

SUPPLEMENTARY MATERIAL

“Bilinguals have a single computational system but two compartmentalized phonological grammars: Evidence from code-switching”

APPENDIX A. R-script for AIC analysis of generalized linear models

```
attach(Model_fit)
names(Model_fit)

Baseline <- glm(Logit ~ Onset+Coda, gaussian())
summary(Baseline)

LanguageMod <- glm(Logit ~ Onset+Coda+Language+Language*Onset*Coda,
  gaussian())
summary(LanguageMod)

ContextMod <- glm(Logit ~ Onset+Coda+Context+Context*Onset*Coda,
  gaussian())
summary(ContextMod)

library(AICcmodavg)
models_glm <- list(Baseline, LanguageMod, ContextMod)
models_glm.names <- c('Baseline', 'LanguageMod', 'ContextMod')
AICtab(cand.set = models_glm, modnames = models_glm.names)
```

APPENDIX B. File-disaggregated results of Maria’s syllable frequency

Number of syllabic segments in **English** portions of Maria’s **unilingual speech**

	CV	CVC	V	VC	CCV	CCCV	VCC	VCCC	CCVC	CVCC	CCVCC	CVCCC	CCCVC	CCCVCC	CCVCCC
Maria1	71	94	24	30	6	0	16	1	8	27	4	2	0	0	0
Maria2	35	20	2	16	4	0	1	0	0	6	0	1	0	0	0
Maria4	348	418	94	133	29	1	47	0	24	104	12	6	1	0	0
Maria7	79	71	6	22	3	0	6	0	7	7	4	3	0	0	0
Maria10	478	535	106	156	32	3	42	0	25	143	14	13	0	0	0
Maria16	561	694	127	217	52	0	59	1	43	142	13	10	1	0	1
Maria18	787	836	145	268	87	0	66	0	67	210	18	19	0	0	0
Maria19	458	600	112	198	47	0	50	0	45	136	10	13	1	0	1
Maria20	163	186	35	52	18	0	22	0	11	46	6	8	1	1	0
Maria21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maria24	834	860	189	224	39	0	82	0	65	211	19	10	5	0	1
Maria27	1001	1128	204	348	74	0	82	1	87	250	29	10	7	0	0
Maria30	1415	1598	291	543	130	0	141	1	140	364	41	31	7	0	3
Maria31	516	605	115	160	36	0	56	3	53	158	13	6	3	1	0
Maria40	208	232	30	92	10	1	14	0	18	52	3	1	2	0	0

Number of syllabic segments in **English** portions of Maria’s **code-switched speech**

	CV	CVC	V	VC	CCV	CCCV	VCC	VCCC	CCVC	CVCC	CCVCC	CVCCC	CCCVC	CCCVCC	CCVCCC
Maria1	55	80	15	16	6	0	6	0	5	19	3	2	0	0	0
Maria2	5	4	0	1	0	0	0	0	0	0	0	0	0	0	0
Maria4	13	13	3	5	3	0	2	0	1	1	0	1	0	0	0
Maria7	69	67	5	19	0	0	10	0	2	9	1	4	0	0	0
Maria10	41	43	5	15	9	0	5	0	1	7	0	6	0	0	0
Maria16	15	26	10	7	0	0	1	0	2	9	0	1	0	0	0
Maria18	129	106	19	31	9	1	12	0	12	32	2	3	0	0	0
Maria19	46	49	8	17	2	0	3	0	2	11	0	1	0	0	0
Maria20	62	71	17	21	5	0	6	0	3	16	4	0	0	0	0
Maria21	2	8	2	1	0	0	0	0	1	1	0	0	0	0	0
Maria24	49	47	9	16	7	0	5	0	5	10	1	0	0	0	0
Maria27	59	59	12	20	7	0	10	0	1	22	1	1	0	0	0
Maria30	2	5	1	3	0	0	0	0	0	1	0	0	0	0	0
Maria31	34	43	5	14	4	0	2	1	1	6	1	1	4	0	0
Maria40	57	76	8	15	7	0	3	0	10	21	3	0	0	0	0

Number of syllabic segments in **Spanish** portions of Maria's **unilingual speech**

	CV	CVC	V	VC	CCV	CCCV	VCC	VCCC	CCVC	CVCC	CCVCC	CVCCC	CCVC	CCCVCC	CCVCCC
Maria1	336	66	47	31	28	0	0	0	18	0	0	0	0	0	0
Maria2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maria4	78	30	11	3	9	0	1	0	4	0	0	0	0	0	0
Maria7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maria10	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0
Maria16	363	71	32	43	30	0	0	0	15	0	0	0	0	0	0
Maria18	217	47	33	24	19	0	0	0	8	0	0	0	0	0	0
Maria19	137	45	19	22	14	0	0	0	7	0	0	0	0	0	0
Maria20	180	74	26	29	16	0	0	0	12	0	0	0	0	0	0
Maria21	499	150	68	73	54	0	0	0	36	0	0	0	0	0	0
Maria24	128	47	25	12	14	0	0	0	4	0	0	0	0	0	0
Maria27	295	65	36	35	22	0	0	0	12	1	0	0	0	0	0
Maria30	6	1	6	1	2	0	0	0	0	0	0	0	0	0	0
Maria31	566	144	75	72	52	0	0	0	42	1	0	0	0	0	0
Maria40	3275	937	459	451	289	1	0	0	152	5	0	0	0	0	0

Number of syllabic segments in **Spanish** portions of Maria's **code-switched speech**

	CV	CVC	V	VC	CCV	CCCV	VCC	VCCC	CCVC	CVCC	CCVCC	CVCCC	CCVC	CCCVCC	CCVCCC
Maria1	132	32	23	18	15	0	0	0	4	0	0	0	0	0	0
Maria2	15	3	0	2	0	0	0	0	1	0	0	0	0	0	0
Maria4	43	14	6	4	5	0	0	0	1	0	0	0	0	0	0
Maria7	89	27	9	13	5	0	0	0	5	1	0	0	0	0	0
Maria10	87	30	15	11	12	0	0	0	6	0	0	0	0	0	0
Maria16	44	16	4	4	1	0	0	0	0	0	0	0	0	0	0
Maria18	164	47	30	22	21	0	1	0	8	0	1	0	0	0	0
Maria19	92	24	17	17	9	0	0	0	2	0	0	0	0	0	0
Maria20	130	30	19	16	15	0	0	0	5	0	0	0	0	0	0
Maria21	18	4	4	5	3	0	0	0	0	0	0	0	0	0	0
Maria24	126	34	20	12	6	0	0	0	3	0	0	0	0	0	0
Maria27	148	44	25	26	12	0	0	0	7	0	0	0	0	0	0
Maria30	5	1	1	2	1	0	0	0	0	0	0	0	0	0	0
Maria31	97	23	11	16	8	0	0	0	3	0	1	0	0	0	0
Maria40	271	73	21	44	19	0	0	0	8	1	0	0	0	0	0