

S1. Summary of token means of JVC durations, TT movement onset latencies and TT phase angles for each talker and each utterance.

Rate/stress	SS			SU			FS			FU			Utterance <i>M</i>		
	JVC	TT Lat	TT PhA	JVC	TT Lat	TT PhA	JVC	TT Lat	TT PhA	JVC	TT Lat	TT PhA	JVC	TT Lat	TT PhA
Talker 1															
/adad/	434	182	169	284	112	140	321	136	148	194	72	112	308	126	142
/atad/	438	213	173	278	114	141	294	124	152	191	75	127	300	132	148
/edat/	367	141	150	283	113	132	300	117	131	181	63	117	283	109	133
/etad/	379	151	146	304	120	133	301	123	135	224	97	137	302	123	138
Rate/stress <i>M</i>	405	172	160	287	115	137	304	125	142	198	77	123	298	122	140
Talker 2															
/adad/	451	325	226	287	113	161	320	212	204	185	64	121	311	179	178
/atad/	425	285	225	250	94	151	307	189	207	187	66	139	292	159	181
/edat/	353	198	187	259	105	156	254	128	140	187	72	134	263	126	154
/etad/	328	165	180	250	97	157	259	122	163	192	59	113	257	111	153
Rate/stress <i>M</i>	389	243	205	262	102	156	285	163	179	188	65	127	281	143	167
Talker 3															
/adad/	441	277	189	277	109	168	309	180	187	191	81	162	305	162	177
/atad/	442	266	191	241	98	168	303	168	186	180	69	150	292	150	174
/edat/	385	222	187	260	103	169	266	145	175	191	83	164	276	138	174
/etad/	379	210	185	253	107	173	267	135	172	190	77	152	272	132	171
Rate/stress <i>M</i>	412	244	188	258	104	170	286	157	180	188	78	157	286	146	174
Talker 4															
/adad/	421	265	218	251	76	144	278	144	171	189	61	135	285	137	167
/atad/	417	215	195	235	67	136	272	118	163	186	52	134	278	113	157
/edat/	357	193	189	258	79	144	246	114	151	173	48	136	259	109	155
/etad/	329	150	175	240	76	144	241	99	150	198	61	135	252	97	151
Rate/stress <i>M</i>	381	206	194	246	75	142	259	119	159	187	56	135	268	114	158
Talker 5															
/adad/	423	300	229	273	106	172	270	187	229	145	73	179	278	167	202
/atad/	415	273	233	242	98	188	278	178	243	151	68	165	272	154	207
/edat/	356	231	218	238	105	186	235	152	207	149	77	172	245	141	196
/etad/	351	216	233	233	95	180	253	156	228	160	81	202	249	137	211
Rate/stress <i>M</i>	386	255	228	247	101	182	259	168	227	151	75	180	261	150	204
Talker 6															
/adad/	452	358	227	228	81	118	320	215	196	175	75	111	294	182	163
/atad/	435	297	203	223	66	107	311	187	187	174	52	93	286	151	148
/edat/	358	251	222	223	68	96	269	175	197	169	52	82	255	137	149
/etad/	362	242	207	239	84	123	280	154	178	178	49	78	265	132	147
Rate/stress <i>M</i>	402	287	215	228	75	111	295	183	190	174	57	91	275	150	152
Talker 7															
/adad/	358	232	203	202	70	155	240	163	212	127	65	157	232	133	182
/atad/	353	208	186	184	73	151	237	149	203	136	61	164	228	123	176
/edat/	294	176	200	198	74	158	189	119	182	126	57	137	202	107	169
/etad/	289	129	180	189	83	162	212	118	194	135	60	163	206	98	175
Rate/stress <i>M</i>	324	186	192	193	75	157	220	137	198	131	61	155	217	115	175
Talker 8															
/adad/	439	294	213	256	92	164	302	189	190	172	55	155	292	158	181
/atad/	426	266	216	238	89	171	310	166	183	175	55	160	287	144	183
/edat/	380	235	214	255	80	167	274	158	189	166	52	153	269	131	181
/etad/	380	229	207	255	100	172	277	131	175	183	59	153	274	130	177
Rate/stress <i>M</i>	406	256	213	251	90	169	291	161	184	174	55	155	281	141	180
Talker 9															
/adad/	352	185	182	224	72	144	259	90	150	152	50	147	247	99	156
/atad/	339	179	186	209	67	149	248	84	152	160	51	151	239	95	160
/edat/	322	179	184	217	70	144	224	96	159	153	47	133	229	98	155
/etad/	286	122	172	231	79	157	234	71	150	169	56	149	230	82	157
Rate/stress <i>M</i>	325	166	181	220	72	149	241	85	153	159	51	145	236	94	157
Talker 10															
/adad/	356	241	193	233	81	136	249	148	177	155	57	133	248	132	160
/atad/	351	173	178	227	75	147	245	115	170	166	55	142	247	105	159
/edat/	319	187	190	220	75	135	214	119	168	158	59	138	228	110	158
/etad/	305	154	185	225	79	157	217	98	175	173	59	150	230	98	167
Rate/stress <i>M</i>	333	189	187	226	78	144	231	120	173	163	58	141	238	111	161

Table S1. Token means of JVC durations (ms), TT movement onset latencies (ms), and TT phase angles (PhA; Φ) for each talker and each utterance and rate/stress condition (SS = slow/stressed; SU = slow/unstressed; FS = fast/stressed; FU = fast/unstressed).

S2. Main effect of production rate on maximum jaw displacement

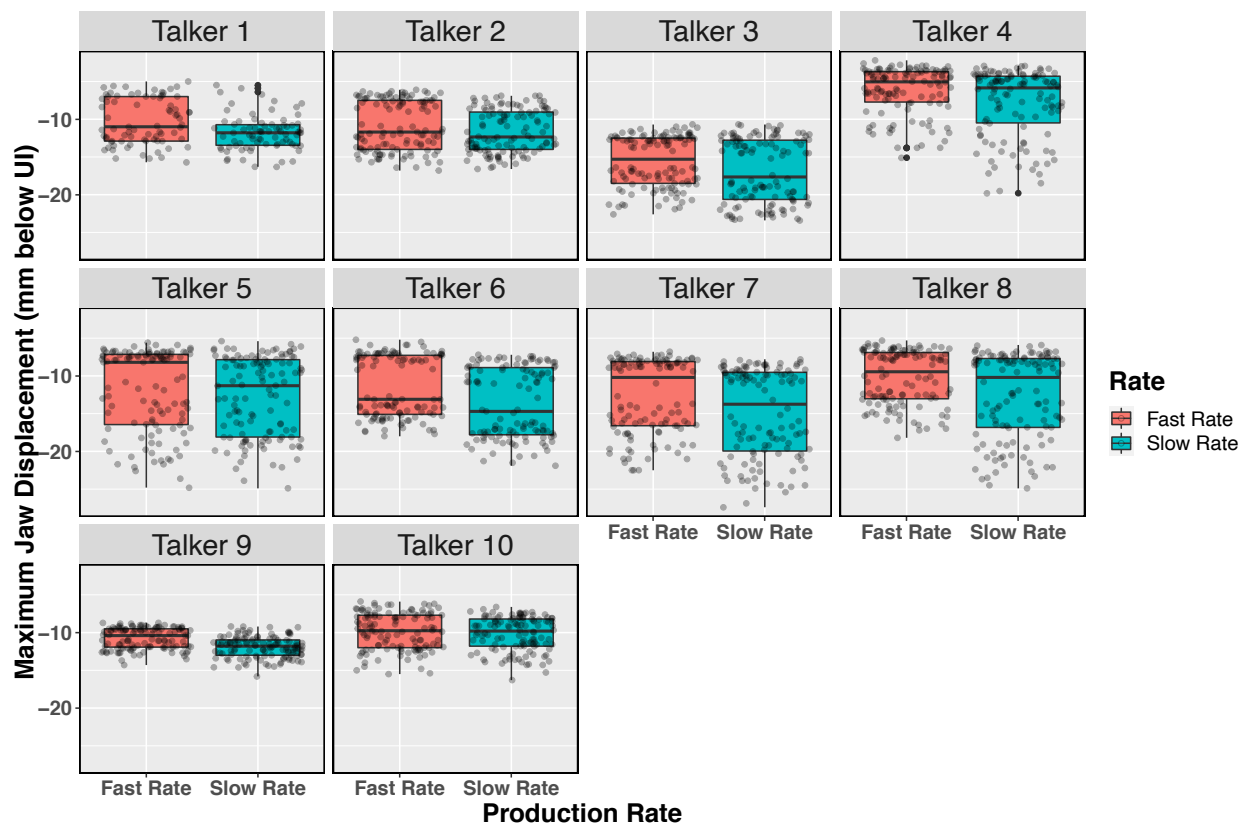


Figure S2: Boxplots (with transparent individual data points) showing maximum vertical jaw displacement/lowering (mm from the upper incisor [UI] reference sensor) as a function of production rate (fast vs. slow) and talker (1-10). Note that negative values indicate vertical displacements below the UI reference sensor.

