



1. INTRODUCTION

- Affix mobility – i.e. prefix/suffix alternations – in (San Francisco del Mar) Huave has previously been analyzed as *phonologically motivated*, driven by the avoidance of consonant clusters and their epenthetic repairs (Kim 2008, 2010; Zukoff 2021).
- While phonological effects on surface order remain uncontroversial, it remains largely undetermined whether mobile affixes are truly underspecified for the edge they attach to, or undergo true phonologically-conditioned movement from a different base position determined on purely morphological grounds.
- **THIS WORK:** The surface position of mobile affixes is derived by phonological movement from the edge they are specified for and initially attach to. Evidence for this claim is provided by cases of partially superfluous extended exponence (Caballero & Harris 2012).

2. HUAVE VERB MORPHOLOGY

- **The Phenomenon:** In Huave, certain verbal affixes vary between prefix and suffix
 - E.g., in (1), the morphological exponent /t/ realizing completive aspect attaches either to the right (1a) or the left (1b) of the stem.
 - C(...)C and V(...)V bases capture the default tendency of mobile affixes to surface as suffixes.
- In (2), 1st person argument is realized twice: once by the more general marker *s* [+1], and once by the more specific marker *n* [+1,+SB].
- Similarly, in (3) the 2nd person argument is marked twice: by the mobile affix *r* [+2, +intransitive] which always co-occurs with the immobile marker *e* [+2].

* **Relative affix order** (Kim 2008): PROG-(1)-FT-2-(CP/SB/1SB/ST/2I)-root-CAUS-(CP/SB/1SB/ST/2I)-ITR-(1)-RF-PASS-PL
* **Mobile affixes:** /t/ COMPLETIVE [CP], /m/ SUBORDINATE [SB], /n/ STATIVE [ST], /r/ 2ND PERSON INTRANSITIVE [2I], /n/ 1ST PERSON SUBORDINATE [1SB]; /s/ 1ST PERSON [1]

3. PREVIOUS WORK

- All of the previous, phonologically oriented approaches actually do without genuine phonological displacement and rather assume variable positioning determined by phonology:
- See Kim (2010) for a cyclic, co-phonology account; Kim (2015) for a subcategorization-based approach; Zukoff (2021) for a fully parallel approach with a single ranking of indexed alignment constraints and *CC/DEP; also Noyer (1994) on San Mateo del Mar Huave and syllable structure constraints.
- Furthermore, a fully syntactic approach is offered by Koopman (2016) based on Universal 20 positing VP movement as opposed to affix mobility.

REFERENCES

Kim, Yuni (2008): Topics in the Phonology and Morphology of San Francisco Del Mar Huave. PhD Dissertation, UC, Berkeley. • Müller, Gereon (2007): Extended Exponence by Enrichment. Argument Encoding in German, Archi, and Timucua. *Proceedings of the 30th Annual Penn Linguistics Colloquium*, UPenn, Philadelphia • Müller, Gereon (2020): Inflectional Morphology in Harmonic Serialism. *Advances in Optimality Theory*, Equinox, Sheffield. • Zukoff, Sam (2021): A Parallel Approach to Mobile Affixation in Huave. *Supplemental Proceedings of AMP 2020*, Washington, DC.

4. EXTENDED EXPONENCE

- **Extended or multiple exponence** (Matthews 1972) refers to cases where a certain feature or a bundle of features is realized by more than one exponent in a given word form.
- Caballero & Harris (2012) propose the taxonomy of extended in (4) based on typological evidence.
- **Observation:** Partially superfluous extended exponence (4.I) raises problems for restrictive theories of inflectional morphology:
 - * Why does the availability (and presence) of a more specific exponent like /y/ ↔ [f₁,f₂] not block a more general exponent /x/ ↔ [f₁]?
 - (4) **Taxonomy of extended exponence**
 - Partially superfluous extended exponence:*
The feature specifications associated with two exponents are in a proper subset relation.
 - /x/ ↔ [f₁] b. /y/ ↔ [f₁,f₂]
 - Overlapping extended exponence:*
Two exponents share some morpho-syntactic feature, but their morpho-syntactic features are not in a subset relation.
 - /x/ ↔ [f₁,f₂] b. /y/ ↔ [f₁,f₃]
 - Fully superfluous extended exponence:*
Two exponents have identical feature specifications.
 - /x/ ↔ [f₁,f₂] b. /y/ ↔ [f₁,f₂]

(5) The Partially Superfluous Extended Exponence Generalization:

If there are two exponents /x/ ↔ [f₁] and /y/ ↔ [f₁,f₂] in a word, /x/ is realized closer to the stem than /y/.

- (5) has been derived by Caballero & Inkelas 2013, Stiebels 2015, and Müller 2020 in different ways in optimality-theoretic approaches to morphology that are sensitive to derivational order. Furthermore, Stiebels (2015) offers empirical evidence for (5).

5. EVIDENCE FOR PHONOLOGICAL MOVEMENT FROM HUAVE

- Given (5), Huave verb forms in (2) and (3) are unexpected:
 - The less specific exponent *s* [+1] in (2) is expected to be attached first and surface closer to the stem since the more specific exponent *n* [+1,+SB] would obviate the need for the realization of *s* [+1].
- **Solution:**
 - Exponent *s* [+1] is realized first, and then *n* [+1,+SB] is attached second in order to realize [+SB].
 - Both are realized in the suffix position, a default landing site for mobile affixes.
 - Consequently, phonotactic constraints cause phonological movement generating the surface affix order where less specific exponents are farther away from the stem.

6. CONCLUSION AND FUTURE RESEARCH...

- **Opaque surface affix order is derived when phonologically-driven movement generates unexpected surface patterns of partially superfluous extended exponence.**
- **FUTURE RESEARCH:** Note that (5) does not need OT approaches to be derived. Whereas some standard restrictions on contextual allomorphy in DM (cf. Embick 2010; Marvin 2002; Bermúdez-Otero 2011 on phases; Bobaljik 2000 on cyclic insertion) do in fact not have (5) as a consequence, it is shown in Grofulović & Müller (2021) that (5) follows without further ado from an approach that relies on local feature copying to bring about extended exponence (Müller 2007) in a cyclic, bottom-up approach to morphological realization.