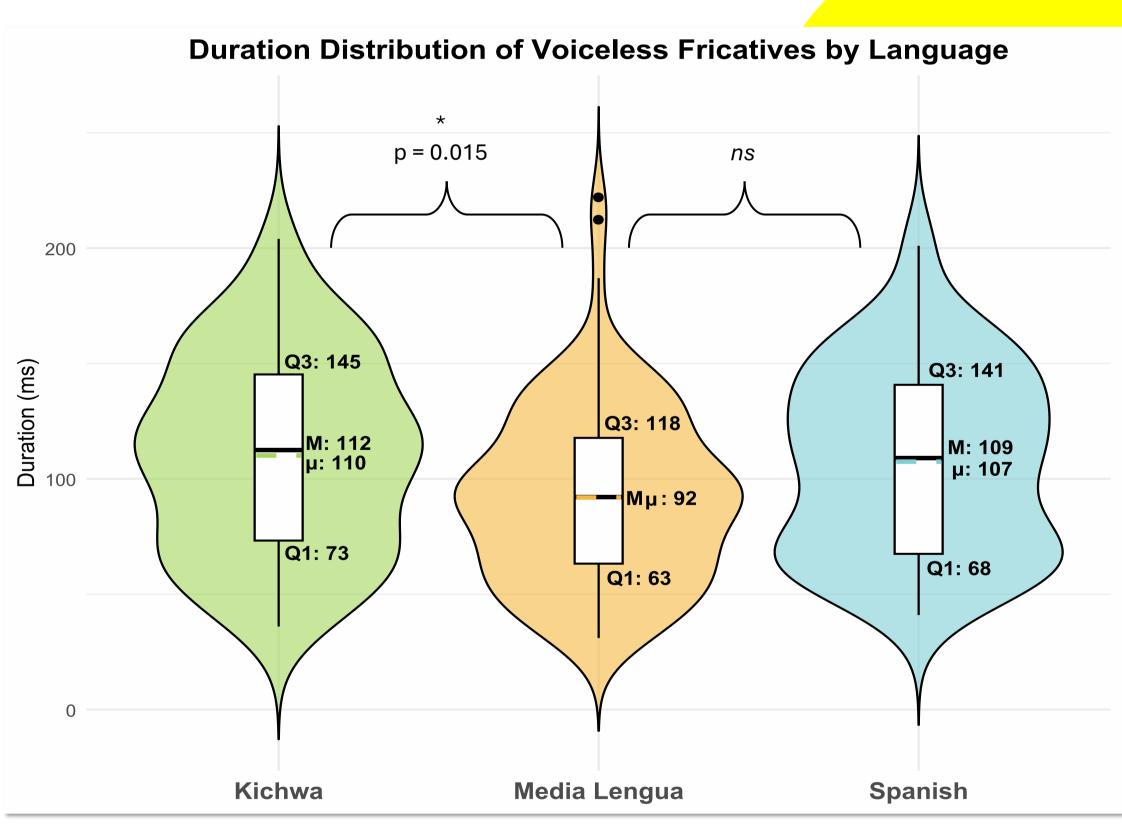
fruta [\phiruta] 'fruit' uniforme [uni\phiorme] 'uniform'



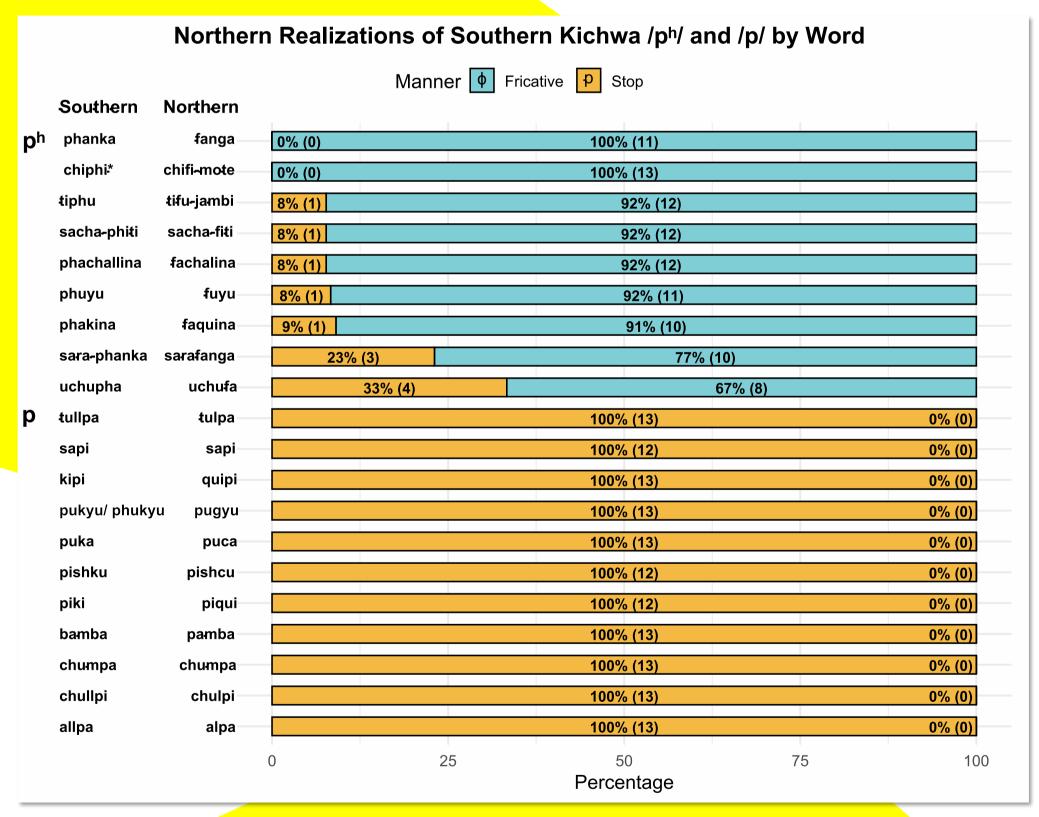
café [kafe] 'coffee'

flecha [fletʃa] 'arrow









stewart.jesse@usask.ca

Discussion

- Media Lengua categorically uses bilabial [φ], even in Spanish-origin words
- Labiodental [f] appears only in Kichwa and Spanish
- The /ph/ \rightarrow // ϕ // shift seen in Northern Kichwa is reflected in Media Lengua, but Media Lengua also shows more [p], possibly preserving older southern forms
- Fricative duration is longest in Media Lengua word-initially; Kichwa shows the opposite pattern

References

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