S3. Main effect of production rate on jaw vowel-cycle duration

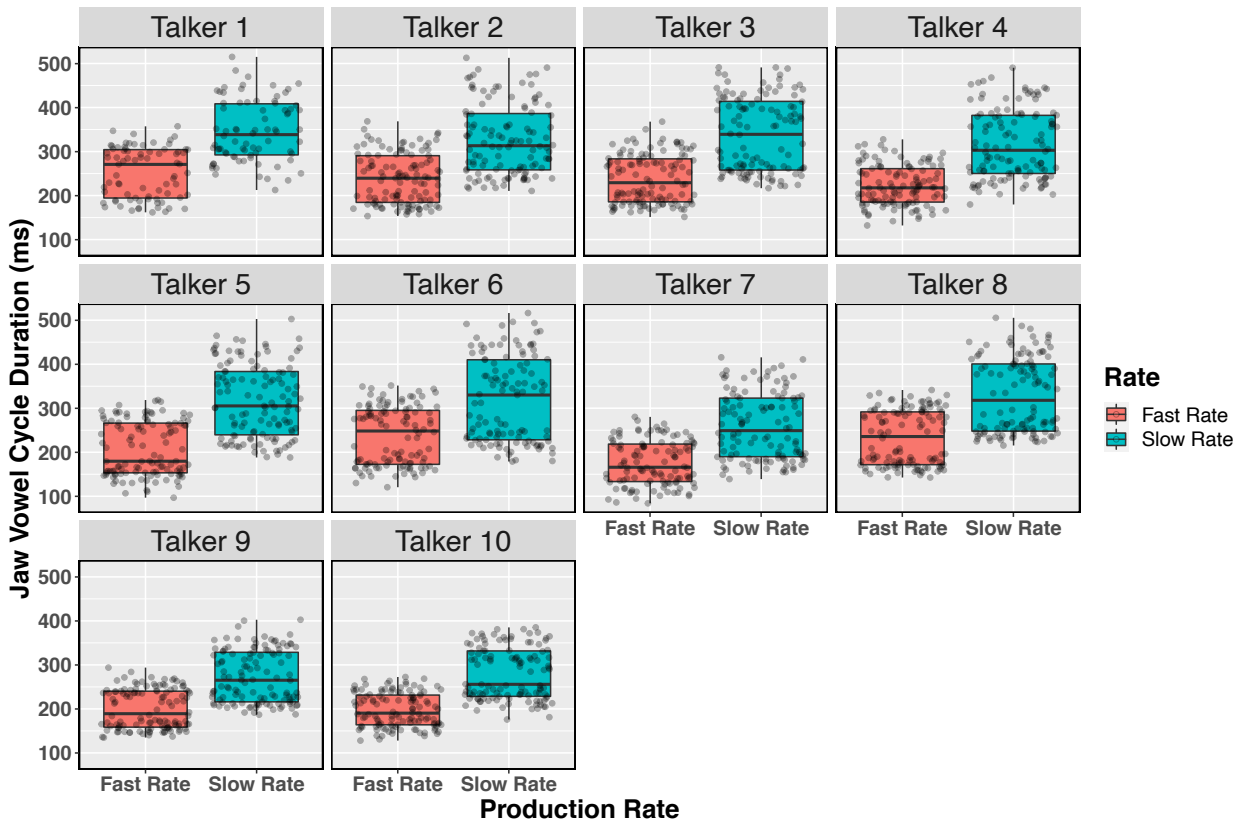


Figure S3: Boxplots (with transparent individual data points) showing jaw vowel-cycle duration (ms) as a function of production rate (fast vs. slow) and talker (1-10).

S4. Main effect of stress pattern on maximum jaw displacement

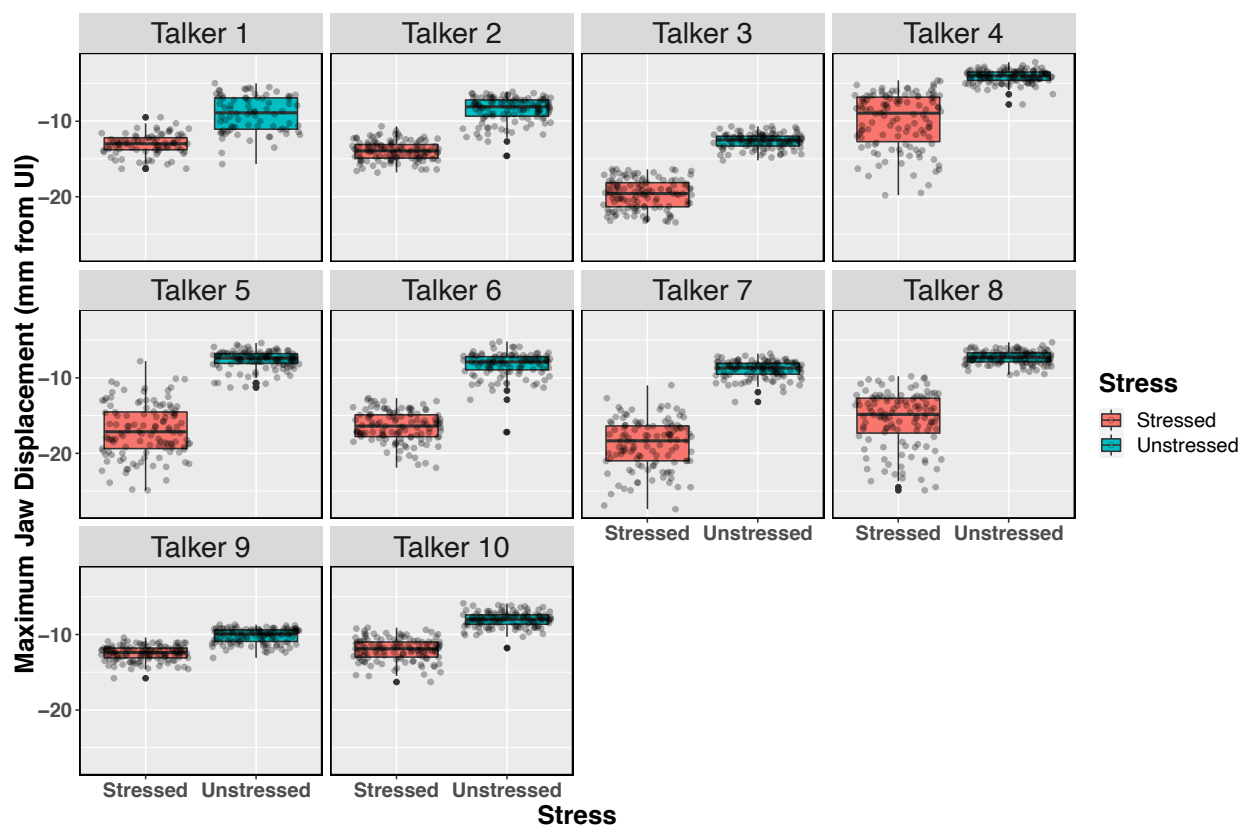


Figure S4: Boxplots (with transparent individual data points) showing maximum vertical jaw displacement/lowering (mm from the upper incisor [UI] reference sensor) as a function of stress pattern (stressed vs. unstressed) and talker (1-10). Note that negative values indicate vertical displacements below the UI reference sensor.

