### **ADJUSTING THE GLIDES TO THE SYLLABLE MARGINS**

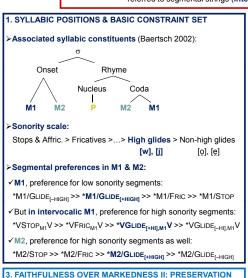
Jesús Jiménez Universitat de València jesus.jimenez@uv.es Maria-Rosa Lloret Universitat de Barcelona mrosa.lloret@ub.edu Clàudia Pons-Moll Universitat de Barcelona claudia.pons@ub.edu

TOPIC:

In Catalan & in Castilian Spanish, the labiovelar glide /w/ & the palatal glide /i/ display a vast array of variation when appearing as the first element in an onset (in Margin 1), whereas there is almost no variation when they appear in codas and as the second element in an onset (in Margin 2).

GOALS:

- (a) To study the variation that glides present in syllable margins in Catalan & in Spanish and to prove that the elements replacing the glides fit better in the syllabic positions in which they appear
- (b) To show that Margin 1 & Margin 2 (M1 & M2) positions make opposite requirements wrt the sonority of the segments (in line with Baertsch 2002).
- (c) To demonstrate that, to formalize the whole variation, we need constraints related to the syllable (intrasyllabic; cf. Baertsch 2002) and constraints referred to segmental strings (intersyllabic; cf. Kirchner 1998, 2004; Uffmann 2005).



# 2. FAITHFULNESS OVER MARKEDNESS I: GENERAL PRESERVATION OF GLIDES IN M2

Faithful mapping in M2: In the second position of an onset and in coda position (M2), both glides always remain unaltered in Catalan & in Spanish:

Catalan q[w]an 'when' di[w] 's/he says' miss[j]ó 'mission re[j] 'king' Spanish d[w]eño 'owner ia[w]la 'cage p[j]e 'foot' re[j] 'king'





## 4. MARKEDNESS OVER FAITHFULNESS: ONSET STRENGTHENING IN CASTILIAN SPANISH

Unfaithful mapping in M1: In Castilian Spanish, glides are always reinforced in the first position of an onset (M1), but to different degrees:

waximaliy		Non-maximally			
[gw]elo	'I smell'	a[yw]ecar	'to hollow'		
[dʝ]ugo	'yoke'	ma[¿]o	'May'		

> Word-initial M1: Extreme reinforcement arises because \*M1/GLIDE[+HI] is located at the top of the ranking, crucially above ID-GLIDE.

/j₁u/go	VSTOP <sub>M1</sub> V	*M1/GLIDE <sub>[+HI]</sub>	*M1/FRIC	ID-GLIDE
a. [j₁u]		*!		
b. [ <b>j₁</b> u]			*!	*
√ c. [ <b>dj</b> ₁u]				*

➤ Intervocalic M1: Glides are reinforced, but not maximally, as a result of the conjoined action of \*M1/GLIDE[+HI] and \*VSTOP<sub>M1</sub>V at the top of the ranking.

m/aj₁o/	VSTOP <sub>M1</sub> V	*M1/GLIDE <sub>[+HI]</sub>	*M1/FRIC	ID-GLIDE
a. [a.j₁o]		*!		
√ b. [a. <b>j</b> ₁o]			*	*
c. [a. <b>dj</b> <sub>1</sub> o]	*!			*

- One could certainly suggest that the underlying representations of huelo and yugo, e.g., already contain the consonants /g/ and /j/ (or /dj/), respectively, but the reinforcement is still active in:
- ✓Recent loanwords: wasapear ~ guasapear 'to whatsapp'.
- ✓ Second language acquisition: [gw] ater 'water',  $[d_{ij}]$  ou 'you'
- ✓ Glides deriving from underlying vowels: [i] tú 'and you', [d,j] un día 'and one day', amigo [,j] amiga 'boyfriend and girlfriend'.

# OF GLIDES IN M1 IN CENTRAL EASTERN CATALAN

Faithful mapping in M1: In Central Eastern Catalan, glides are maintained unchanged (in patrimonial words and in loanwords) in the first position of an onset (M1).

Preservation of glides in M1 in Central Eastern Catalan
[w]eb 'web' di[w]en 'they say'
[j]ogurt 'yogurt' fe[j]a 'it did'

➤ Main ranking: Faithfulness constraints (IDENT-GLIDE, IDENT-HIGH...) outrank \*M1/Glide[+HIGH] & \*VGLIDE[+HI],M1V.

