

Phonological contrasts and gradient effects in ongoing lenition in the Spanish of Gran Canaria

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Supplementary materials

These supplementary materials contain additional data relevant to the results reported in §5 of the paper: participant information (Table III) and descriptive statistics (Tables IV–VI), as well as an example of a sentence annotated in Praat, which illustrates the TextGrid conventions used as the basis for data extraction (Fig. 9).

Two data files are available at <https://doi.org/10.1017/S0952675721000038>:

- (i) `Gran_Canarian_lenition_main.csv`, which lists the sounds used to test Hypotheses 1–4 in (1), i.e. the sounds in the main database, with information on demographics, phonetic context and acoustic measurements;
- (ii) `Gran_Canarian_combinedDB.csv`, which lists the sounds used to test Hypotheses 5–6 in (1), i.e. both the sounds from the main database and those from the deletions database, with information on demographics and phonetic context.

ID	age	gender	education	sentences	phones
1	49	F	secondary	170	427
2	24	M	university	98	253
3	23	M	secondary	145	417
4	21	F	secondary	42	74
5	24	M	university	122	334
6	60	M	unknown	89	275
7	16	M	secondary	47	75
8	55	M	<i>unknown</i>	45	105
9	45	M	secondary	43	121
10	48	M	university	175	551
11	28	F	university	117	283
12	25	M	secondary	162	439
13	56	F	university	194	705
14	22	F	university	113	398
15	79	F	primary	156	524
16	70	F	primary	55	123
17	68	M	primary	34	98
18	23	F	university	123	345
19	55	M	<i>unknown</i>	60	244
20	45	M	university	19	125
21	30	F	university	64	305
22	45	F	university	162	523
23	50	F	university	194	661
24	19	F	secondary	87	170
25	24	M	university	121	610
26	24	M	university	106	254
27	50	M	university	143	716
28	18	M	secondary	50	99
29	25	M	secondary	89	193
30	37	M	<i>unknown</i>	163	397
31	65	M	primary	70	185
32	55	F	secondary	160	486
33	65	F	primary	48	144
34	70	F	primary	41	115
35	22	F	university	167	503
36	23	M	secondary	62	172
37	45	F	university	37	158
38	40	M	university	91	250
39	76	M	primary	121	269
40	71	F	primary	70	117
41	40	M	university	153	345
42	58	M	<i>unknown</i>	121	233
43	63	M	university	151	533
44	51	M	secondary	121	314

Table III

Participant data, containing information on age, gender and level of education, as well as the total number of sentences and phones analysed.

(a)		UR	SR
	voiceless stop	8614	4576
	voiced stop	5054	9092

		UR	SR
	stop	13668	7750
	approximant	–	5918

(b)	following sound	
	vowel	91%
	liquid	7.5%
	consonant	1%
	pause	0.5%

preceding vowel	
[e]	26%
[o]	23%
[a]	30%
[i j]	17%
[u]	4%

(c)	type of change	
	no change	38%
	1 feature	50%
	2 features	11%

(d)	type of syllable	
	stressed	32%
	unstressed	68%

Table IV

Summary of the underlying and surface sounds in the main database relevant to the analysis presented in §5.1: (a) the number of voiceless stop, voiced stop and approximant realisations of underlying sounds, (b) the type of sound following the target sound and the quality of the preceding vowel, (c) the type of change undergone by the underlying sound (in terms of the number of features changed: an unlenited stop shows no featural change, a change from voiceless to voiced stop or from voiced stop to approximant is a change in one feature and a change from voiceless stop to approximant is a change in two features) and (d) the percentage of target sounds occurring in stressed and unstressed syllables.

	/p/	/t/	/k/	/b/	/d/	/g/
main database	2160	2867	3587	2088	2326	640
deletions database	8	30	130	655	1648	315
<i>total sounds</i>	2168	2897	3717	2743	3974	955
deleted	0.4%	1.0%	3.5%	23.9%	41.5%	33.0%
voiced	32.6%	28.7%	25.6%	–	–	–
approximants	11.5%	7.4%	29.4%	69.3%	46.7%	62.0%
<i>total lenition</i>	44.5%	37.1%	58.5%	93.2%	88.2%	95.0%

Table V

Total number of underlying segments and percentage of each weakening type per sound in the two databases. 69.4% of the sounds in the corpus are lenited (17.2% by elision, 14.5% by voicing and 37.7% by approximantisation).

variable	min.	1st quartile	median	mean	3rd quartile	max.
HNR	-0.7	3.9	7.3	8.4	12.2	28.7
relative duration (VCV)	0.0	0.2	0.3	0.3	0.4	0.7
relative duration (VC)	0.0	0.4	0.5	0.5	0.5	0.9
intensity difference	-1.6	0.0	0.0	0.2	0.0	54.4
intensity ratio	0.3	0.6	0.8	0.7	0.9	1.9

Table VI

Summary of phonetic measurement values in the main database.

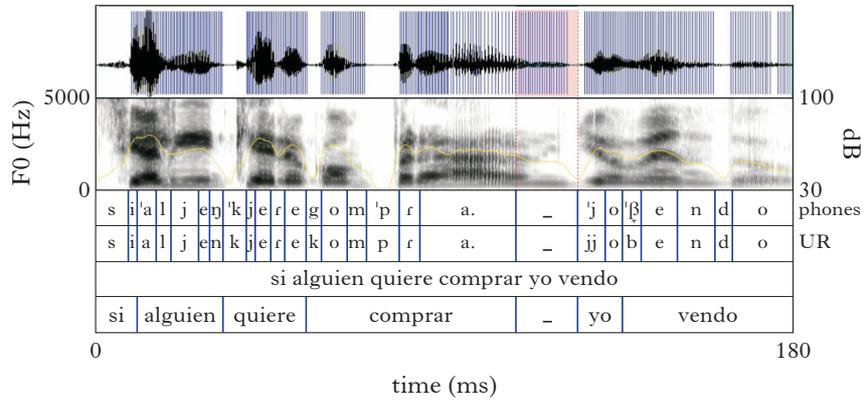


Figure 9

Waveform and spectrogram of the sample sentence *Si alguien quiere comprar yo vendo* 'If someone wants to buy, I sell', together with the corresponding Praat TextGrid. Dots indicate deleted coda consonants.