**Syllabic affiliation of prevocalic glides in Sonoran Spanish**

The study is concerned with the syllabic affiliation of prevocalic glides in Spanish, e.g., ‘i’ in *mie.do* ‘fear’, in particular, we are interested in determining whether prevocalic glides can form a complex onset in some varieties of Spanish. Existing accounts of Spanish syllable structure posit that prevocalic glides cannot be in the onset because when they are, they surface as obstruent consonants, generally fricatives, i.e., *-iendo* [-jen.do] ‘-ing’, *com-iendo* [ko.mjen.do] ‘eating’, vs. *creyendo* [kre.ʝen.do] ‘believing’ (Hualde 2005, Colina 2009). Additional arguments in favor of the nuclear status of prevocalic postconsonantal glides have to do with rhyme restrictions, vowel harmony and hypochoristic formation (cf. Hualde 2014, Colina 2009). While this accounts for prevocalic glides in many varieties of Spanish, in particular those with glide fricativization in the onset, other varieties, such as the Spanish of Sonora, Mexico, allow for glides in the onset (Canfield 1981, Alvar 1996), thus *creyendo* ‘believing’ is realized [kre.jen.do], with a glide instead of a fricative consonant. Consequently, a glide preceded by a consonant (e.g., *i* in *tiara*) could in principle be parsed as the second element in the onset [tj] (i.e. an onset cluster), rather than in the nucleus [ja]. In more general terms, the question is: are prevocalic glides always part of an onset or can the glide be parsed in a complex nucleus preceding a full vowel (in a diphthong)? Onset parsing would suggest cross-dialectal variation in the syllabic affiliation of prevocalic glides. This finding would also bear out the predictions of an optimality-theoretic factorial typology in which constraint reranking predicts possible patterns of variation. More specifically, the reranking of the hierarchy responsible for nuclear glides—\*Onset/glide, Onset >> \*Complex Nuc, Max-IO Ident(cons) (i.e, the constraint that bans glides in the onset dominates the markedness constraint against complex nuclei as well as the faithfulness constraints requiring the preservation of the moraic structure of the input and of the [–cons] specification of the input)—would result in Onset, \*Complex Nuc >> \*Onset/glide, Max-IOIdent(cons), and in the glide being parsed in a complex onset (Colina 2009).

In order to test the hypothesis that postvocalic glides are in the onset in Sonoran Spanish, oral data were collected from 10 speakers of Sonoran Mexican Spanish (with limited English proficiency) using two tasks: an oral recorded phrase reading (e.g. “Digo \_\_\_ porque sí”) and an oral syllable division task. Stimuli in both tasks consisted of 23 nonce words (alongside 23 fillers) containing a C+G+V sequence. Two sets of stimuli (1-2) were designed according to two hypotheses. The first hypothesis relies on a well-known restriction on the Spanish rhyme, namely that Spanish only allows a maximum of three rhyme segments (Harris 1983). Thus if a sequence of CGVGC (Consonant + Glide + Vowel + Glide + Consonant) is allowed (e.g., nonce word *la.ca.puais.to*) the glide should be in the onset, because otherwise the rhyme would contain four segments and would be illicit. Stimuli in this group consisted of four-syllable nonce words that contained a postconsonantal high vocoid followed by a triphthong (four segment rhyme or complex onset + three segment rhyme). Four syllable words were created to avoid a glide + vowel sequence too close to the beginning or end of the word, positions known to favor hiatuses in some dialects (Hualde 1999, 2005). The second set of stimuli was designed around the hypothesis that, if the glide is in the onset, there should be onset co-occurrence restrictions, i.e., only some combinations of consonant + glide should be possible as complex clusters. For instance, a palatal consonant + homorganic glide [j] (e.g., \**ch*[j]*aba)* should be disallowed because their articulations are too similar. For the second set of stimuli, subjects were also given a grammaticality judgment task. Oral production data will be analyzed by two judges first impressionistically and then with Praat according to duration and F1/F2 values.

By testing whether or not these speakers adhere to the segmental restrictions in nonce words, we will gain insight on the status of glides in this variety of Spanish and in Spanish phonology in general. Additionally, the findings have potential implications for research on monolingual and bilingual acquisition and on acquisition errors (e.g., language learning, speech pathology, etc.), as work in these areas is based on phonological descriptions that could be inaccurate or inapplicable to all varieties and speakers.

(1)Stimuli set 1 (Hypothesis 1)

|  |  |
| --- | --- |
| lacap[jaj]sto | lacap[waj]sto |
| lacab[jaj]sto | lacab[waj]sto |
| lacaf[jaj]sto | lacaf[waj]sto |
| lacat[jaj]sto | lacat[waj]sto |
| laced[jaj]sto | lacad[waj]sto |
| lacak[jaj]sto | lacak[waj]sto |
| lacag[jaj]sto | lacag[waj]sto |

(2) Stimuli set 2 (Hypothesis 2)

|  |  |  |
| --- | --- | --- |
| [tʃ] \_\_\_ | [j] \_\_\_ | [ɲ]\_\_ |
| chiaba [tʃj]aba | lliape [jj]ape | mañiala ma[ɲj]ala |
| mebochiana mebo[tʃj]ana | ruyiola ru[jj]ala | costoñialo costo[ɲj]alo |
| pachialo pa[tʃj]alo | payielo pa[jj]alo | ñjape [ɲj]ape |

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