Acceptability percentages and complete Bayesian model outputs

Table 1. Percentage of accepted responses by condition and island type. Standard deviations are shown in parentheses.

	Non-island/short	*Island/short*	*Non-island/long*	*Island/long*
Subject	69.08 (46.37)	88.46 (32.05)	89.74 (30.44)	12.42 (33.09)
Complex NP	98.74 (11.18)	88.68 (31.78)	85.06 (35.76)	18.47 (38.93)
Adjunct	76.92 (42.29)	94.34 (23.18)	62.84 (48.49)	30.92 (46.37)
Interrogative	94.19 (23.46)	98.08 (13.78)	85.81 (35.01)	42.11 (49.54)
Mean	84.89 (35.85)	92.38 (26.55)	81.08 (39.20)	25.90 (43.84)

Table 2. Results of the Bayesian mixed-effects logistic regression model of the acceptability data collapsed across the four constructions. Columns show the estimated effect size, its standard error (SE), a 95% credible interval (CrI) and two measures of model convergence: the effective sample size (nEff) and the R-hat statistic ($\hat{R}$). The intercept corresponds to the average of all four constructions in the condition *non-island/short*.

	Estimate	SE	95% CrI	Eff.Sample	$\hat{R}$
Intercept	2.60	0.24	[2.15, 3.10]	7007	1.00
Distance	-0.81	0.24	[-1.32, -0.36]	7701	1.00
Structure	0.49	0.30	[-0.10, 1.07]	8626	1.00
Subject	-3.27	0.55	[-4.41, -2.23]	7712	1.00
Complex NP	4.45	1.12	[2.53, 6.89]	5756	1.00
Adjunct	-2.37	0.56	[-3.50, -1.31]	7723	1.00
Working Memory	1.75	1.18	[-0.58, 4.05]	14137	1.00
Structure × Distance	-3.59	0.34	[-4.26, -2.92]	9901	1.00
Distance × Subject	4.65	0.68	[3.34, 6.04]	9427	1.00
Distance × Complex NP	-3.99	1.17	[-6.51, -1.92]	5920	1.00
Distance × Adjunct	0.01	0.62	[-1.19, 1.24]	8769	1.00
Structure × Subject	1.74	0.75	[0.29, 3.23]	9647	1.00
Structure × Complex NP	-5.85	1.23	[-8.45, -3.65]	6454	1.00
Structure × Adjunct	2.55	0.83	[0.95, 4.20]	10780	1.00
Distance × Working Memory	-1.18	1.25	[-3.63, 1.27]	20573	1.00
Structure × Working Memory	-1.75	1.50	[-4.71, 1.17]	18602	1.00
Structure × Distance × Subject	-4.94	0.98	[-6.87, -3.02]	10825	1.00
Structure × Distance × Complex NP	4.55	1.34	[2.10, 7.39]	6798	1.00
Structure × Distance × Adjunct	0.60	0.96	[-1.31, 2.46]	11327	1.00
Structure × Distance × Working Memory	2.27	1.88	[-1.43, 5.95]	17672	1.00

Table 3. Results of the Bayesian mixed-effects logistic regression model of the acceptability data of subject islands. Columns show the estimated effect size, its standard error (SE), a 95% credible interval (CrI) and two measures of model convergence: the effective sample size (nEff) and the R-hat statistic (R̂). The intercept corresponds to condition *non-island/short* in subject islands.

	Estimate	SE	95% CrI	Eff.Sample	R̂
Intercept	0.98	0.25	[0.50, 1.46]	1650	1.01
Distance	1.50	0.34	[0.88, 2.19]	1047	1.01
Structure	1.35	0.32	[0.73, 1.99]	1455	1.01
Complex NP	3.94	0.79	[2.58, 5.72]	1375	1.00
Adjunct	0.43	0.34	[-0.25, 1.10]	1804	1.01
Interrogative	2.21	0.45	[1.36, 3.11]	1729	1.00
Working Memory	1.72	1.18	[-0.63, 3.98]	1620	1.00
Structure × Distance	-6.04	0.51	[-7.12, -5.08]	1091	1.01
Distance × Complex NP	-4.40	0.86	[-6.25, -2.91]	1306	1.00
Distance × Adjunct	-2.29	0.44	[-3.21, -1.46]	1274	1.00
Distance × Interrogative	-2.62	0.56	[-3.74, -1.55]	1279	1.01
Structure × Complex NP	-3.88	0.86	[-5.68, -2.37]	1384	1.00
Structure × Adjunct	0.43	0.53	[-0.61, 1.47]	1696	1.00
Structure × Interrogative	-0.07	0.79	[-1.50, 1.56]	1522	1.00
Distance × Working Memory	-1.17	1.25	[-3.67, 1.26]	2780	1.00
Structure × Working Memory	-1.72	1.47	[-4.59, 1.01]	2536	1.00
Structure × Distance × Complex NP	4.84	1.00	[3.03, 6.98]	1255	1.00
Structure × Distance × Adjunct	2.73	0.71	[1.29, 4.14]	1337	1.01
Structure × Distance × Interrogative	2.32	0.93	[0.40, 4.14]	1252	1.00
Structure × Distance × Working Memory	2.23	1.88	[-1.45, 6.04]	2349	1.00

Table 4. Results of the Bayesian mixed-effects logistic regression model of the acceptability data of complex NP islands. Columns show the estimated effect size, its standard error (SE), a 95% credible interval (CrI) and two measures of model convergence: the effective sample size (nEff) and the R-hat statistic (R̂). The intercept corresponds to condition *non-island/short* in complex NP islands.