#### 5. FAITHFULNESS AND MARKEDNESS: WEAKENING & STRENGTHENING OF GLIDES IN MAJORCAN CATALAN

➤ Faithful mapping in word-initial M1: Majorcan Catalan allows glides as word-initial M1; i.e., the markedness constraint \*M1/GLIDE<sub>[+H]</sub> must also be consistently outranked by the relevant faithfulness constraints (IDENT-GLIDE, IDENT-HIGH...).

Preservation of glides in word-initial M1

[w]eb 'web' [i]oqurt 'yoqurt'

[w]eb web [J]oguit yo

 Unfaithful mapping of intervocalic /ij!: /ij/ is either realized as a slightly more centralized and open glide ([e]; cf. Mascaró & Rafel 1981; Recasens & Espinosa 2005) or is completely deleted:

Weakening/deletion of /j/ in intervocalic M1

fe[ $\emptyset$ ]a ~ fe[ $\emptyset$ ]a 's/he did' ta[ $\emptyset$ ]ar 'to cut'

ta[e]ar 'to cut' (cf. ta[j] 'l cut')
ma[e] he dit 'l have never said' (cf. ma[j] 'never')

Unfaithful mapping of intervocalic /w/: /w/ is usually strengthened into a fricative [v]:

Strengthening of /w/ in intervocalic M1

di**[v]**en 'they say' (cf. di**[w]** 's/he says')

- > Unfaithful mapping of intervocalic I/J: Given that glides are allowed in the strongest position—the initial position—, we expect them to be allowed intervocalically as well, unless...
- ...even less constricted segments are required by the pressure of the constraint  ${}^*\mathbf{VGLIDE}_{[+HI],M1}\mathbf{V}$  in the ranking:
  - $*VGLIDE_{[+HI],M1}V$ , ID-GLIDE >>  $*M1/GLIDE_{[-HI]}$
- ➤ With this ranking, the high glide [j] is not sonorous enough to appear intervocalically and is replaced by the non-high glide [e]:

f/əj <sub>1</sub> +ə/	*VGLIDE[+HI],M1V	ID-GLIDE	*M1/GLIDE[-HI]
√ a. [ə. <mark>e</mark> ₁ə]			*
b. [ə.j₁ə]	*!		
c. [ə. <b>j</b> 1ə]		*!	

Problem for the analysis: We would expect the labiovelar glide to surface intervocalically as a non-high glide [o]: i. e., diuen \*[di.oen]. That is, it does not seem possible to derive the opposite outcomes for the intervocalic palatal glide and the labiovelar glide from the same ranking.

- ➤ Unfaithful mapping of intervocalic /w/, possible solution: For alternations such as diu [diw] / diuen [di.ven], we could assume that the root displays two allomorphs, one with the labiovelar glide (/diw/) and the other with the labiodental fricative (/div/).
- > Moreover, we presume that the two allomorphs appear with the lexical precedence 'fricative>glide', as in {div>diw} for the root of diuen.
- ➤ The preference for the dominant allomorph is ensured by the PRIORITY constraint: "Respect lexical priority (ordering) of allomorphs" (Bonet et al. 2007: 902; Mascaró 2007: 726).
- $\succ$  Hence, the **fricative is selected** between vowels, even though this outcome violates \*VFRIC<sub>M1</sub>V.

/{/div/ <sub>1</sub> > /diw/ <sub>2</sub> }+ən/	PRIOR	VFRIC <sub>M1</sub> V	*VGL <sub>[+HI],M1</sub> V	ID-GL	*M1/GL <sub>[-HI]</sub>
a. [i. <mark>o₂</mark> ə]	*!				*
b. [i.w <sub>2</sub> ə]	*!		*!		
√ c. [i. <b>v</b> <sub>1</sub> ə]		*			

### 6. CONCLUDING REMARKS

- >The split margin hierarchy (Baertsch 2002) motivates most of the variation that Catalan & Spanish glides display:
  - ✓More sonorous segments are preferred in M2
  - ✓Less sonorous segments are preferred in M1
- We must consider, though, segmental strings to incorporate particular requirements affecting intervocalic onsets.
- > The behavior of /ij in Majorcan Catalan shows that the intervocalic position is not a structural version of M2, but a position with specific demands on its own; in this case, a lower degree of stricture than M2.
- Given the inclusive relationship between M1 & intervocalic M1 positions (all intervocalic M1 are M1), we expect that if a segment with some degree of sonority (e.g., a high glide) is allowed word-initially, segments with either the same degree of sonority (as in Central Eastern Catalan) or with a higher degree (as in Majorcan Catalan) should be allowed intervocalically as well.

#### REFERENCES

■ ALECMAN = Garcia Mouton, Pilar, & Francisco Moreno Fernández (dirs.) (2003). Atlas lingüístico y etnográfico de Castilla – La Mancha). (Available at <a href="http://www.uah2.es/alecman>">http://www.uah2.es/alecman