

6 Supplemental Materials

6.1 Participants

	Participant	Age	Native language	Birthplace	Age when moved to HK
1	o_f_1	64	Cantonese	HK	0
2	o_f_2	68	Cantonese	HK	0
3	o_f_3	68	Cantonese	HK	0
4	o_f_4	76	Cantonese	HK	0
5	o_f_5	70	Cantonese	HK	0
6	o_f_6	69	Cantonese	HK	0
7	o_f_7	71	Cantonese	HK	0
8	o_f_8	72	Cantonese	Dongguan	3
9	o_f_9	64	Cantonese	Guangzhou	5
10	o_f_10	79	Cantonese	Dongguan	13
11	o_m_1	85	Cantonese	HK	0
12	o_m_2	69	Cantonese	HK	0
13	o_m_3	72	Cantonese	HK	0
14	o_m_4	72	Cantonese	HK	0
15	o_m_5	75	Cantonese	Zhongshan	10
16	o_m_6	75	Cantonese	Kaiping	15
17	o_m_7	81	Cantonese	Shanwei	15
18	o_m_8	72	Cantonese	Panyu	16
19	o_m_9	68	Cantonese	Zhanjiang	18
20	o_m_10	74	Cantonese	Guangzhou	20
21	y_f_1	24	Cantonese	HK	0
22	y_f_2	24	Cantonese	HK	0
23	y_f_3	22	Cantonese	HK	0
24	y_f_4	25	Cantonese	HK	0
25	y_f_5	24	Cantonese	HK	0
26	y_f_6	23	Cantonese	HK	0
27	y_f_7	27	Cantonese	HK	0
28	y_f_8	23	Cantonese	HK	0
29	y_f_9	24	Cantonese	HK	0
30	y_f_10	22	Cantonese	HK	0
31	y_m_1	22	Cantonese	HK	0
32	y_m_2	22	Cantonese	HK	0
33	y_m_3	25	Cantonese	HK	0
34	y_m_4	21	Cantonese	HK	0
35	y_m_5	22	Cantonese	HK	0
36	y_m_6	23	Cantonese	HK	0
37	y_m_7	24	Cantonese	HK	0
38	y_m_8	24	Cantonese	HK	0
39	y_m_9	25	Cantonese	HK	0
40	y_m_10	26	Cantonese	HK	0

6.2 Stimulus list

Table 3: Target stimuli with Jyutping romanization

DR words with URT		LR words		
1	金鋪 “jewelry shop”	gam55 pou33	家譜 “geneology”	gaa55 pou25
2	書架 “bookshelf”	syu55 gaa33	真假 “true/false”	zan55 gaa25
3	今年 “this year”	gam55 nin21	金鏈 “gold chain”	gam55 lin25
4	屋企 “home”	uk55 kei23	卑鄙 “despicable”	bei55 pei25
5	飛彈 “rocket”	fei55 daan22	龜板 “turtle board”	gwai55 baan25
6	開會 “meeting”	hoi55 wui22	崩潰 “collapse”	bang55 kui25
7	雞蛋 “chicken egg”	gai55 daan22	龜板 “turtle board”	gwai55 baan25
8	影相 “take photo”	jing25 soeng33	感想 “thought”	gam25 soeng25
9	炒河 “stirfried rice noodle”	caau25 ho21	許可 “permission”	heoi25 ho25
10	子女 “offspring”	zai25 nei23	少許 “small amount”	siu25 heoi25
11	小二 “waiter”	siu25 ji22	手指 “finger”	sau25 zi25
12	手袋 “handbag”	sau25 doi22	(大改) 小改 “small changes”	siu25 goi25
13	當舖 “pawn shop”	dong33 pou33	菜譜 “menu”	coi33 pou25
14	阿頭 “boss”	aa33 tau21	阿斗 “an inept person”	aa33 dau25
15	對聯 “couplet”	deoi33 lyun21	愛戀 “love”	oi33 lyun25
16	細女 “youngest daughter”	sai33 nei23	讚許 “approval”	zaan33 heoi25
17	過磅 “overweight”	gwo33 bong22	放榜 “release exam results”	fong33 bong25
18	皮帶 “leather belt”	pei21 daai33	搖擺 “swing”	jiu21 baai25
19	油掃 “brush”	jau21 sou33	華嫂 “Auntie Wah”	waa21 sou25
20	楊桃 “starfruit”	joeng21 tou21	黃土 “yellow earth”	wong21 tou25
21	蠶蟲 “silkworm”	caam21 cung21	陳總 “Boss Chen”	can21 zung25
22	條友 “that guy”	tiu21 jau23	人口 “population”	jan21 hau25
23	紅豆 “red bean”	hung21 dau22	紅酒 “red wine”	hung21 zau25
24	眼鏡 “glasses”	ngaan23 geng33	刎頸 (自殺) “cut throat”	man23 geng25
25	女人 “woman”	nei23 jan21	禮品 “gifts”	lai23 ban25
26	老黃 “old Wong”	lou23 wong21	兩廣 “Guangdong/Guangxi”	loeng23 gwong25
27	五兩 (黃金) “five taels”	ng23 loeng23	(禮炮) 五響 “five rings”	ng23 hoeng25
28	冇面 “lose face”	mou23 min22	雅典 “elegant”	ngaa23 din25
29	有位 “opening”	jau23 wai22	有鬼 “haunted”	jau23 gwai25
30	(十) 字架 “cross”	zi22 gaa33	造假 “fake”	zou22 gaa25
31	食糖 “candy eating”	sik22 tong21	直闖 “rush in”	zik22 cong25
32	舊年 “last year”	gau22 nin21	瑞典 “Sweden”	seoi22 din25
33	岳母 “mother-in-law”	ngok22 mou23	聚賭 “gambling”	zeoi22 dou25
34	地下 “ground”	dei22 haa22	自打 (嘴巴) “self-slap”	zi22 daa25

