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On the retention of an old feature in the Tamang dialect of Taglung (Tibeto-Burman, Nepal)



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This study

In Taglung Tamang, when one tone of the low series (tone 4) becomes [high], voicing and breathiness cannot be considered as enhancing features of the tone anymore,

 \triangleright What happens to these old features? \triangleright Are there any distributional regularities?

Method

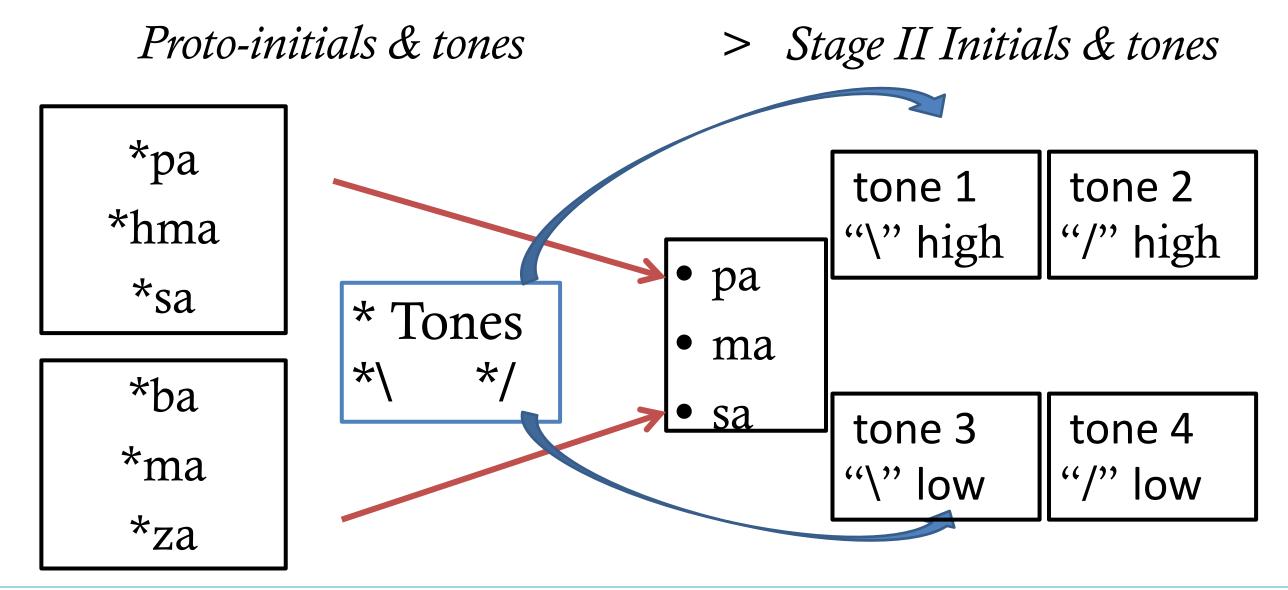
- When: November 2015; March-April 2017; Where: Taglung village, Nepal
- Who: bilingual speakers (Tag & Nepali), M1 (mid-30), M2 (50+), F1 (40+), F2 (70+)
- How: simultaneous audio and electroglottographic (EGG) data, for detection of the voicing, measurement of F0, and OQ (open quotient, higher values indicating breathier voice)
- What: $C_i(L)V(C_f)$ (stem) + nominal/verbal suffix, in isolation and carrier sentences Ci (subset) =/p, t, ts, t, k/; V=/i, i:, e, e:, u, u:, o, o:, a, a:/; L=/l, r, j, w/; Cf=/p, t, s, k, m, n, n, l, r, j/.

Background

Areal diffusion of the sound change

- Starting around 1000 AD in China, with progressive devoicing of oral stops
- Spreading to the South and West, across language families, often with simultaneous voicing of previously voiceless sonorants
- Resulting in a tonal split as the consonant series merge (Haudricourt, 1961, 1972)

Schematic view of the Asian consonant merger and tonal split



Intermediate stage of the sound change

- New low tones accompanied with breathiness
- Some voicing of the initial stops retained
- Retention of these old features viewed as a historical transition, e.g., in Wu Chinese, and the languages of the Tamang group...

