

# Appendix with statistical output, participants' sociolinguistic information, and list of target words

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**Table 1:** Summary of the linear mixed-effects model fitted to vowel duration (Section 3.1 of the paper).

Predictor	Estimate	SE	CI low	CI up	df	t-value	p-value	< $\alpha$
Intercept	118.06	4.94	108.38	127.74	23.89	23.91	0.00	*
Voicing = voiced	16.28	4.42	7.62	24.95	15.39	3.68	0.00	*
Vowel = /o/	-7.50	3.93	-15.21	0.21	10.31	-1.91	0.08	
Vowel = /u/	-25.71	3.94	-33.44	-17.98	10.43	-6.52	0.00	*
Lang = Polish	-24.05	7.83	-39.40	-8.70	22.38	-3.07	0.01	*
Place = velar	-7.95	1.63	-11.15	-4.75	10.99	-4.87	0.00	*
Speech rate	-16.23	1.26	-18.70	-13.77	854.64	-12.92	0.00	*
Voiced $\times$ /o/	2.09	5.54	-8.77	12.96	10.18	0.38	0.71	
Voiced $\times$ /u/	-13.09	5.56	-23.99	-2.20	10.30	-2.36	0.04	*
Voiced $\times$ Polish	-5.73	6.61	-18.69	7.23	18.00	-0.87	0.40	
/o/ $\times$ Polish	-2.50	5.66	-13.60	8.60	11.09	-0.44	0.67	
/u/ $\times$ Polish	1.12	5.68	-10.01	12.26	11.23	0.20	0.85	
Voiced $\times$ /o/ $\times$ Polish	-6.16	8.00	-21.85	9.53	11.06	-0.77	0.46	
Voiced $\times$ /u/ $\times$ Polish	6.40	8.03	-9.34	22.13	11.19	0.80	0.44	

**Table 2:** Summary of the linear mixed-effects model fitted to closure duration (Section 3.2 of the paper).

Predictor	Estimate	SE	CI low	CI up	df	t-value	p-value	< $\alpha$
Intercept	73.25	4.28	64.86	81.63	22.38	17.11	0.00	*
Voicing = voiced	-17.70	4.06	-25.66	-9.74	18.63	-4.36	0.00	*
Vowel = /o/	3.75	3.26	-2.64	10.13	9.43	1.15	0.28	
Vowel = /u/	-1.91	3.27	-8.32	4.49	9.56	-0.58	0.57	
Lang = Polish	-7.03	6.82	-20.40	6.34	20.82	-1.03	0.31	
Place = velar	3.80	1.38	1.09	6.51	10.94	2.74	0.02	*
Speech rate	-7.86	1.13	-10.08	-5.64	488.51	-6.94	0.00	*
Voiced $\times$ /o/	1.91	4.88	-7.65	11.47	11.80	0.39	0.70	
Voiced $\times$ /u/	10.88	4.79	1.50	20.27	10.97	2.27	0.04	*
Voiced $\times$ Polish	2.30	6.07	-9.59	14.19	19.83	0.38	0.71	
/o/ $\times$ Polish	-1.04	4.67	-10.19	8.10	9.94	-0.22	0.83	
/u/ $\times$ Polish	6.94	4.68	-2.24	16.12	10.09	1.48	0.17	
Voiced $\times$ /o/ $\times$ Polish	1.36	6.84	-12.04	14.77	11.44	0.20	0.85	
Voiced $\times$ /u/ $\times$ Polish	-3.08	6.77	-16.35	10.20	11.01	-0.45	0.66	

**Table 3:** Summary of the linear mixed-effects model for testing the correlation between vowel and closure duration (Section 3.3 of the paper).

Predictor	Estimate	SE	CI low	CI up	df	t-value	p-value	< $\alpha$
Intercept	123.62	6.76	110.36	136.87	56.24	18.27	0.00	*
Closure dur.	-0.19	0.06	-0.32	-0.06	816.53	-2.93	0.00	*
Vowel = /o/	-4.54	6.31	-16.90	7.82	127.47	-0.72	0.47	
Vowel = /u/	-12.47	6.40	-25.00	0.07	134.65	-1.95	0.05	
Speech rate	-5.16	4.28	-13.55	3.23	827.04	-1.21	0.23	
Closure $\times$ /o/	-0.06	0.08	-0.22	0.10	829.38	-0.71	0.48	
Closure $\times$ /u/	-0.23	0.08	-0.39	-0.07	831.49	-2.82	0.00	*
C2 closure $\times$ sp. rate	-0.20	0.06	-0.32	-0.08	826.97	-3.18	0.00	*
/o/ $\times$ sp. rate	-3.75	5.19	-13.92	6.42	819.79	-0.72	0.47	
/u/ $\times$ sp. rate	-10.13	5.50	-20.91	0.64	822.55	-1.84	0.07	
Closure $\times$ /o/ $\times$ sp. rate	0.09	0.07	-0.06	0.23	820.74	1.17	0.24	
Closure $\times$ /u/ $\times$ sp. rate	0.17	0.08	0.01	0.32	823.88	2.14	0.03	*

**Table 4:** Participants' sociolinguistic information. The column 'Spent most time in' gives the city in which the participant spent most of their life. The last column ('> 6 mo') indicates whether the participant has spent more than 6 months abroad .

ID	Age	Sex	Native L	Other Ls	City of birth	Spent most time in	> 6 mo
IT01	29	Male	Italian	English, Spanish	Verbania	Verbania	Yes
IT02	26	Male	Italian	Friulian, English, Ladin-Venetan	Udine	Tricesimo	Yes
IT03	28	Female	Italian	English, German	Verbania	Verbania	No
IT04	54	Female	Italian	Calabrese	Verbania	Verbania	No
IT05	28	Female	Italian	English	Verbania	Verbania	No
IT09	35	Female	Italian	English	Vignola	Vignola	Yes
IT11	24	Male	Italian	English	Monza	Monza	Yes
IT12	26	Male	Italian	English	Rome	Rome	Yes
IT13	20	Female	Italian	English, French, Arabic, Farsi	Ancona	Chiaravalle	Yes
IT14	32	Male	Italian	English, Spanish	Frosinone	Frosinone	Yes
PL02	32	Female	Polish	English, Norwegian, French, German, Dutch	Koło	Poznań	Yes
PL03	26	Male	Polish	Russian, English, French, German	Nowa Sol	Poznań	Yes
PL04	34	Female	Polish	Spanish, English, French	Warsaw	Warsaw	No
PL05	42	Male	Polish	English, French	Przasnysz	Warsaw	No
PL06	33	Male	Polish	English	Zgierz	Zgierz	Yes
PL07	32	Female	Polish	English, Russian	Bielsk Podlaski	Bielsk Podlaski	Yes

**Table 5:** Target words. Asterisks indicate real words .

Italian			Polish		
pata	poto*	putu	pata	poto	putu
pada	podo	pudu	pada*	podo	pudu
paca*	poco*	pucu	paka*	poko	puku
paga*	pogo	pugu	paga	pogo	pugu