Table 4: Filler stimuli

Chinese	Gloss	Jyutping
牙刷	“toothbrush”	ngaa22caat33
球拍	“racket”	kau22paak33
魚滑	“fish paste”	jyu22waat22
喉核	“larynx”	hau22wat22
蝴蝶	“butterfly”	wudip22
(BB) 滿月	“full month”	mun23jyut22
白鶴	“white crane”	baak22hok22
飯盒	“rice box”	faan22hap22
巡察	“patrol”	ceon21caat33
魂魄	“soul”	wan21paak33
圓滑	“round/smooth”	jyun21waat22
無核 (青提)	“seedless”	mou23wat22
重疊	“stacked”	cung21dip22
(某年) 某月	“some month”	mau23jyut22
大學	“university”	daai22hok22
混合	“mixed”	wan22hap22

6.3 Model 1

Table 5: Model 1: Parametric Coefficients. *** = $p < 0.001$; ** = $p < 0.01$; * = $p < 0.05$.

Coefficient	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.090	0.226	-0.398	0.690
LEXICALITYLR	-0.172	0.077	-2.242	0.025 *
CONTEXTT22	0.208	0.113	1.831	0.067 .
CONTEXTT23	0.742	0.115	6.457	1.08e-10 ***
CONTEXTT25	0.321	0.118	2.713	0.007 **
CONTEXTT33	0.297	0.117	2.530	0.011 *
CONTEXTT55	0.230	0.114	2.018	0.044 *
AGEy	-0.030	0.038	-0.793	0.428
GENDERm	-0.041	0.038	-1.101	0.271

Table 6: Model 1: Smooth Terms. *** = $p < 0.001$.

Term	edf	Ref.df	F	p-value
s(POINT):LEXICALITYDR	1.000	1.001	2.982	0.084 .
s(POINT):LEXICALITYLR	0.000	0.001	0.077	0.994
s(POINT):CONTEXT21	7.161	7.692	40.096	< 2e-16 ***
s(POINT):CONTEXT22	5.632	6.575	10.918	< 2e-16 ***
s(POINT):CONTEXT23	1.000	1.001	0.080	0.778
s(POINT):CONTEXT25	5.749	6.641	37.268	< 2e-16 ***
s(POINT):CONTEXT33	1.000	1.001	0.637	0.425
s(POINT):CONTEXT55	7.085	7.678	74.434	< 2e-16 ***
s(POINT):AGE0	4.819	5.002	16.847	< 2e-16 ***
s(POINT):AGEY	1.006	1.007	0.524	0.472
s(POINT):GENDERf	1.002	1.003	0.004	0.964
s(POINT):GENDERm	3.943	4.119	13.050	< 2e-16 ***
te(POINT,DURATION)	20.480	22.180	97.580	< 2e-16 ***
s(POINT,ONSET)	74.530	143.000	571.009	2.62e-05 ***
s(POINT,SYLLABLE TYPE)	6.824	17.000	2.758	< 2e-16 ***
s(POINT,HEIGHT)	18.100	26.000	7297.853	< 2e-16 ***
s(POINT,SPEAKER)	271.000	357.000	36.959	< 2e-16 ***
s(POINT,SPEAKER):LEXICALITYDR	35.930	359.000	1.610	< 2e-16 ***
s(POINT,SPEAKER):LEXICALITYLR	76.460	359.000	2.170	< 2e-16 ***
s(WORD)	48.680	60.000	56.586	< 2e-16 ***

6.4 Model 2

Table 7: Model 2: Parametric coefficients. *** = $p < 0.001$; ** = $p < 0.01$; * = $p < 0.05$.