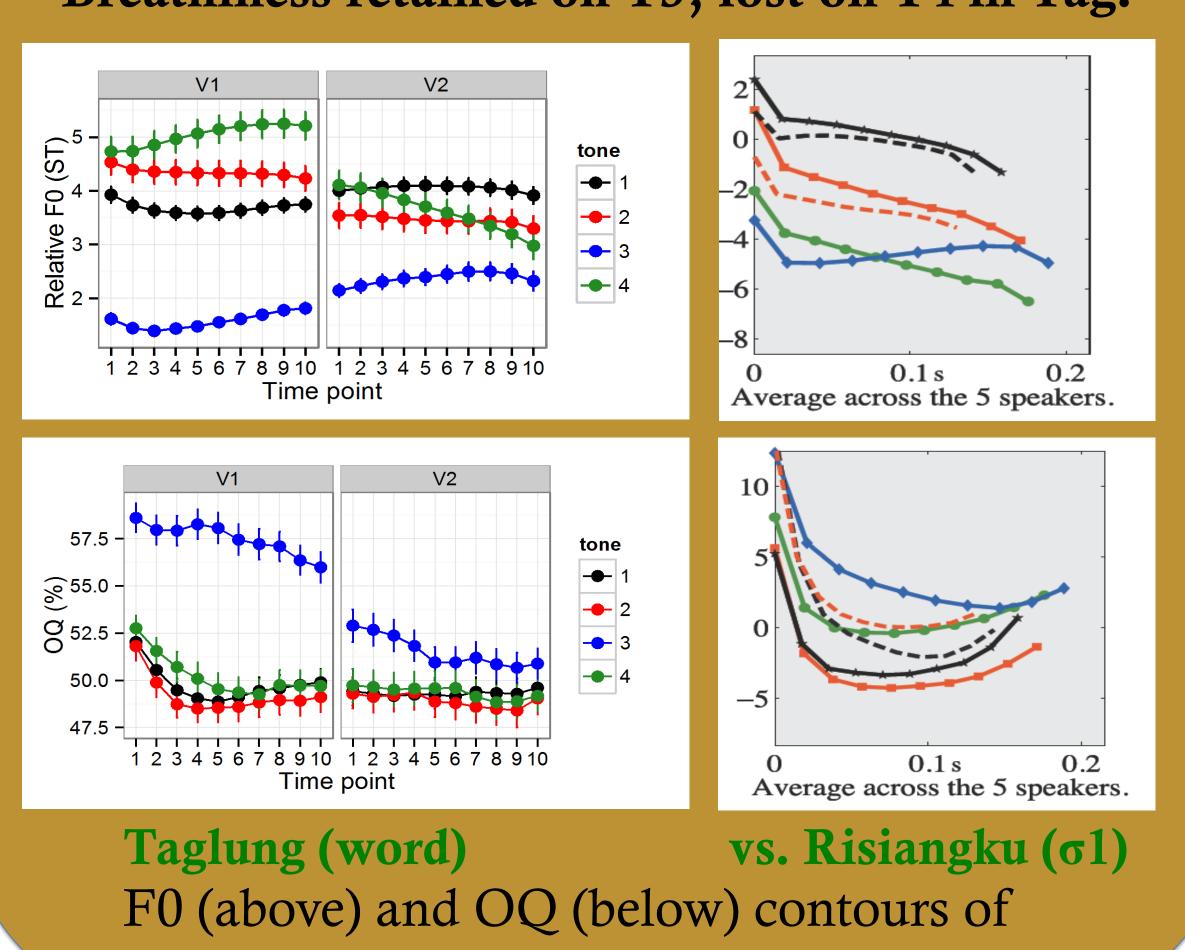
Various patterns of retention of old features in Tamangish languages

- In all Tamangish languages: Voicing never retained on /s/; voicelessness never retained on sonorants
- Whereas, for stops (stop onset words):
 - ➤ **Gurung**: voicing retained only on simple C on tone 4 (low), breathiness retained as enhancement of the two low tones
 - ➤ **Risiangku Tamang**: voicing and breathiness retained as enhancement of the two low tones, no distributional regularities (Mazaudon & Michaud, 2008)
 - > Manang: tone 3>[high], voicing or breathiness NOT retained
 - ➤ **Taglung Tamang**: tone 4>[high], what happens to voicing and breathiness?

