

Supplemental Material S4. Mixed models for the relation between the perception and production study.

Line	Factors of interest	Effects	Estimates	<i>t</i>	Adjusted <i>p</i>
1	F0	(Intercept)	3.4265	14.8219	0.0000
2	F0	F0	−0.0037	−2.9930	.0298
3	F0	spGroup(NW)	−0.7018	−3.9137	.0095
4	F0	spGroup(NM)	1.0376	6.1166	.0001
5	F0	vow(l)	−0.1402	−1.7674	.5639
6	F0	vow(U)	0.3986	4.7003	.0001
7	F0	spGroup(NW) × vow(l)	0.1841	1.8154	.5175
8	F0	spGroup(NM) × vow(l)	0.1550	1.5722	.7868
9	F0	spGroup(NW) × vow(U)	−0.3701	−3.4471	.0095
10	F0	spGroup(NM) × vow(U)	−0.3729	−3.5945	.0059
11	F1	(Intercept)	2.8339	19.8584	0.0000
12	F1	spGroup(NW)	−0.9079	−4.5598	.0021
13	F1	spGroup(NM)	1.1599	5.8478	.0001
14	F1	vow(l)	−0.1316	−1.6569	.6804
15	F1	vow(U)	0.3330	3.9897	.0017
16	F1	spGroup(NW) × vow(l)	0.1542	1.5219	.8323
17	F1	spGroup(NM) × vow(l)	0.1352	1.3709	1.0000
18	F1	spGroup(NW) × vow(U)	−0.3322	−3.0947	.0233
19	F1	spGroup(NM) × vow(U)	−0.3155	−3.0615	.0233
20	F2	(Intercept)	2.8339	19.8584	0.0000
21	F2	spGroup(NW)	−0.9079	−4.5598	.0021
22	F2	spGroup(NM)	1.1599	5.8478	.0001
23	F2	vow(l)	−0.1316	−1.6569	.6804
24	F2	vow(U)	0.3330	3.9897	.0017
25	F2	spGroup(NW) × vow(l)	0.1542	1.5219	.8323
26	F2	spGroup(NM) × vow(l)	0.1352	1.3709	1.0000
27	F2	spGroup(NW) × vow(U)	−0.3322	−3.0947	.0233
28	F2	spGroup(NM) × vow(U)	−0.3155	−3.0615	.0233
29	H1–H2	(Intercept)	2.8422	23.6982	0.0000
30	H1–H2	H1–H2	−0.0351	−3.3632	.0122
31	H1–H2	spGroup(NW)	−0.8947	−5.1547	.0008
32	H1–H2	spGroup(NM)	1.1672	6.7423	0.0000
33	H1–H2	vow(l)	−0.1068	−1.3353	1.0000
34	H1–H2	vow(U)	0.3786	4.5241	.0002
35	H1–H2	H1–H2 × spGroup(NW)	0.0314	2.3567	.1532
36	H1–H2	H1–H2 × spGroup(NM)	0.0391	2.3137	.1695
37	H1–H2	spGroup(NW) × vow(l)	0.1251	1.2231	1.0000
38	H1–H2	spGroup(NM) × vow(l)	0.1181	1.1555	1.0000
39	H1–H2	spGroup(NW) × vow(U)	−0.3618	−3.1865	.0192
40	H1–H2	spGroup(NM) × vow(U)	−0.3614	−3.5013	.0082
41	H2–H4	(Intercept)	2.8339	19.8584	0.0000