S5. Main effect of stress pattern on jaw vowel-cycle duration

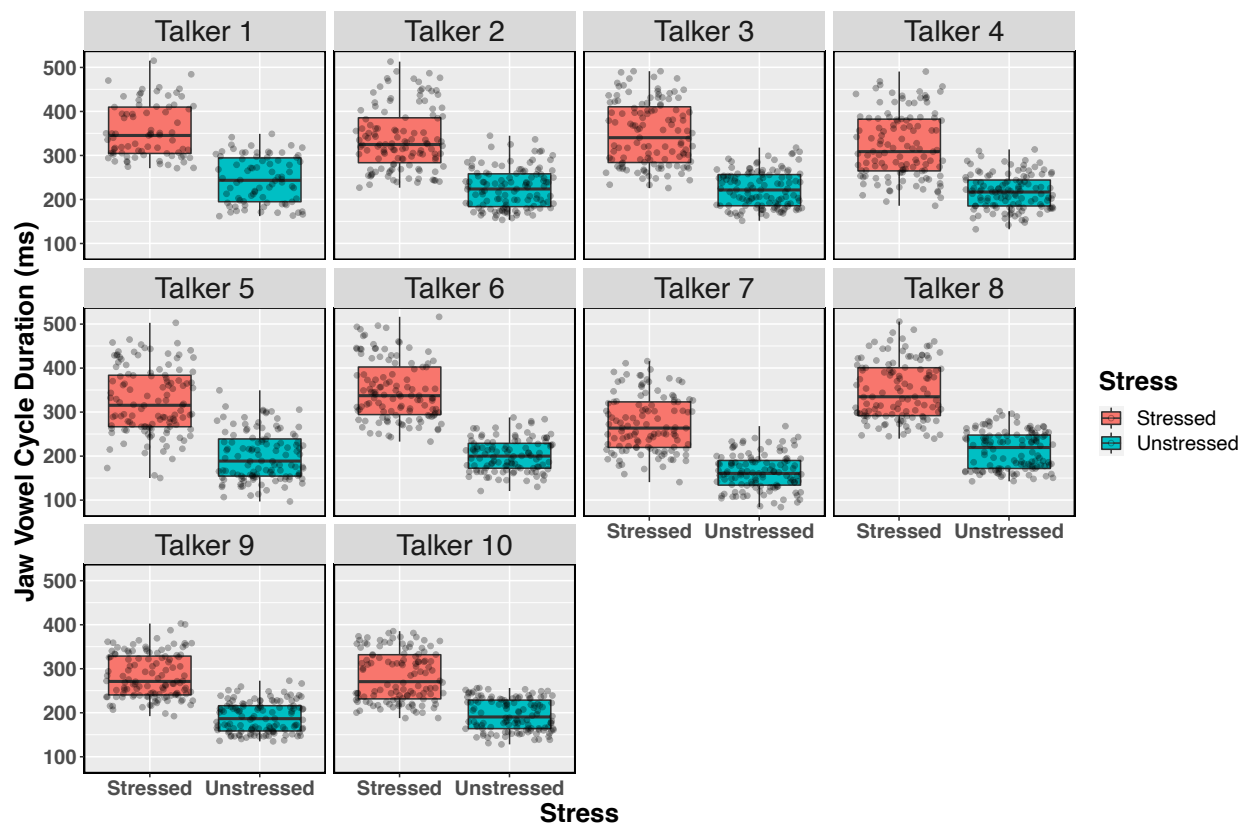


Figure S5: Boxplots (with transparent individual data points) showing jaw vowel-cycle duration (ms) as a function of stress pattern (stressed vs. unstressed) and talker (1-10).

S6. Main effect of vowel quality on maximum jaw displacement

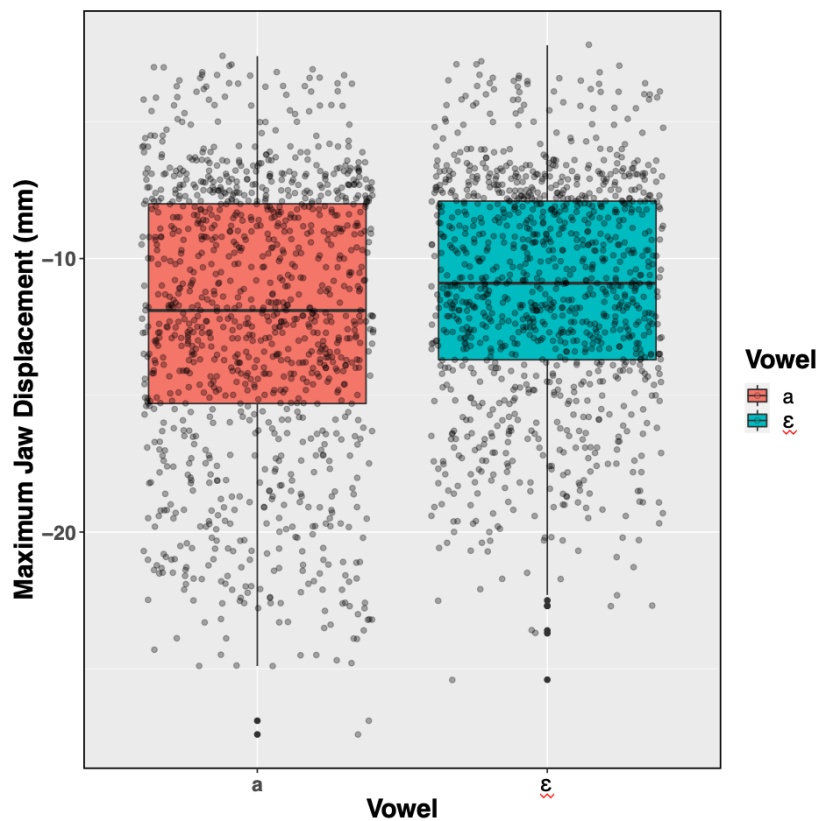


Figure S6: Boxplots (with transparent individual data points) showing maximum vertical jaw displacement/lowering (mm from the upper incisor [UI] reference sensor) as a function of vowel (/a/ vs. /ε/) and talker (1-10). Note that negative values indicate vertical displacements below the UI reference sensor.

S7. Main effect of vowel quality on jaw vowel-cycle duration

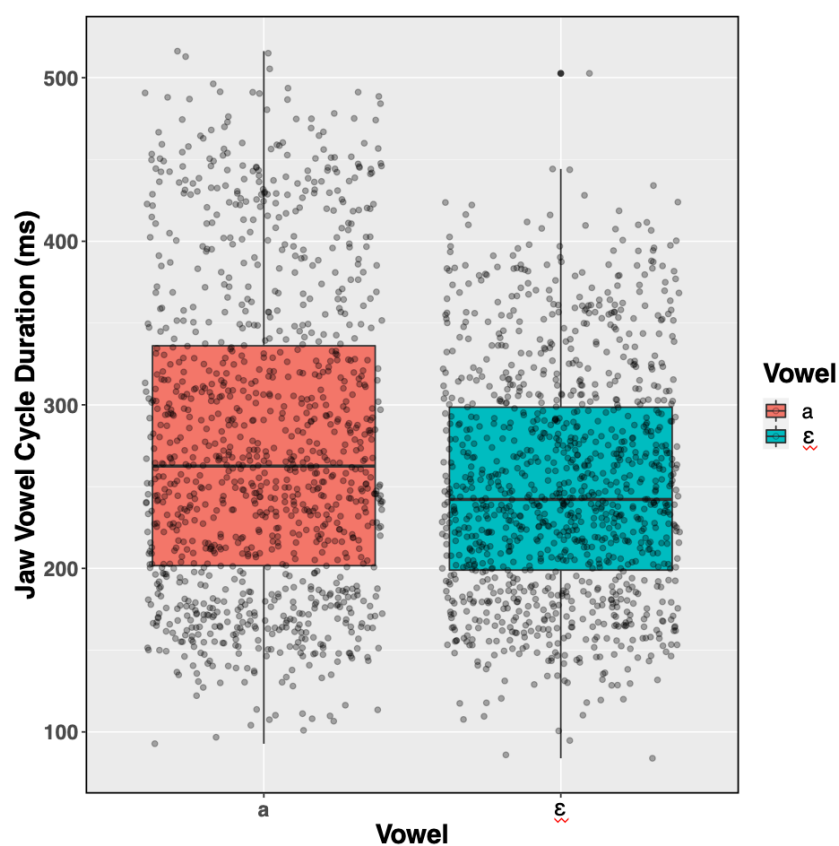


Figure S7: Boxplots (with transparent individual data points) showing jaw vowel-cycle duration (ms) as a function of vowel (/a/ vs. /ε/) and talker (1-10).