Results: F0 and breathiness

(only stop Ci open syllables, averaged for 3 speakers)

Breathiness retained on T3, lost on T4 in Tag.



the 4 tones

-systematically For comp

Results: Voicing (4 speakers)

Quasi-systematically voiced T4 items

4bli 'four' (except when preceded by a classifier)

4bre: 'eight'

4bra: 'cliff'

4baŋ 'strength'

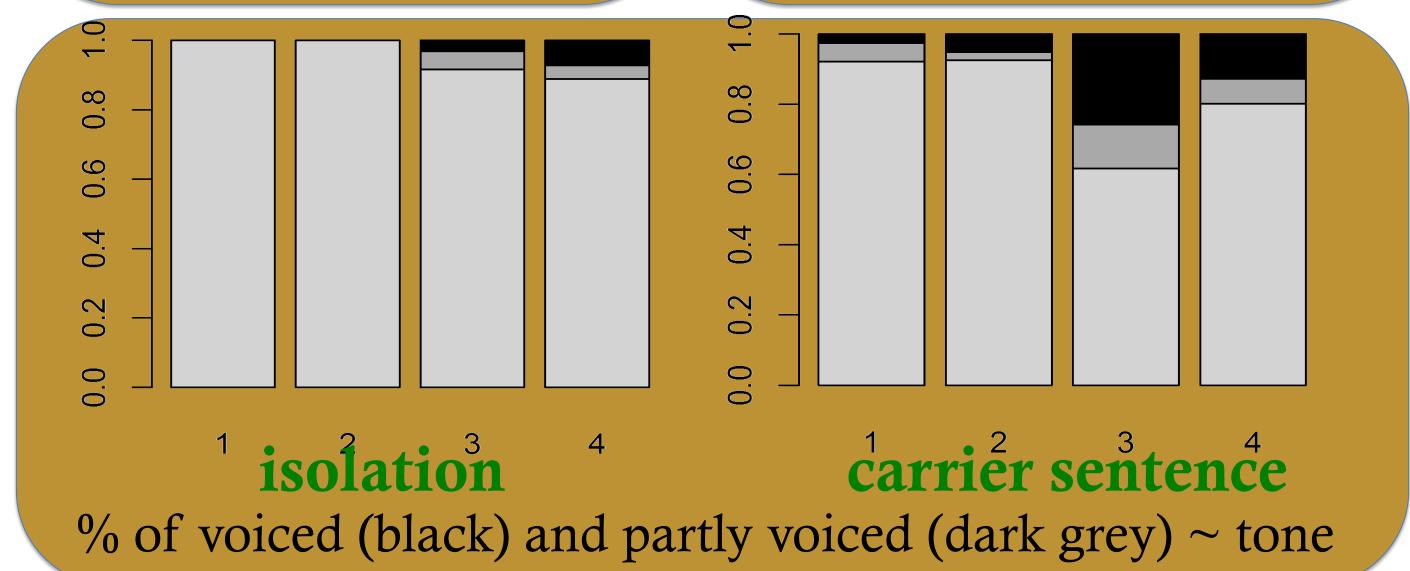
4baŋba 'be strong'

For comparison, some voiceless T4 items

⁴plu 'seed' (never voiced by 3 speakers, voiced by 1)

⁴tu: 'six' (occasionally vcd)

⁴pra: 'flour' (never)



Concluding remarks

- As expected, breathiness has disappeared on tone 4, presumably because it conflicts with the present high-pitch of this tone. This is in line with the idea that low pitch and breathiness are mutual enhancers (e.g.: Silverman, 1977).
- The retention of voicing on tone 3 can also be considered as an enhancing feature, and is favored by sentence-internal position.
- More intriguing is the retention of voicing on tone 4 items, which is systematic on some lexical items, that all begin with a labial stop, and especially in a consonant group (contrary to the Gurung pattern).