

Supplemental Appendix B. Model Fit of Sequential Multilevel Logistic Regression Model of Secondary Task Performance

	<i>df</i>	<i>AIC</i>	<i>BIC</i>	<i>-2LL</i>	<i>X</i> ²	<i>p</i>
M1: Individual Intercept Only	2	4963	4977	2479		
M2: Added Task effect	3	4039	4060	2016	926.12	< .0001
M3: Added Speaker	4	4040	4069	2016	0.18	.67
M4: Added Task * Speaker	5	4039	4075	2014	3.05	.08
M5: Added Domain	6	3982	4025	1985	59.72	< .0001
M6: Added Task * Domain * Speaker	9	3982	4046	1982	5.96	.11
M7: Added ISI	10	3975	4047	1977	8.38	.004
M8: Task * Speaker * Domain * ISI	17	3977	4099	1971	11.91	.10
M9: Added Load1 & Load2	19	3950	4086	1956	31.24	< .0001
M10: Added full interactions (Task * Domain * ISI * Load1 & Load2)	49	3980	4330	1941	30.61	.43
M11: Task + Domain + ISI + Load1 + Load2 (removed Speaker and all interactions)	7	3948	3998	1967	21.39 ^a	.045

Note. Logistic models were fit using Maximum Likelihood Estimation and included a random intercept for each subject.

^aCompares M9 to M11.