S8. Main effect of medial consonant on maximum jaw displacement

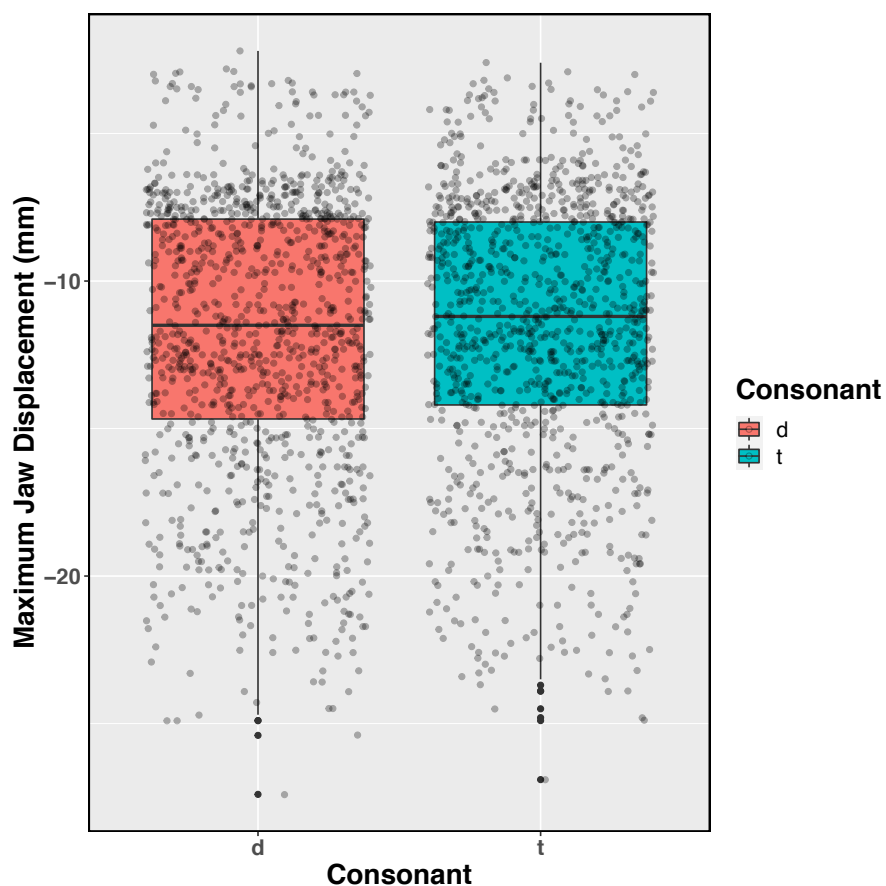


Figure S8: Boxplots (with transparent individual data points) showing maximum vertical jaw displacement/lowering (mm from the upper incisor [UI] reference sensor) as a function of medial consonant (t/ vs. /d/) and talker (1-10). Note that negative values indicate vertical displacements below the UI reference sensor.

S9. Main effect of medial consonant on jaw vowel-cycle duration

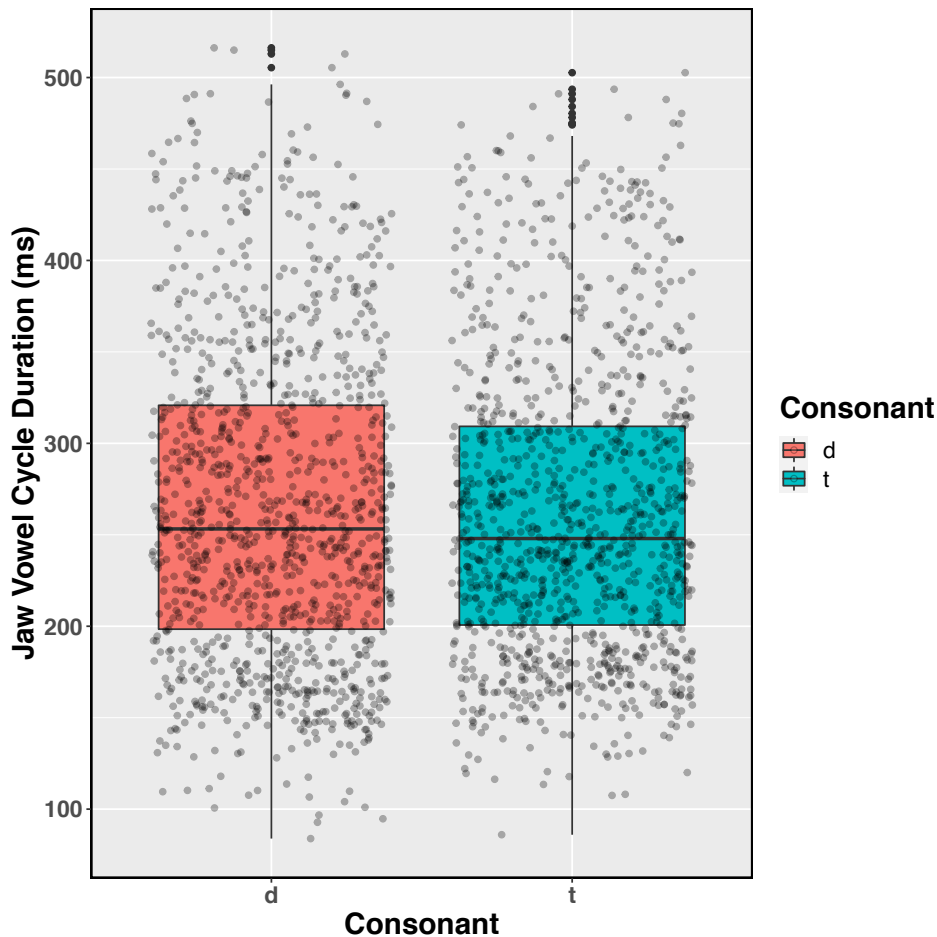


Figure S9: Boxplots (with transparent individual data points) showing jaw vowel-cycle duration (ms) as a function of medial consonant (/t/ vs. /d/) and talker (1-10).

S10. ANOVA results for JVC Duration

Talker 1

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	550.202	1	< .001	0.798
Stress	762.331	1	< .001	0.846
Vowel	8.347	1	0.004	0.057
Consonant	2.033	1	0.156	0.014
Rate × Stress	1.759	1	0.187	0.012
Rate × Vowel	10.579	1	0.001	0.071
Rate × Consonant	0.275	1	0.601	0.002
Stress × Vowel	32.250	1	< .001	0.188
Stress × Consonant	4.002	1	0.047	0.028
Vowel × Consonant	11.348	1	0.001	0.075
Rate × Stress × Vowel	12.949	1	< .001	0.085
Rate × Stress × Consonant	4.040	1	0.046	0.028
Rate × Vowel × Consonant	1.398	1	0.239	0.010
Stress × Vowel × Consonant	1.345	1	0.248	0.010
Rate × Stress × Vowel × Consonant	< .001	1	0.991	< .001

Talker 2

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	779.329	1	< .001	0.782
Stress	1248.189	1	< .001	0.852
Vowel	167.010	1	< .001	0.435
Consonant	14.320	1	< .001	0.062
Rate × Stress	22.533	1	< .001	0.094
Rate × Vowel	20.648	1	< .001	0.087
Rate × Consonant	13.921	1	< .001	0.060
Stress × Vowel	129.038	1	< .001	0.373
Stress × Consonant	0.606	1	0.437	0.003
Vowel × Consonant	3.964	1	0.048	0.018
Rate × Stress × Vowel	3.248	1	0.073	0.015
Rate × Stress × Consonant	0.212	1	0.645	0.001
Rate × Vowel × Consonant	0.051	1	0.821	< .001
Stress × Vowel × Consonant	0.191	1	0.662	0.001
Rate × Stress × Vowel × Consonant	2.718	1	0.101	0.012

Talker 3

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	1226.284	1	< .001	0.848
Stress	2030.347	1	< .001	0.902
Vowel	74.731	1	< .001	0.254
Consonant	8.748	1	0.003	0.038
Rate × Stress	100.142	1	< .001	0.313
Rate × Vowel	5.667	1	0.018	0.025
Rate × Consonant	1.847	1	0.175	0.008
Stress × Vowel	81.688	1	< .001	0.271
Stress × Consonant	4.123	1	0.044	0.018
Vowel × Consonant	3.054	1	0.082	0.014
Rate × Stress × Vowel	1.045	1	0.308	0.005
Rate × Stress × Consonant	2.075	1	0.151	0.009
Rate × Vowel × Consonant	0.010	1	0.919	< .001
Stress × Vowel × Consonant	3.045	1	0.082	0.014
Rate × Stress × Vowel × Consonant	2.046	1	0.154	0.009