42	H2-H4	spGroup(NW)	-0.9079	-4.5598	.0021
43	H2-H4	spGroup(NM)	1.1599	5.8478	.0001
44	H2-H4	vow(I)	-0.1316	-1.6569	.6804
45	H2-H4	vow(U)	0.3330	3.9897	.0017
46	H2-H4	spGroup(NW) x vow(I)	0.1542	1.5219	.8323
47	H2-H4	spGroup(NM) x vow(I)	0.1352	1.3709	1.0000
48	H2-H4	spGroup(NW) x vow(U)	-0.3322	-3.0947	.0233
49	H2-H4	spGroup(NM) x vow(U)	-0.3155	-3.0615	.0233
50	Energy	(Intercept)	2.8110	19.0170	0.0000
51	Energy	Energy	0.1456	2.1852	.2226
52	Energy	spGroup(NW)	-0.9114	-4.4338	.0029
53	Energy	spGroup(NM)	1.1383	5.5333	.0003
54	Energy	vow(I)	-0.1201	-1.4742	.8975
55	Energy	vow(U)	0.2843	3.3097	.0136
56	Energy	Energy x vow(I)	-0.0598	-0.9109	1.0000
57	Energy	Energy x vow(U)	0.2094	2.3004	.1715
58	Energy	spGroup(NW) x vow(I)	0.1626	1.5948	.7586
59	Energy	spGroup(NM) x vow(I)	0.1272	1.2788	1.0000
60	Energy	spGroup(NW) x vow(U)	-0.3301	-3.0729	.0233
61	Energy	spGroup(NM) x vow(U)	-0.3197	-3.0682	.0233
62	CPP	(Intercept)	4.4183	10.7838	0.0000
63	CPP	CPP	-0.0743	-4.1497	.0011
64	CPP	spGroup(NW)	-2.5235	-4.9114	.0001
65	CPP	spGroup(NM)	-0.4206	-0.7515	1.0000
66	CPP	CPP x spGroup(NW)	0.0756	3.4890	.0086
67	CPP	CPP x spGroup(NM)	0.0741	3.2131	.0183
68	HNR05	(Intercept)	3.6984	10.0250	0.0000
69	HNR05	HNR05	-0.0197	-2.5508	.0930
70	HNR05	spGroup(NW)	-1.9756	-3.7954	.0033
71	HNR05	spGroup(NM)	0.3337	0.6534	1.0000
72	HNR05	vow(I)	-1.0317	-3.4366	.0095
73	HNR05	vow(U)	1.5660	4.6586	.0001
74	HNR05	HNR05 x spGroup(NW)	0.0242	2.3128	.1695
75	HNR05	HNR05 x spGroup(NM)	0.0189	1.7788	.5589
76	HNR05	HNR05 x vow(I)	0.0212	3.0510	.0238
77	HNR05	HNR05 x vow(U)	-0.0302	-3.9018	.0021
78	HNR05	spGroup(NW) x vow(I)	0.7972	1.6470	.6881
79	HNR05	spGroup(NM) x vow(I)	1.3798	3.1689	.0197
80	HNR05	spGroup(NW) x vow(U)	-1.4978	-3.0736	.0233
81	HNR05	spGroup(NM) x vow(U)	-1.6663	-3.8252	.0025
82	HNR05	HNR05 x spGroup(NW) x vow(I)	-0.0156	-1.4618	.9115
83	HNR05	HNR05 x spGroup(NM) x vow(I)	-0.0288	-2.9470	.0321
84	HNR05	HNR05 x spGroup(NW) x vow(U)	0.0289	2.6863	.0632
85	HNR05	HNR05 x spGroup(NM) x vow(U)	0.0329	3.3311	.0129
86	HNR15	(Intercept)	3.7799	8.4519	0.0000
87	HNR15	HNR15	-0.0190	-2.2425	.1946