Coefficient	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.179	0.175	-1.025	0.305
AGEGENDERCONTEXTLEXICALITYy.f.T21.DR	-0.305	0.082	-3.725	0.000 ***
AGEGENDERCONTEXTLEXICALITYo.m.T21.DR	0.268	0.082	3.273	0.001 **
AGEGENDERCONTEXTLEXICALITYy.m.T21.DR	-0.250	0.082	-3.059	0.002 **
AGEGENDERCONTEXTLEXICALITYo.f.T22.DR	0.194	0.198	0.980	0.327
AGEGENDERCONTEXTLEXICALITYy.f.T22.DR	0.188	0.212	0.887	0.375
AGEGENDERCONTEXTLEXICALITYo.m.T22.DR	0.189	0.212	0.892	0.372
AGEGENDERCONTEXTLEXICALITYy.m.T22.DR	0.136	0.212	0.641	0.522
AGEGENDERCONTEXTLEXICALITYo.f.T23.DR	0.675	0.205	3.287	0.001 **
AGEGENDERCONTEXTLEXICALITYy.f.T23.DR	0.733	0.218	3.357	0.001 ***
AGEGENDERCONTEXTLEXICALITYo.m.T23.DR	0.726	0.218	3.322	0.001 ***
AGEGENDERCONTEXTLEXICALITYy.m.T23.DR	0.739	0.218	3.385	0.001 ***
AGEGENDERCONTEXTLEXICALITYo.f.T25.DR	0.464	0.190	2.437	0.015 *
AGEGENDERCONTEXTLEXICALITYy.f.T25.DR	0.813	0.204	3.977	0.000 ***
AGEGENDERCONTEXTLEXICALITYo.m.T25.DR	0.209	0.205	1.021	0.307
AGEGENDERCONTEXTLEXICALITYy.m.T25.DR	0.523	0.205	2.553	0.011 *
AGEGENDERCONTEXTLEXICALITYo.f.T33.DR	0.146	0.198	0.738	0.461
AGEGENDERCONTEXTLEXICALITYy.f.T33.DR	0.139	0.211	0.659	0.510
AGEGENDERCONTEXTLEXICALITYo.m.T33.DR	0.286	0.212	1.351	0.177
AGEGENDERCONTEXTLEXICALITYy.m.T33.DR	0.230	0.212	1.085	0.278
AGEGENDERCONTEXTLEXICALITYo.f.T55.DR	0.341	0.183	1.866	0.062
AGEGENDERCONTEXTLEXICALITYy.f.T55.DR	0.531	0.197	2.689	0.007 **
AGEGENDERCONTEXTLEXICALITYo.m.T55.DR	0.279	0.197	1.415	0.157
AGEGENDERCONTEXTLEXICALITYy.m.T55.DR	0.206	0.198	1.044	0.296
AGEGENDERCONTEXTLEXICALITYo.f.T21.LR	-0.079	0.204	-0.386	0.699
AGEGENDERCONTEXTLEXICALITYy.f.T21.LR	-0.314	0.205	-1.530	0.126
AGEGENDERCONTEXTLEXICALITYo.m.T21.LR	0.162	0.205	0.792	0.428
AGEGENDERCONTEXTLEXICALITYy.m.T21.LR	-0.089	0.205	-0.436	0.663
AGEGENDERCONTEXTLEXICALITYo.f.T22.LR	0.308	0.204	1.512	0.131
AGEGENDERCONTEXTLEXICALITYy.f.T22.LR	-0.015	0.205	-0.072	0.942
AGEGENDERCONTEXTLEXICALITYo.m.T22.LR	0.022	0.205	0.106	0.916
AGEGENDERCONTEXTLEXICALITYy.m.T22.LR	0.008	0.205	0.040	0.968
AGEGENDERCONTEXTLEXICALITYo.f.T23.LR	0.571	0.216	2.637	0.008 **
AGEGENDERCONTEXTLEXICALITYy.f.T23.LR	0.677	0.218	3.114	0.002 **
AGEGENDERCONTEXTLEXICALITYo.m.T23.LR	0.413	0.218	1.896	0.058
AGEGENDERCONTEXTLEXICALITYy.m.T23.LR	0.443	0.218	2.034	0.042 *
AGEGENDERCONTEXTLEXICALITYo.f.T25.LR	0.183	0.214	0.852	0.394
AGEGENDERCONTEXTLEXICALITYy.f.T25.LR	0.540	0.216	2.504	0.012 *
AGEGENDERCONTEXTLEXICALITYo.m.T25.LR	-0.070	0.216	-0.323	0.747
AGEGENDERCONTEXTLEXICALITYy.m.T25.LR	0.408	0.216	1.890	0.059
AGEGENDERCONTEXTLEXICALITYo.f.T33.LR	0.286	0.210	1.361	0.173
AGEGENDERCONTEXTLEXICALITYy.f.T33.LR	0.350	0.212	1.654	0.098
AGEGENDERCONTEXTLEXICALITYo.m.T33.LR	0.236	0.212	1.114	0.265
AGEGENDERCONTEXTLEXICALITYy.m.T33.LR	0.277	0.212	1.310	0.190
AGEGENDERCONTEXTLEXICALITYo.f.T55.LR	0.034	0.210	0.160	0.873
AGEGENDERCONTEXTLEXICALITYy.f.T55.LR	0.260	0.212	1.231	0.218
AGEGENDERCONTEXTLEXICALITYo.m.T55.LR	-0.141	0.212	-0.666	0.505
AGEGENDERCONTEXTLEXICALITYy.m.T55.LR	-0.078	0.212	-0.368	0.713