Talker 4

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	653.591	1	< .001	0.748
Stress	836.399	1	< .001	0.792
Vowel	48.306	1	< .001	0.180
Consonant	2.883	1	0.091	0.013
Rate × Stress	73.273	1	< .001	0.250
Rate × Vowel	5.305	1	0.022	0.024
Rate × Consonant	6.349	1	0.012	0.028
Stress × Vowel	62.841	1	< .001	0.222
Stress × Consonant	1.327	1	0.251	0.006
Vowel × Consonant	0.081	1	0.777	< .001
Rate × Stress × Vowel	14.271	1	< .001	0.061
Rate × Stress × Consonant	1.091	1	0.297	0.005
Rate × Vowel × Consonant	2.888	1	0.091	0.013
Stress × Vowel × Consonant	3.068	1	0.081	0.014
Rate × Stress × Vowel × Consonant	0.001	1	0.971	< .001

Talker 5

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	733.557	1	< .001	0.771
Stress	912.010	1	< .001	0.807
Vowel	45.370	1	< .001	0.172
Consonant	0.044	1	0.834	< .001
Rate × Stress	15.160	1	< .001	0.065
Rate × Vowel	15.042	1	< .001	0.065
Rate × Consonant	7.757	1	0.006	0.034
Stress × Vowel	23.499	1	< .001	0.097
Stress × Consonant	0.964	1	0.327	0.004
Vowel × Consonant	1.955	1	0.164	0.009
Rate × Stress × Vowel	0.191	1	0.662	0.001
Rate × Stress × Consonant	0.175	1	0.676	0.001
Rate × Vowel × Consonant	0.217	1	0.642	0.001
Stress × Vowel × Consonant	0.250	1	0.618	0.001
Rate × Stress × Vowel × Consonant	0.807	1	0.370	0.004

Talker 6

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	552.851	1	< .001	0.726
Stress	1859.192	1	< .001	0.899
Vowel	77.237	1	< .001	0.270
Consonant	0.130	1	0.719	0.001
Rate × Stress	59.580	1	< .001	0.222
Rate × Vowel	7.039	1	0.009	0.033
Rate × Consonant	0.301	1	0.584	0.001
Stress × Vowel	89.853	1	< .001	0.301
Stress × Consonant	1.196	1	0.275	0.006
Vowel × Consonant	7.010	1	0.009	0.032
Rate × Stress × Vowel	12.888	1	< .001	0.058
Rate × Stress × Consonant	0.478	1	0.490	0.002
Rate × Vowel × Consonant	0.184	1	0.669	0.001
Stress × Vowel × Consonant	0.131	1	0.718	0.001
Rate × Stress × Vowel × Consonant	0.130	1	0.718	0.001

Talker 7

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	633.285	1	< .001	0.746
Stress	1090.206	1	< .001	0.835
Vowel	59.423	1	< .001	0.216
Consonant	< .001	1	0.990	< .001
Rate × Stress	40.645	1	< .001	0.158
Rate × Vowel	3.387	1	0.067	0.015
Rate × Consonant	7.796	1	0.006	0.035
Stress × Vowel	58.583	1	< .001	0.213
Stress × Consonant	0.541	1	0.463	0.002
Vowel × Consonant	1.881	1	0.172	0.009
Rate × Stress × Vowel	4.322	1	0.039	0.020
Rate × Stress × Consonant	0.275	1	0.600	0.001
Rate × Vowel × Consonant	0.360	1	0.549	0.002
Stress × Vowel × Consonant	0.371	1	0.543	0.002
Rate × Stress × Vowel × Consonant	1.944	1	0.165	0.009

Talker 8

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	1181.903	1	< .001	0.841
Stress	2348.922	1	< .001	0.913
Vowel	43.499	1	< .001	0.162
Consonant	0.001	1	0.971	< .001
Rate × Stress	48.383	1	< .001	0.178
Rate × Vowel	1.811	1	0.180	0.008
Rate × Consonant	7.503	1	0.007	0.032
Stress × Vowel	67.156	1	< .001	0.231
Stress × Consonant	0.034	1	0.855	< .001
Vowel × Consonant	3.329	1	0.069	0.015
Rate × Stress × Vowel	6.648	1	0.011	0.029
Rate × Stress × Consonant	0.358	1	0.550	0.002
Rate × Vowel × Consonant	0.974	1	0.325	0.004
Stress × Vowel × Consonant	1.114	1	0.292	0.005
Rate × Stress × Vowel × Consonant	0.381	1	0.538	0.002

Talker 9

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	1074.929	1	< .001	0.828
Stress	1784.931	1	< .001	0.888
Vowel	36.078	1	< .001	0.139
Consonant	2.170	1	0.142	0.010
Rate × Stress	24.293	1	< .001	0.098
Rate × Vowel	2.503	1	0.115	0.011
Rate × Consonant	15.962	1	< .001	0.067
Stress × Vowel	79.213	1	< .001	0.261
Stress × Consonant	16.461	1	< .001	0.068
Vowel × Consonant	3.868	1	0.050	0.017
Rate × Stress × Vowel	4.407	1	0.037	0.019
Rate × Stress × Consonant	1.785	1	0.183	0.008
Rate × Vowel × Consonant	1.471	1	0.226	0.007
Stress × Vowel × Consonant	5.216	1	0.023	0.023
Rate × Stress × Vowel × Consonant	13.746	1	< .001	0.058

Talker 10

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp²</i>
Rate	1625.062	1	< .001	0.880
Stress	1831.848	1	< .001	0.892
Vowel	84.890	1	< .001	0.277
Consonant	0.092	1	0.761	< .001
Rate × Stress	87.082	1	< .001	0.282
Rate × Vowel	7.564	1	0.006	0.033
Rate × Consonant	7.315	1	0.007	0.032
Stress × Vowel	73.447	1	< .001	0.249
Stress × Consonant	7.160	1	0.008	0.031
Vowel × Consonant	0.637	1	0.426	0.003
Rate × Stress × Vowel	0.027	1	0.869	< .001
Rate × Stress × Consonant	0.238	1	0.626	0.001
Rate × Vowel × Consonant	0.390	1	0.533	0.002
Stress × Vowel × Consonant	0.954	1	0.330	0.004
Rate × Stress × Vowel × Consonant	1.837	1	0.077	0.008

S11. ANOVA results for Maximum Jaw Displacements

Talker 1

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	41.414	1	< .001	0.230
Stress	264.501	1	< .001	0.656
Vowel	16.321	1	< .001	0.105
Consonant	2.112	1	0.148	0.015
Rate × Stress	22.942	1	< .001	0.142
Rate × Vowel	0.032	1	0.859	<.001
Rate × Consonant	0.067	1	0.796	<.001
Stress × Vowel	1.396	1	0.239	0.010
Stress × Consonant	3.908	1	0.050	0.027
Vowel × Consonant	4.820	1	0.030	0.034
Rate × Stress × Vowel	0.925	1	0.338	0.007
Rate × Stress × Consonant	0.960	0	0.329	0.007
Rate × Vowel × Consonant	0.582	1	0.447	0.004
Stress × Vowel × Consonant	4.889	1	0.029	0.034
Rate × Stress × Vowel × Consonant	0.406	1	0.525	0.003

Talker 2

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	23.988	1	< .001	0.100
Stress	1086.636	1	< .001	0.834
Vowel	11.911	1	0.001	0.052
Consonant	9.359	1	0.002	0.041
Rate × Stress	11.554	1	0.001	0.051
Rate × Vowel	0.348	1	0.552	0.002
Rate × Consonant	1.045	1	0.310	0.005
Stress × Vowel	25.215	1	< .001	0.104
Stress × Consonant	4.513	1	0.034	0.021
Vowel × Consonant	0.002	1	0.961	< .001
Rate × Stress × Vowel	0.148	1	0.701	0.001
Rate × Stress × Consonant	0.331	1	0.566	0.002
Rate × Vowel × Consonant	1.123	1	0.291	0.005
Stress × Vowel × Consonant	8.196	1	0.005	0.036
Rate × Stress × Vowel × Consonant	0.095	1	0.759	< .001

