Supplemental Table S9. Generalized linear mixed-effects model with gender, task, and congruence as the fixed effects, and accuracy as the dependent variable in Experiment 3 (pairwise contrasts are indented).

Parameter	Estimate	Standard error (*SE*)	*z* ratio	*p*	Cohen's *d* [95% CI]
Gender					
female vs. male	-0.11	0.16	-0.72	.471	-0.08 [-0.30, 0.14]
Task					
facial vs. prosodic	0.31	0.25	1.25	.425	0.14 [-0.08, 0.36]
facial vs. semantic	0.67	0.24	2.77	.016	0.31 [0.09, 0.54]
prosodic vs. semantic	0.36	0.24	1.53	.279	0.17 [-0.05, 0.40]
Congruence					
cross-channel congruent vs. semantic incongruent	1.01	0.25	4.01	.0003	0.45 [0.23, 0.68]
cross-channel congruent vs. prosodic incongruent	1.24	0.25	5.00	< .0001	0.57 [0.34, 0.79]
cross-channel congruent vs. facial incongruent	0.40	0.27	1.52	.423	0.17 [-0.05, 0.39]
Gender * Task					
facial (female vs. male)	0.07	0.24	0.26	.776	0.03 [-0.19, 0.25]
prosodic (female vs. male)	-0.43	0.22	-1.93	.054	-0.22 [-0.44, 0.00]
semantic (female vs. male)	0.01	0.20	0.07	.053	0.008[-0.21, 0.23]
Task * Congruence					
facial (cross-channel congruent vs. semantic incongruent)	0.39	0.39	1.00	.751	0.11 [-0.11, 0.34]
facial (cross-channel congruent vs. prosodic incongruent)	0.11	0.41	0.27	.993	0.03 [-0.19, 0.25]
facial (cross-channel congruent vs. facial incongruent)	0.42	0.39	1.07	.707	0.12 [-0.10, 0.34]
prosodic (cross-channel congruent vs. semantic incongruent)	0.67	0.41	1.63	.360	0.18 [-0.04, 0.41]
prosodic (cross-channel congruent vs. prosodic incongruent)	1.61	0.39	4.16	.0002	0.47 [0.25, 0.69]
prosodic (cross-channel congruent vs. facial incongruent)	0.55	0.42	1.31	.559	0.15 [-0.07, 0.37]
semantic (cross-channel congruent vs. semantic incongruent)	1.82	0.38	4.75	< .0001	0.54 [0.32, 0.76]
semantic (cross-channel congruent vs. prosodic incongruent)	1.75	0.39	4.55	< .0001	0.52 [0.29, 0.74]
semantic (cross-channel congruent vs. facial incongruent)	0.29	0.43	0.66	.911	0.07 [-0.15, 0.30]
Gender * Congruence					
cross-channel congruent (female vs. male)	0.28	0.32	0.88	.378	0.10 [-0.12, 0.32]
semantic incongruent (female vs. male)	-0.20	0.23	-0.89	.372	-0.10 [-0.32, 0.12]
prosodic incongruent (female vs. male)	-0.19	0.22	-0.87	.386	-0.10 [-0.32, 0.12]
facial incongruent (female vs. male)	-0.12	0.27	-0.43	.668	-0.05 [-0.27, 0.17]
Gender * Task * Congruence					
facial, cross-channel congruent (female vs. male)	0.34	0.48	0.71	.477	0.08 [-0.14, 0.30]
facial, semantic incongruent (female vs. male)	-0.20	0.40	-0.49	.628	-0.06 [-0.28, 0.17]
facial, prosodic incongruent (female vs. male)	-0.10	0.46	-0.21	.831	-0.02 [-0.25, 0.20]
facial, facial incongruent (female vs. male)	0.27	0.40	0.67	.503	0.08 [-0.15, 0.30]
prosodic, cross-channel congruent (female vs. male)	0.11	0.54	0.20	.838	0.02 [-0.20, 0.24]
prosodic, semantic incongruent (female vs. male)	-0.45	0.42	-1.08	.278	-0.12 [-0.34, 0.10]

prosodic, prosodic incongruent (female vs. male)	-0.41	0.30	-1.37	.171	-0.16 [-0.38, 0.07]
prosodic, facial incongruent (female vs. male)	-0.76	0.44	-1.71	.088	-0.19 [-0.42, 0.03]
semantic, cross-channel congruent (female vs. male)	0.41	0.55	0.75	.455	0.08 [-0.14, 0.31]
semantic, semantic incongruent (female vs. male)	-0.01	0.28	-0.02	.981	-0.002 [-0.22, 0.22]
semantic, prosodic incongruent (female vs. male)	-0.08	0.28	-0.29	.770	-0.03 [-0.25, 0.19]
semantic, facial incongruent (female vs. male)	0.11	0.48	0.23	.818	0.03 [-0.20, 0.25]

Note. The female participants, the facial task, and the cross-channel congruent condition were used as the default level of gender, task, and congruence respectively. When conducting a pairwise comparison between prosodic and semantic tasks, prosody was set as the baseline level.