

Appendix C: Statistical results – model outputs

Bolded data are significant at $p < 0.05$.

Predictor	Estimate (β)	t	p
(Intercept)	76.922	23.552	< 0.0001
COND	-0.562	-0.423	0.6764
PROD	-0.390	-0.504	0.6165
TYPE (Lax)	-7.447	-2.358	0.0200
TYPE (Tense)	-53.329	-15.359	< 0.0001
SEX	-0.412	-0.131	0.8969
EXP	-2.495	-0.920	0.3597
REST	-0.021	-7.635	< 0.0001
COND: PROD	2.949	4.014	< 0.0001
COND: TYPE (Lax)	0.513	0.570	0.5685
COND: TYPE (Tense)	0.576	0.639	0.5227
PROD: TYPE (Lax)	1.750	1.940	0.0524
PROD: TYPE (Tense)	-0.066	-0.073	0.9420
TYPE (Lax): SEX	-8.118	-3.778	0.0013
TYPE (Tense): SEX	1.368	0.472	0.6420
COND: PROD: TYPE (Lax)	-2.951	-2.319	0.0204
COND: PROD: TYPE (Tense)	-2.743	-2.155	0.0312

Table C.1. Results from the stop VOT model for baseline-test comparisons: The reference category for COND is high f0, for PROD is baseline, for TYPE is aspirated, for SEX is female, and for EXP is unheard.

Predictor	Estimate (β)	<i>t</i>	<i>p</i>
(Intercept)	17.240	42.658	< 0.0001
COND	-0.818	-4.018	0.0006
PROD	0.363	3.550	0.0015
TYPE (Sonorant)	-5.344	-16.051	< 0.0001
TYPE (Lax)	-5.044	-14.460	< 0.0001
TYPE (Tense)	-1.144	-6.616	< 0.0001
SEX	-12.880	-19.773	< 0.0001
EXP	-0.010	-0.096	0.9235
COND: PROD	0.299	5.238	< 0.0001
COND: TYPE (Sonorant)	0.414	6.950	< 0.0001
COND: TYPE (Lax)	0.409	5.603	< 0.0001
COND: TYPE (Tense)	0.086	1.180	0.2381
PROD: TYPE (Sonorant)	-0.253	-4.248	< 0.0001
PROD: TYPE (Lax)	-0.120	-1.647	0.0997
PROD: TYPE (Tense)	-0.130	-1.778	0.0754
PROD: SEX	0.009	0.054	0.9577
TYPE (Sonorant): SEX	1.807	3.553	0.0021
TYPE (Lax): SEX	1.959	3.728	0.0014
TYPE (Tense): SEX	0.217	1.132	0.2686
COND: SEX	0.793	2.396	0.0264
COND: PROD: TYPE (Sonorant)	-0.266	-3.597	0.0003
COND: PROD: TYPE (Lax)	-0.200	-2.210	0.0272
COND: PROD: TYPE (Tense)	-0.100	-1.108	0.2681
PROD: TYPE (Sonorant): SEX	-0.047	-0.612	0.5408
PROD: TYPE (Lax): SEX	-0.227	-2.420	0.0155
PROD: TYPE (Tense): SEX	0.086	0.916	0.3596
COND: TYPE (Sonorant): SEX	-0.607	-7.929	< 0.0001
COND: TYPE (Lax): SEX	-0.774	-8.255	< 0.0001
COND: TYPE (Tense): SEX	-0.174	-1.855	0.0636
COND: PROD: SEX	0.234	3.738	0.0002

Table C.2. Results from the post-onset f0 model for baseline-test comparisons: The reference category for COND is high f0, for PROD is baseline, for SEX is female, for TYPE is aspirated, and for EXP is unheard.

Predictor	Estimate (β)	<i>t</i>	<i>p</i>
(Intercept)	17.168	44.083	< 0.0001
COND	-0.782	-2.874	0.0095
PROD	0.399	3.190	0.0042
SEX	-12.734	-20.403	< 0.0001
EXP	0.037	0.350	0.7274
COND: PROD	0.221	3.206	0.0014
COND: SEX	0.697	1.556	0.1356
PROD: SEX	-0.089	-0.433	0.6693
COND: PROD: SEX	0.445	3.903	< 0.0001

Table C.3. Model result for baseline-test comparisons of the post-/t^h/ f0: The reference category for COND is high f0, for PROD is baseline, for SEX is female, and for EXP is unheard.

Predictor	Estimate (β)	<i>t</i>	<i>p</i>
(Intercept)	16.105	42.059	< 0.0001
COND	-0.747	-3.367	0.0029
PROD	0.223	1.480	0.1515
SEX	-12.672	-20.863	< 0.0001
COND: PROD	0.224	2.060	0.0396
COND: SEX	0.663	1.813	0.0839
PROD: SEX	0.128	0.516	0.6102
COND: PROD: SEX	0.163	0.910	0.3629

Table C.4. Model result for baseline-test comparisons of the post-/t^{*}/ f0: The reference category for COND is high f0, for PROD is baseline, and for SEX is female.

Predictor	Estimate (β)	<i>t</i>	<i>p</i>
(Intercept)	12.219	35.807	< 0.0001
COND	-0.432	-2.234	0.0368
PROD	-0.224	-1.824	0.0684
SEX	-10.965	-20.366	< 0.0001
COND: PROD	0.136	1.032	0.3146
COND: SEX	0.079	0.226	0.8238
PROD: SEX	-0.172	-1.062	0.3016
COND: PROD: SEX	0.140	0.650	0.5237

Table C.5. Model result for baseline-test comparisons of the post-/t/ f0: The reference category for COND is high f0, for PROD is baseline, and for SEX is female.

Predictor	Estimate (β)	<i>t</i>	<i>p</i>
(Intercept)	11.936	39.157	< 0.0001
COND	-0.443	-2.386	0.0271
PROD	0.085	0.949	0.3525
SEX	-11.183	-23.128	< 0.0001
COND: PROD	0.081	1.566	0.1173
COND: SEX	0.296	0.969	0.3444
PROD: SEX	0.030	0.204	0.8401
COND: PROD: SEX	0.104	1.215	0.2246

Table C.6. Model result for baseline-test comparisons of the post-sonorant f0: The reference category for COND is high f0, for PROD is baseline, and for SEX is female.

Predictor	Estimate (β)	<i>t</i>	<i>p</i>
(Intercept)	62.325	16.491	< 0.0001
COND	6.297	10.741	< 0.0001
SEX	2.391	0.549	0.5896
REST	-0.021	-3.434	0.0006
COND: SEX	-2.464	-2.550	0.0108

Table C.7. Results from the stop VOT model for shadowing productions: The reference category for COND is high f0, and for SEX is female.

Predictor	Estimate (β)	<i>t</i>	<i>p</i>
(Intercept)	17.320	37.606	< 0.0001
COND	-0.669	-2.641	0.0159
TYPE	-5.199	-17.286	< 0.0001
SEX	-12.467	-16.714	< 0.0001
COND: TYPE	0.292	5.790	< 0.0001
COND: SEX	0.794	1.903	0.0720
TYPE: SEX	1.340	2.946	0.0082
COND: TYPE: SEX	-0.444	-5.436	< 0.0001

Table C.8. Results from the post-onset f0 model for shadowing productions: The reference category for COND is high f0, for TYPE is aspirated, and for SEX is female.