Talker 3

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	84.840	1	< .001	0.278
Stress	2982.016	1	< .001	0.931
Vowel	71.346	1	< .001	0.245
Consonant	2.317	1	0.129	0.010
Rate × Stress	42.276	1	< .001	0.161
Rate × Vowel	0.213	1	0.645	0.001
Rate × Consonant	0.283	1	0.595	0.001
Stress × Vowel	127.810	1	< .001	0.367
Stress × Consonant	2.554	1	0.111	0.011
Vowel × Consonant	4.244	1	0.041	0.019
Rate × Stress × Vowel	0.055	1	0.815	< .001
Rate × Stress × Consonant	1.833	1	0.177	0.008
Rate × Vowel × Consonant	0.157	1	0.693	0.001
Stress × Vowel × Consonant	6.232	1	0.013	0.028
Rate × Stress × Vowel × Consonant	1.560	1	0.213	0.007

Talker 4

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	69.285	1	< .001	0.240
Stress	994.662	1	< .001	0.819
Vowel	229.290	1	< .001	0.510
Consonant	0.005	1	0.944	< .001
Rate × Stress	28.513	1	< .001	0.115
Rate × Vowel	11.696	1	0.001	0.050
Rate × Consonant	0.023	1	0.880	< .001
Stress × Vowel	232.222	1	< .001	0.514
Stress × Consonant	1.560	1	0.213	0.007
Vowel × Consonant	1.204	1	0.274	0.005
Rate × Stress × Vowel	12.620	1	< .001	0.054
Rate × Stress × Consonant	0.429	1	0.513	0.002
Rate × Vowel × Consonant	0.639	1	0.425	0.003
Stress × Vowel × Consonant	0.170	1	0.681	0.001
Rate × Stress × Vowel × Consonant	0.424	1	0.515	0.002

Talker 5

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	8.317	1	0.004	0.037
Stress	1043.994	1	< .001	0.827
Vowel	44.114	1	< .001	0.168
Consonant	< .001	1	0.987	< .001
Rate × Stress	0.096	1	0.757	< .001
Rate × Vowel	0.011	1	0.915	< .001
Rate × Consonant	0.137	1	0.711	0.001
Stress × Vowel	49.082	1	< .001	0.184
Stress × Consonant	0.097	1	0.756	< .001
Vowel × Consonant	0.018	1	0.894	< .001
Rate × Stress × Vowel	0.462	1	0.497	0.002
Rate × Stress × Consonant	0.550	1	0.459	0.003
Rate × Vowel × Consonant	1.433	1	0.233	0.007
Stress × Vowel × Consonant	0.873	1	0.351	0.004
Rate × Stress × Vowel × Consonant	0.553	1	0.458	0.003

Talker 6

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	155.068	1	< .001	0.426
Stress	2129.457	1	< .001	0.911
Vowel	15.519	1	< .001	0.069
Consonant	1.317	1	0.253	0.006
Rate × Stress	10.866	1	0.001	0.049
Rate × Vowel	0.327	1	0.568	0.002
Rate × Consonant	5.254	1	0.023	0.025
Stress × Vowel	22.549	1	< .001	0.097
Stress × Consonant	0.791	1	0.375	0.004
Vowel × Consonant	2.644	1	0.105	0.012
Rate × Stress × Vowel	1.264	1	0.262	0.006
Rate × Stress × Consonant	0.799	1	0.372	0.004
Rate × Vowel × Consonant	0.063	1	0.802	< .001
Stress × Vowel × Consonant	8.917	1	0.003	0.041
Rate × Stress × Vowel × Consonant	0.462	1	0.497	0.002

Talker 7

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	83.271	1	< .001	0.278
Stress	1732.283	1	< .001	0.889
Vowel	39.682	1	< .001	0.155
Consonant	1.273	1	0.260	0.006
Rate × Stress	11.017	1	0.001	0.049
Rate × Vowel	1.141	1	0.287	0.005
Rate × Consonant	0.806	1	0.370	0.004
Stress × Vowel	47.961	1	< .001	0.182
Stress × Consonant	5.519	1	0.020	0.025
Vowel × Consonant	0.427	1	0.514	0.002
Rate × Stress × Vowel	0.230	1	0.632	0.001
Rate × Stress × Consonant	0.725	1	0.396	0.003
Rate × Vowel × Consonant	0.042	1	0.838	< .001
Stress × Vowel × Consonant	0.194	1	0.660	0.001
Rate × Stress × Vowel × Consonant	0.079	1	0.779	< .001

Talker 8

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	89.615	1	< .001	0.286
Stress	957.641	1	< .001	0.810
Vowel	12.006	1	0.001	0.051
Consonant	0.951	1	0.331	0.004
Rate × Stress	42.990	1	< .001	0.161
Rate × Vowel	0.301	1	0.584	0.001
Rate × Consonant	0.454	1	0.501	0.002
Stress × Vowel	18.106	1	< .001	0.075
Stress × Consonant	0.639	1	0.425	0.003
Vowel × Consonant	6.090	1	0.014	0.026
Rate × Stress × Vowel	0.224	1	0.636	0.001
Rate × Stress × Consonant	0.117	1	0.733	0.001
Rate × Vowel × Consonant	0.867	1	0.353	0.004
Stress × Vowel × Consonant	1.239	1	0.267	0.006
Rate × Stress × Vowel × Consonant	0.629	1	0.428	0.003

Talker 9

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	197.437	1	< .001	0.468
Stress	750.984	1	< .001	0.770
Vowel	21.721	1	< .001	0.088
Consonant	0.011	1	0.917	< .001
Rate × Stress	6.108	1	0.014	0.027
Rate × Vowel	0.011	1	0.917	< .001
Rate × Consonant	1.749	1	0.187	0.008
Stress × Vowel	68.332	1	< .001	0.234
Stress × Consonant	2.720	1	0.100	0.012
Vowel × Consonant	4.024	1	0.046	0.018
Rate × Stress × Vowel	0.011	1	0.917	< .001
Rate × Stress × Consonant	0.589	1	0.443	0.003
Rate × Vowel × Consonant	0.177	1	0.674	0.001
Stress × Vowel × Consonant	1.965	1	0.162	0.009
Rate × Stress × Vowel × Consonant	9.644	1	0.002	0.041

Talker 10

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp²</i>
Rate	6.722	1	0.010	0.029
Stress	871.917	1	< .001	0.797
Vowel	28.702	1	< .001	0.114
Consonant	25.466	1	< .001	0.103
Rate × Stress	4.043	1	0.046	0.018
Rate × Vowel	0.175	1	0.676	0.001
Rate × Consonant	2.512	1	0.114	0.011
Stress × Vowel	50.399	1	< .001	0.185
Stress × Consonant	11.930	1	0.001	0.051
Vowel × Consonant	0.003	1	0.957	< .001
Rate × Stress × Vowel	0.102	1	0.750	< .001
Rate × Stress × Consonant	0.348	1	0.556	0.002
Rate × Vowel × Consonant	0.336	1	0.563	0.002
Stress × Vowel × Consonant	4.246	1	0.041	0.019
Rate × Stress × Vowel × Consonant	0.043	1	0.836	< .001

S12. ANOVA results for TT Movement Onset Latencies

Talker 1

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	136.697	1	< .001	0.496
Stress	211.930	1	< .001	0.604
Vowel	13.147	1	< .001	0.086
Consonant	7.586	1	0.007	0.052
Rate × Stress	1.557	1	0.214	0.011
Rate × Vowel	9.764	1	0.002	0.066
Rate × Consonant	0.415	1	0.520	0.003
Stress × Vowel	25.634	1	< .001	0.156
Stress × Consonant	0.140	1	0.709	0.001
Vowel × Consonant	1.423	1	0.235	0.010
Rate × Stress × Vowel	6.935	1	0.009	0.048
Rate × Stress × Consonant	6.786	1	0.010	0.047
Rate × Vowel × Consonant	5.043	1	0.026	0.035
Stress × Vowel × Consonant	1.929	1	0.167	0.014
Rate × Stress × Vowel × Consonant	0.223	1	0.637	0.002