88	HNR15	spGroup(NW)	-2.0628	-3.1916	.0195
89	HNR15	spGroup(NM)	0.3152	0.4984	1.0000
90	HNR15	vow(I)	-1.2952	-2.9526	.0320
91	HNR15	vow(U)	2.0389	3.9178	.0021
92	HNR15	HNR15 x spGroup(NW)	0.0226	1.9206	.4175
93	HNR15	HNR15 x spGroup(NM)	0.0178	1.5037	.8565
94	HNR15	HNR15 x vow(I)	0.0235	2.7702	.0526
95	HNR15	HNR15 x vow(U)	-0.0335	-3.2711	.0151
96	HNR15	spGroup(NW) x vow(I)	0.9030	1.2401	1.0000
97	HNR15	spGroup(NM) x vow(I)	1.7853	2.7207	.0587
98	HNR15	spGroup(NW) x vow(U)	-1.8150	-2.6488	.0691
99	HNR15	spGroup(NM) x vow(U)	-2.1479	-3.2718	.0151
100	HNR15	HNR15 x spGroup(NW) x vow(I)	-0.0163	-1.2362	1.0000
101	HNR15	HNR15 x spGroup(NM) x vow(I)	-0.0326	-2.6947	.0623
102	HNR15	HNR15 x spGroup(NW) x vow(U)	0.0296	2.2416	.1946
103	HNR15	HNR15 x spGroup(NM) x vow(U)	0.0352	2.7500	.0553
104	HNR25	(Intercept)	4.2457	8.0132	0.0000
105	HNR25	HNR25	-0.0258	-2.7343	.0578
106	HNR25	spGroup(NW)	-2.5329	-3.4198	.0102
107	HNR25	spGroup(NM)	-0.1186	-0.1630	1.0000
108	HNR25	vow(I)	-1.5847	-2.9256	.0340
109	HNR25	vow(U)	2.6678	3.9342	.0020
110	HNR25	HNR25 x spGroup(NW)	0.0292	2.2967	.1721
111	HNR25	HNR25 x spGroup(NM)	0.0239	1.8295	.5076
112	HNR25	HNR25 x vow(I)	0.0269	2.7186	.0587
113	HNR25	HNR25 x vow(U)	-0.0419	-3.4160	.0100
114	HNR25	spGroup(NW) x vow(I)	1.1302	1.3645	1.0000
115	HNR25	spGroup(NM) x vow(I)	2.1171	2.7909	.0500
116	HNR25	spGroup(NW) x vow(U)	-2.4204	-2.8532	.0422
117	HNR25	spGroup(NM) x vow(U)	-2.7218	-3.2245	.0174
118	HNR25	HNR25 x spGroup(NW) x vow(I)	-0.0191	-1.3412	1.0000
119	HNR25	HNR25 x spGroup(NM) x vow(I)	-0.0367	-2.6720	.0652
120	HNR25	HNR25 x spGroup(NW) x vow(U)	0.0379	2.5020	.1032
121	HNR25	HNR25 x spGroup(NM) x vow(U)	0.0428	2.7910	.0500
122	HNR35	(Intercept)	2.8339	19.8584	0.0000
123	HNR35	spGroup(NW)	-0.9079	-4.5598	.0021
124	HNR35	spGroup(NM)	1.1599	5.8478	.0001
125	HNR35	vow(I)	-0.1316	-1.6569	.6804
126	HNR35	vow(U)	0.3330	3.9897	.0017
127	HNR35	spGroup(NW) x vow(I)	0.1542	1.5219	.8323
128	HNR35	spGroup(NM) x vow(I)	0.1352	1.3709	1.0000
129	HNR35	spGroup(NW) x vow(U)	-0.3322	-3.0947	.0233
130	HNR35	spGroup(NM) x vow(U)	-0.3155	-3.0615	.0233
131	SHR	(Intercept)	2.8339	19.8584	0.0000
132	SHR	spGroup(NW)	-0.9079	-4.5598	.0021
133	SHR	spGroup(NM)	1.1599	5.8478	.0001

134	SHR	vow(l)	−0.1316	−1.6569	.6804
135	SHR	vow(U)	0.3330	3.9897	.0017
136	SHR	spGroup(NW) × vow(l)	0.1542	1.5219	.8323
137	SHR	spGroup(NM) × vow(l)	0.1352	1.3709	1.0000
138	SHR	spGroup(NW) × vow(U)	−0.3322	−3.0947	.0233
139	SHR	spGroup(NM) × vow(U)	−0.3155	−3.0615	.0233

Note. Significant results are highlighted in gray. Column 2 = labels of the tested parameters; Column 3 = model estimates; Column 4 = *t* values; Column 5 = *p* values adjusted according to the False Discovery Rate criterion.