Table 8: Model 2: Smooth Terms (Part 1). *** = $p < 0.001$; ** = $p < 0.01$.

Term	edf	Ref.df	F	p-value
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T21.DR	5.703	6.685	28.126	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T21.DR	3.646	4.459	16.527	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T21.DR	6.078	7.005	35.390	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T21.DR	3.808	4.653	30.441	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T22.DR	4.463	5.405	21.071	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T22.DR	1.305	1.467	22.778	4.84e-08 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T22.DR	4.925	5.884	25.510	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T22.DR	2.321	2.864	22.909	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T23.DR	1.738	2.122	11.725	5.84e-06 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T23.DR	3.484	4.254	4.704	0.0006 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T23.DR	4.232	5.089	12.591	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T23.DR	3.899	4.747	3.739	0.002128 **
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T25.DR	4.614	5.571	21.112	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T25.DR	3.348	4.107	7.009	1.13e-05 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T25.DR	3.009	3.645	2.395	0.0549
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T25.DR	3.518	4.318	8.883	9.72e-07 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T33.DR	1.049	1.089	39.940	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T33.DR	2.233	2.738	8.451	5.70e-05 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T33.DR	4.240	5.124	17.988	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T33.DR	1.033	1.062	28.801	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T55.DR	4.691	5.655	11.229	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T55.DR	5.887	6.857	30.234	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T55.DR	4.845	5.786	8.081	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T55.DR	5.831	6.808	25.590	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T21.LR	5.959	6.912	27.972	< 2e-16 ***

Table 9: Model 2: Smooth Terms (Part 2). *** = $p < 0.001$; ** = $p < 0.01$; * = $p < 0.05$.