Talker 2

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	244.209	1	< .001	0.529
Stress	999.414	1	< .001	0.822
Vowel	177.086	1	< .001	0.449
Consonant	21.304	1	< .001	0.089
Rate × Stress	33.216	1	< .001	0.133
Rate × Vowel	11.572	1	0.001	0.051
Rate × Consonant	4.171	1	0.042	0.019
Stress × Vowel	171.333	1	< .001	0.441
Stress × Consonant	4.805	1	0.029	0.022
Vowel × Consonant	0.545	1	0.461	0.003
Rate × Stress × Vowel	9.036	1	0.003	0.040
Rate × Stress × Consonant	0.917	1	0.339	0.004
Rate × Vowel × Consonant	0.290	1	0.591	0.001
Stress × Vowel × Consonant	0.875	1	0.251	0.004
Rate × Stress × Vowel × Consonant	1.493	1	0.223	0.007

Talker 3

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	526.883	1	< .001	0.705
Stress	1956.591	1	< .001	0.899
Vowel	70.383	1	< .001	0.242
Consonant	12.845	1	< .001	0.055
Rate × Stress	147.508	1	< .001	0.401
Rate × Vowel	6.577	1	0.011	0.029
Rate × Consonant	0.341	1	0.560	0.002
Stress × Vowel	94.393	1	< .001	0.300
Stress × Consonant	0.936	1	0.334	0.004
Vowel × Consonant	1.169	1	0.281	0.005
Rate × Stress × Vowel	3.405	1	0.066	0.015
Rate × Stress × Consonant	0.526	1	0.469	0.002
Rate × Vowel × Consonant	0.078	1	0.781	< .001
Stress × Vowel × Consonant	0.982	1	0.323	0.004
Rate × Stress × Vowel × Consonant	0.325	1	0.569	0.001

Talker 4

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	210.871	1	< .001	0.489
Stress	698.725	1	< .001	0.761
Vowel	34.259	1	< .001	0.135
Consonant	20.931	1	< .001	0.087
Rate × Stress	85.902	1	< .001	0.281
Rate × Vowel	4.895	1	0.028	0.022
Rate × Consonant	4.622	1	0.033	0.021
Stress × Vowel	43.582	1	< .001	0.165
Stress × Consonant	18.908	1	< .001	0.079
Vowel × Consonant	2.952	1	0.087	0.013
Rate × Stress × Vowel	12.200	1	0.001	0.053
Rate × Stress × Consonant	1.497	1	0.222	0.007
Rate × Vowel × Consonant	0.264	1	0.608	0.001
Stress × Vowel × Consonant	0.145	1	0.704	0.001
Rate × Stress × Vowel × Consonant	0.126	1	0.722	0.001

Talker 5

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	203.017	1	< .001	0.482
Stress	975.888	1	< .001	0.817
Vowel	28.159	1	< .001	0.114
Consonant	4.585	1	0.033	0.021
Rate × Stress	58.947	1	< .001	0.213
Rate × Vowel	8.026	1	0.005	0.036
Rate × Consonant	2.795	1	0.096	0.013
Stress × Vowel	38.331	1	< .001	0.150
Stress × Consonant	0.784	1	0.377	0.004
Vowel × Consonant	0.955	1	0.330	0.004
Rate × Stress × Vowel	2.299	1	0.131	0.010
Rate × Stress × Consonant	0.442	1	0.507	0.002
Rate × Vowel × Consonant	0.113	1	0.737	0.001
Stress × Vowel × Consonant	0.288	1	0.592	0.001
Rate × Stress × Vowel × Consonant	0.120	1	0.730	0.001

Talker 6

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	229.795	1	< .001	0.524
Stress	1777.984	1	< .001	0.895
Vowel	64.956	1	< .001	0.237
Consonant	20.090	1	< .001	0.088
Rate × Stress	116.106	1	< .001	0.357
Rate × Vowel	3.437	1	0.065	0.016
Rate × Consonant	0.044	1	0.834	< .001
Stress × Vowel	44.256	1	< .001	0.175
Stress × Consonant	8.615	1	0.004	0.040
Vowel × Consonant	11.680	1	0.001	0.053
Rate × Stress × Vowel	13.859	1	< .001	0.062
Rate × Stress × Consonant	2.259	1	0.134	0.011
Rate × Vowel × Consonant	3.266	1	0.072	0.015
Stress × Vowel × Consonant	0.057	1	0.811	< .001
Rate × Stress × Vowel × Consonant	1.176	1	0.279	0.006

Talker 7

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	102.706	1	< .001	0.322
Stress	910.335	1	< .001	0.808
Vowel	67.470	1	< .001	0.238
Consonant	9.051	1	0.003	0.040
Rate × Stress	30.735	1	< .001	0.125
Rate × Vowel	2.330	1	0.128	0.011
Rate × Consonant	3.223	1	0.074	0.015
Stress × Vowel	74.557	1	< .001	0.257
Stress × Consonant	15.862	1	< .001	0.068
Vowel × Consonant	0.021	1	0.886	< .001
Rate × Stress × Vowel	11.357	1	0.001	0.050
Rate × Stress × Consonant	7.720	1	0.006	0.035
Rate × Vowel × Consonant	2.578	1	0.110	0.012
Stress × Vowel × Consonant	0.734	1	0.392	0.003
Rate × Stress × Vowel × Consonant	1.799	1	0.181	0.008

Talker 8

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	522.298	1	< .001	0.700
Stress	2270.313	1	< .001	0.910
Vowel	51.410	1	< .001	0.187
Consonant	6.764	1	0.010	0.029
Rate × Stress	111.991	1	< .001	0.333
Rate × Vowel	2.128	1	0.146	0.009
Rate × Consonant	1.439	1	0.232	0.006
Stress × Vowel	50.582	1	< .001	0.184
Stress × Consonant	22.390	1	< .001	0.091
Vowel × Consonant	4.271	1	0.040	0.019
Rate × Stress × Vowel	1.574	1	0.211	0.007
Rate × Stress × Consonant	0.046	1	0.830	< .001
Rate × Vowel × Consonant	3.344	1	0.069	0.015
Stress × Vowel × Consonant	0.337	1	0.562	0.002
Rate × Stress × Vowel × Consonant	0.228	1	0.634	0.001

Talker 9

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	487.727	1	< .001	0.685
Stress	776.419	1	< .001	0.776
Vowel	9.755	1	0.002	0.042
Consonant	17.761	1	< .001	0.073
Rate × Stress	168.728	1	< .001	0.430
Rate × Vowel	7.017	1	0.009	0.030
Rate × Consonant	3.953	1	0.048	0.017
Stress × Vowel	20.245	1	< .001	0.083
Stress × Consonant	33.624	1	< .001	0.131
Vowel × Consonant	6.530	1	0.011	0.028
Rate × Stress × Vowel	11.680	1	0.001	0.050
Rate × Stress × Consonant	2.366	1	0.125	0.010
Rate × Vowel × Consonant	1.950	1	0.164	0.009
Stress × Vowel × Consonant	24.746	1	< .001	0.099
Rate × Stress × Vowel × Consonant	4.283	1	0.040	0.019

Talker 10

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	471.971	1	< .001	0.680
Stress	1827.271	1	< .001	0.892
Vowel	51.560	1	< .001	0.188
Consonant	97.393	1	< .001	0.305
Rate × Stress	146.764	1	< .001	0.398
Rate × Vowel	4.809	1	0.029	0.021
Rate × Consonant	8.417	1	0.004	0.037
Stress × Vowel	56.554	1	< .001	0.203
Stress × Consonant	86.400	1	< .001	0.280
Vowel × Consonant	12.995	1	< .001	0.055
Rate × Stress × Vowel	1.644	1	0.201	0.007
Rate × Stress × Consonant	8.498	1	0.004	0.037
Rate × Vowel × Consonant	4.009	1	0.046	0.018
Stress × Vowel × Consonant	4.865	1	0.028	0.021
Rate × Stress × Vowel × Consonant	0.936	1	0.334	0.004

S13. ANOVA results for TT Phase Angles.

Talker 1				
Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	26.130	1	< .001	0.158
Stress	43.353	1	< .001	0.238
Vowel	10.819	1	0.001	0.072
Consonant	3.337	1	0.070	0.023
Rate × Stress	0.678	1	0.412	0.005
Rate × Vowel	2.986	1	0.086	0.021
Rate × Consonant	2.470	1	0.118	0.017
Stress × Vowel	10.227	1	0.002	0.069
Stress × Consonant	1.263	1	0.263	0.009
Vowel × Consonant	0.028	1	0.867	< .001
Rate × Stress × Vowel	0.600	1	0.440	0.004
Rate × Stress × Consonant	1.036	1	0.311	0.007
Rate × Vowel × Consonant	0.372	1	0.543	0.003
Stress × Vowel × Consonant	0.257	1	0.613	0.002
Rate × Stress × Vowel × Consonant	0.019	1	0.891	< .001

Talker 2				
Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	88.672	1	< .001	0.290
Stress	292.334	1	< .001	0.574
Vowel	74.741	1	< .001	0.256
Consonant	0.028	1	0.867	< .001
Rate × Stress	0.431	1	0.512	0.002
Rate × Vowel	2.581	1	0.110	0.012
Rate × Consonant	3.058	1	0.085	0.014
Stress × Vowel	60.271	1	< .001	0.217
Stress × Consonant	1.550	1	0.214	0.007
Vowel × Consonant	0.415	1	0.520	0.002
Rate × Stress × Vowel	0.180	1	0.672	0.001
Rate × Stress × Consonant	1.450	1	0.230	0.007
Rate × Vowel × Consonant	1.093	1	0.297	0.005
Stress × Vowel × Consonant	3.191	1	0.075	0.014
Rate × Stress × Vowel × Consonant	10.396	1	0.001	0.046

Talker 3				
Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	69.120	1	< .001	0.239
Stress	271.353	1	< .001	0.552
Vowel	5.751	1	0.017	0.025
Consonant	5.250	1	0.023	0.023
Rate × Stress	3.161	1	0.077	0.014
Rate × Vowel	4.440	1	0.036	0.020
Rate × Consonant	9.951	1	0.002	0.043
Stress × Vowel	19.682	1	< .001	0.082
Stress × Consonant	3.089	1	0.080	0.014
Vowel × Consonant	0.019	1	0.889	< .001
Rate × Stress × Vowel	1.828	1	0.178	0.008
Rate × Stress × Consonant	6.119	1	0.014	0.027
Rate × Vowel × Consonant	0.013	1	0.908	< .001
Stress × Vowel × Consonant	1.062	1	0.304	0.005
Rate × Stress × Vowel × Consonant	0.272	1	0.603	0.001

Talker 4

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	68.343	1	< .001	0.237
Stress	211.022	1	< .001	0.490
Vowel	11.485	1	0.001	0.050
Consonant	6.791	1	0.010	0.030
Rate × Stress	29.154	1	< .001	0.117
Rate × Vowel	0.187	1	0.666	0.001
Rate × Consonant	2.495	1	0.116	0.011
Stress × Vowel	19.242	1	< .001	0.080
Stress × Consonant	2.968	1	0.086	0.013
Vowel × Consonant	1.394	1	0.239	0.006
Rate × Stress × Vowel	1.031	1	0.311	0.005
Rate × Stress × Consonant	0.948	1	0.331	0.004
Rate × Vowel × Consonant	0.285	1	0.594	0.001
Stress × Vowel × Consonant	0.196	1	< .001	0.001
Rate × Stress × Vowel × Consonant	0.076	1	< .001	< .001

Talker 5

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	0.264	1	0.608	0.001
Stress	185.336	1	< .001	0.460
Vowel	0.219	1	0.640	0.001
Consonant	8.161	1	0.005	0.036
Rate × Stress	0.003	1	0.956	< .001
Rate × Vowel	0.006	1	0.938	< .001
Rate × Consonant	0.631	1	0.428	0.003
Stress × Vowel	9.465	1	0.002	0.042
Stress × Consonant	1.013	1	0.315	0.005
Vowel × Consonant	1.929	1	0.166	0.009
Rate × Stress × Vowel	2.965	1	0.087	0.013
Rate × Stress × Consonant	0.173	1	0.678	0.001
Rate × Vowel × Consonant	4.791	1	0.030	0.022
Stress × Vowel × Consonant	0.031	1	0.862	< .001
Rate × Stress × Vowel × Consonant	6.361	1	0.012	0.028

Talker 6

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp2</i>
Rate	25.024	1	< .001	0.107
Stress	492.766	1	< .001	0.702
Vowel	2.667	1	0.104	0.013
Consonant	3.941	1	0.048	0.019
Rate × Stress	0.274	1	0.601	0.001
Rate × Vowel	1.680	1	0.196	0.008
Rate × Consonant	0.600	1	0.439	0.003
Stress × Vowel	1.198	1	0.275	0.006
Stress × Consonant	2.900	1	0.090	0.014
Vowel × Consonant	1.922	0	0.167	0.009
Rate × Stress × Vowel	0.704	1	0.403	0.003
Rate × Stress × Consonant	1.838	1	0.177	0.009
Rate × Vowel × Consonant	1.206	1	0.273	0.006
Stress × Vowel × Consonant	2.133	0	0.146	0.010
Rate × Stress × Vowel × Consonant	0.022	1	0.883	< .001

Talker 7

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	1.699	1	0.198	0.008
Stress	79.651	1	< .001	0.269
Vowel	5.512	1	0.020	0.025
Consonant	0.470	1	0.494	0.002
Rate × Stress	3.028	1	0.083	0.014
Rate × Vowel	1.322	1	0.252	0.006
Rate × Consonant	9.521	1	0.002	0.042
Stress × Vowel	4.858	1	0.029	0.022
Stress × Consonant	9.849	1	0.002	0.044
Vowel × Consonant	0.215	1	0.643	0.001
Rate × Stress × Vowel	0.964	1	0.327	0.004
Rate × Stress × Consonant	0.939	1	0.334	0.004
Rate × Vowel × Consonant	3.735	1	0.055	0.017
Stress × Vowel × Consonant	1.109	1	0.293	0.005
Rate × Stress × Vowel × Consonant	1.516	1	0.220	0.007

Talker 8

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	70.697	1	< .001	0.240
Stress	218.587	1	< .001	0.494
Vowel	1.306	1	0.254	0.006
Consonant	0.133	1	0.716	0.001
Rate × Stress	9.035	1	0.003	0.039
Rate × Vowel	0.587	1	0.444	0.003
Rate × Consonant	1.592	1	0.208	0.007
Stress × Vowel	0.338	1	0.561	0.002
Stress × Consonant	4.846	1	0.029	0.021
Vowel × Consonant	1.531	1	0.217	0.007
Rate × Stress × Vowel	0.319	1	0.573	0.001
Rate × Stress × Consonant	0.162	1	0.688	0.001
Rate × Vowel × Consonant	0.017	1	0.896	< .001
Stress × Vowel × Consonant	0.235	1	0.628	0.001
Rate × Stress × Vowel × Consonant	0.096	1	0.757	< .001

Talker 9

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp</i> ²
Rate	67.786	1	< .001	0.232
Stress	113.309	1	< .001	0.336
Vowel	0.719	1	0.398	0.003
Consonant	1.982	1	0.161	0.009
Rate × Stress	44.152	1	< .001	0.165
Rate × Vowel	0.158	1	0.691	0.001
Rate × Consonant	0.038	1	0.846	< .001
Stress × Vowel	0.098	1	0.755	< .001
Stress × Consonant	12.728	1	< .001	0.054
Vowel × Consonant	0.171	1	0.679	0.001
Rate × Stress × Vowel	8.443	1	0.004	0.036
Rate × Stress × Consonant	0.050	1	0.823	< .001
Rate × Vowel × Consonant	0.374	1	0.541	0.002
Stress × Vowel × Consonant	9.494	1	0.002	0.041
Rate × Stress × Vowel × Consonant	< .001	1	0.990	< .001

Talker 10

Effect	<i>F</i>	<i>df</i>	<i>p</i>	<i>ηp²</i>
Rate	15.008	1	< .001	0.063
Stress	283.554	1	< .001	0.561
Vowel	1.545	1	0.215	0.007
Consonant	3.997	1	0.047	0.018
Rate × Stress	5.517	1	0.020	0.024
Rate × Vowel	0.032	1	0.859	< .001
Rate × Consonant	0.147	1	0.701	0.001
Stress × Vowel	1.639	1	0.202	0.007
Stress × Consonant	18.034	1	< .001	0.075
Vowel × Consonant	5.212	1	0.023	0.023
Rate × Stress × Vowel	0.494	1	0.483	0.002
Rate × Stress × Consonant	2.981	1	0.086	0.013
Rate × Vowel × Consonant	0.063	1	0.802	< .001
Stress × Vowel × Consonant	0.319	1	0.573	< .001
Rate × Stress × Vowel × Consonant	0.441	1	0.507	0.002