Term	edf	Ref.df	F	p-value
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T21.LR	3.385	4.143	16.941	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T21.LR	6.413	7.272	33.124	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T21.LR	4.126	5.017	33.965	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T22.LR	3.418	4.193	20.822	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T22.LR	2.825	3.467	9.495	1.81e-06 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T22.LR	5.044	6.013	19.145	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T22.LR	2.404	2.970	21.769	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T23.LR	2.357	2.902	11.951	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T23.LR	2.488	3.040	4.406	0.004 **
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T23.LR	3.917	4.733	11.411	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T23.LR	1.003	1.007	19.438	1.01e-05 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T25.LR	5.014	6.000	14.067	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T25.LR	3.743	4.577	5.317	0.0002 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T25.LR	3.196	3.873	4.900	0.0009 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T25.LR	4.405	5.346	11.249	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T33.LR	1.038	1.068	33.820	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T33.LR	2.700	3.318	6.223	0.0002 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T33.LR	4.127	4.996	16.247	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T33.LR	1.023	1.044	25.841	3.53e-07 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.f.T55.LR	3.744	4.572	8.853	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.f.T55.LR	5.986	6.939	26.340	< 2e-16 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYo.m.T55.LR	3.952	4.767	5.473	6.77e-05 ***
s(POINT):AGEGENDERCONTEXTLEXICALITYy.m.T55.LR	5.905	6.869	26.675	< 2e-16 ***
te(POINT,DURATION)	20.932	22.442	100.946	< 2e-16 ***
s(POINT,ONSET)	79.792	158.000	995.830	0.000115 **
s(POINT,SYLLABLE TYPE)	8.391	19.000	126.579	0.0189 *
s(POINT,HEIGHT)	19.304	28.000	1456.992	2.42e-06 ***
s(POINT,SPEAKER)	310.924	393.000	23.495	< 2e-16 ***
s(POINT,SPEAKER):LEXICALITYDR	53.126	393.000	0.766	< 2e-16 ***
s(POINT,SPEAKER):LEXICALITYLR	68.339	392.000	1.063	< 2e-16 ***
s(WORD)	44.315	56.000	56.478	< 2e-16 ***

6.5 Model 3

Table 10: Model 3: Parametric Coefficients. *** = $p < 0.001$; ** = $p < 0.01$; * = $p < 0.05$.

Term	Estimate	Std. Error	t value	p-value
(Intercept)	-0.160	0.285	-0.562	0.574
AGEy	-0.051	0.039	-1.316	0.188
GENDERm	-0.021	0.039	-0.545	0.586
CONTEXTURTT22.DR-T21	0.237	0.232	1.021	0.307
CONTEXTURTT23.DR-T21	0.819	0.267	3.070	0.002 **
CONTEXTURTT25.DR-T21	0.036	0.290	0.125	0.900
CONTEXTURTT33.DR-T21	0.404	0.229	1.764	0.078 .
CONTEXTURTT55.DR-T21	0.215	0.310	0.694	0.488
CONTEXTURTT21.DR-T22	0.221	0.290	0.763	0.446
CONTEXTURTT22.DR-T22	0.794	0.296	2.679	0.007 **
CONTEXTURTT23.DR-T22	0.717	0.267	2.687	0.007 **
CONTEXTURTT25.DR-T22	0.335	0.252	1.332	0.183
CONTEXTURTT33.DR-T22	0.282	0.298	0.944	0.345
CONTEXTURTT55.DR-T22	0.721	0.231	3.127	0.002 **
CONTEXTURTT21.DR-T23	-0.234	0.324	-0.723	0.469
CONTEXTURTT22.DR-T23	-0.159	0.338	-0.471	0.638
CONTEXTURTT23.DR-T23	1.522	0.315	4.830	1.37e-06 ***
CONTEXTURTT25.DR-T23	0.997	0.328	3.038	0.002 **
CONTEXTURTT33.DR-T23	0.300	0.328	0.916	0.360
CONTEXTURTT55.DR-T23	0.042	0.328	0.129	0.897
CONTEXTURTT21.DR-T33	0.169	0.248	0.681	0.496
CONTEXTURTT22.DR-T33	0.435	0.293	1.483	0.138
CONTEXTURTT23.DR-T33	0.816	0.297	2.748	0.006 **
CONTEXTURTT25.DR-T33	0.533	0.301	1.774	0.076 .
CONTEXTURTT33.DR-T33	0.237	0.298	0.796	0.426
CONTEXTURTT55.DR-T33	0.291	0.249	1.170	0.242
CONTEXTURTT21.LR-T25	0.057	0.203	0.283	0.777
CONTEXTURTT22.LR-T25	0.212	0.203	1.044	0.296
CONTEXTURTT23.LR-T25	0.641	0.208	3.079	0.002 **
CONTEXTURTT25.LR-T25	0.196	0.213	0.917	0.359
CONTEXTURTT33.LR-T25	0.369	0.209	1.763	0.078 .
CONTEXTURTT55.LR-T25	0.047	0.209	0.226	0.821

Table 11: Model 3: Smooth Terms (Part 1). *** = $p < 0.001$; ** = $p < 0.01$; . = $p < 0.1$.

Term	edf	Ref.df	F	p-value
s(POINT):AGEo	6.185	6.399	16.248	< 2e-16 ***
s(POINT):AGEy	0.005	0.006	0.007	0.995
s(POINT):GENDERf	4.370	4.569	12.704	< 2e-16 ***
s(POINT):GENDERm	1.011	1.012	0.003	0.986
s(POINT):CONTEXTURTT21.DR-T21	6.111	7.181	14.332	< 2e-16 ***
s(POINT):CONTEXTURTT22.DR-T21	4.188	5.082	12.333	< 2e-16 ***
s(POINT):CONTEXTURTT23.DR-T21	2.721	3.277	3.737	0.009 **
s(POINT):CONTEXTURTT25.DR-T21	3.630	4.459	10.815	< 2e-16 ***
s(POINT):CONTEXTURTT33.DR-T21	1.021	1.039	11.813	0.001 ***
s(POINT):CONTEXTURTT55.DR-T21	4.277	5.200	9.183	< 2e-16 ***
s(POINT):CONTEXTURTT21.DR-T22	3.993	4.906	15.370	< 2e-16 ***
s(POINT):CONTEXTURTT22.DR-T22	2.175	2.687	8.192	0.000 ***
s(POINT):CONTEXTURTT23.DR-T22	1.015	1.026	3.103	0.078 .
s(POINT):CONTEXTURTT25.DR-T22	4.367	5.293	14.654	< 2e-16 ***
s(POINT):CONTEXTURTT33.DR-T22	1.004	1.008	8.923	0.003 **
s(POINT):CONTEXTURTT55.DR-T22	6.468	7.559	17.427	< 2e-16 ***
s(POINT):CONTEXTURTT21.DR-T23	3.192	3.888	12.633	< 2e-16 ***
s(POINT):CONTEXTURTT22.DR-T23	3.414	4.126	9.543	1.15e-06 ***
s(POINT):CONTEXTURTT23.DR-T23	1.679	2.045	4.099	0.016 *
s(POINT):CONTEXTURTT25.DR-T23	2.598	3.183	2.919	0.030 *
s(POINT):CONTEXTURTT33.DR-T23	1.372	1.582	5.704	0.005 **
s(POINT):CONTEXTURTT55.DR-T23	5.070	6.058	6.763	< 2e-16 ***
s(POINT):CONTEXTURTT21.DR-T33	5.086	6.136	14.898	< 2e-16 ***
s(POINT):CONTEXTURTT22.DR-T33	1.018	1.034	12.719	0.000 ***
s(POINT):CONTEXTURTT23.DR-T33	2.521	3.113	5.197	0.001 **
s(POINT):CONTEXTURTT25.DR-T33	4.427	5.379	12.151	< 2e-16 ***
s(POINT):CONTEXTURTT33.DR-T33	1.015	1.030	4.792	0.027 *
s(POINT):CONTEXTURTT55.DR-T33	5.780	6.900	25.641	< 2e-16 ***
s(POINT):CONTEXTURTT21.LR-T25	6.988	7.967	27.620	< 2e-16 ***
s(POINT):CONTEXTURTT22.LR-T25	4.372	5.305	6.999	< 2e-16 ***
s(POINT):CONTEXTURTT23.LR-T25	1.068	1.120	4.803	0.022 *
s(POINT):CONTEXTURTT25.LR-T25	6.105	7.192	23.193	< 2e-16 ***
s(POINT):CONTEXTURTT33.LR-T25	1.045	1.085	7.339	0.007 **
s(POINT):CONTEXTURTT55.LR-T25	7.071	8.053	47.347	< 2e-16 ***

Table 12: Model 3: Smooth Terms (Part 2). *** = $p < 0.001$.

Term	edf	Ref.df	F	p-value
te(POINT,DURATION)	20.931	22.360	93.760	< 2e-16 ***
s(POINT,ONSET)	73.402	159.000	301.367	3.24e-05 ***
s(POINT,SYLLABLETYPE)	7.713	19.000	1.967	7.67e-06 ***
s(POINT,HEIGHT)	20.187	29.000	1988.301	< 2e-16 ***
s(POINT,SPEAKER)	312.274	397.000	26.248	< 2e-16 ***
s(POINT,SPEAKER):URTDR-T21	94.199	399.000	0.746	< 2e-16 ***
s(POINT,SPEAKER):URTDR-T22	52.424	398.000	0.448	< 2e-16 ***
s(POINT,SPEAKER):URTDR-T23	85.432	399.000	1.175	< 2e-16 ***
s(POINT,SPEAKER):URTDR-T33	73.023	399.000	0.934	< 2e-16 ***
s(POINT,SPEAKER):URTLR-T25	59.567	399.000	0.591	< 2e-16 ***
s(WORD)	25.949	38.000	30.975	< 2e-16 ***