	Estimate	SE	95% CrI	Eff.Sample	R̂
Intercept	4.79	0.70	[3.57, 6.35]	743	1.01
Distance	-2.77	0.73	[-4.37, -1.54]	746	1.01
Structure	-2.39	0.73	[-4.00, -1.12]	745	1.01
Subject	-3.82	0.73	[-5.43, -2.58]	784	1.01
Adjunct	-3.37	0.73	[-4.96, -2.13]	782	1.01
Interrogative	-1.59	0.80	[-3.28, -0.13]	862	1.01
Working Memory	1.75	1.20	[-0.66, 4.06]	3025	1.00
Structure × Distance	-1.36	0.80	[-2.77, 0.36]	778	1.01
Distance × Subject	4.30	0.80	[2.89, 6.02]	811	1.01
Distance × Adjunct	1.96	0.77	[0.65, 3.65]	814	1.01
Distance × Interrogative	1.61	0.85	[0.07, 3.45]	848	1.01
Structure × Subject	3.76	0.80	[2.36, 5.49]	802	1.01
Structure × Adjunct	4.16	0.84	[2.68, 5.92]	872	1.01
Structure × Interrogative	3.64	1.02	[1.81, 5.77]	1120	1.00
Distance × Working Memory	-1.19	1.26	[-3.69, 1.28]	4400	1.00
Structure × Working Memory	-1.73	1.51	[-4.73, 1.12]	4268	1.00
Structure × Distance × Subject	-4.73	0.94	[-6.74, -3.03]	927	1.00
Structure × Distance × Adjunct	-1.95	0.93	[-3.84, -0.24]	930	1.00
Structure × Distance × Interrogative	-2.33	1.10	[-4.69, -0.26]	1118	1.00
Structure × Distance × Working Memory	2.23	1.92	[-1.49, 6.00]	3908	1.00

Table 5. Results of the Bayesian mixed-effects logistic regression model of the acceptability data of adjunct islands. Columns show the estimated effect size, its standard error (SE), a 95% credible interval (CrI) and two measures of model convergence: the effective sample size (nEff) and the R-hat statistic (R̂). The intercept corresponds to condition *non-island/short* in adjunct islands.

	Estimate	SE	95% CrI	Eff.Sample	R̂
Intercept	1.42	0.26	[0.91, 1.95]	2036	1.00
Distance	-0.82	0.27	[-1.36, -0.29]	1930	1.00
Structure	1.75	0.41	[0.99, 2.60]	1450	1.00
Subject	-0.47	0.34	[-1.14, 0.22]	2030	1.00
Complex NP	3.52	0.82	[2.11, 5.31]	1441	1.00
Interrogative	1.76	0.45	[0.90, 2.70]	2128	1.00
Working Memory	1.74	1.18	[-0.60, 4.00]	1934	1.00
Structure × Distance	-3.27	0.5	[-4.28, -2.32]	1359	1.00
Distance × Subject	2.36	0.44	[1.52, 3.23]	2198	1.00
Distance × Complex NP	-2.11	0.84	[-3.98, -0.64]	1365	1.00
Distance × Interrogative	-0.32	0.51	[-1.34, 0.65]	2059	1.00
Structure × Subject	-0.36	0.53	[-1.45, 0.67]	1581	1.00
Structure × Complex NP	-4.31	0.91	[-6.30, -2.69]	1241	1.00
Structure × Interrogative	-0.45	0.84	[-1.98, 1.27]	1855	1.00
Distance × Working Memory	-1.2	1.23	[-3.53, 1.25]	3179	1.00
Structure × Working Memory	-1.77	1.47	[-4.69, 1.03]	3082	1.00
Structure × Distance × Subject	-2.84	0.71	[-4.21, -1.44]	1648	1.00
Structure × Distance × Complex NP	2.09	0.99	[0.30, 4.24]	1186	1.00
Structure × Distance × Interrogative	-0.46	0.92	[-2.36, 1.27]	1712	1.00
Structure × Distance × Working Memory	2.31	1.87	[-1.36, 5.93]	2686	1.00

Table 6. Results of the Bayesian mixed-effects logistic regression model of the acceptability data of interrogative islands. Columns show the estimated effect size, its standard error (SE), a 95% credible interval (CrI) and two measures of model convergence: the effective sample size (nEff) and the R-hat statistic (R̂). The intercept corresponds to condition *non-island/short* in interrogative islands.

	Estimate	SE	95% CrI	Eff.Sample	R̂
Intercept	3.22	0.42	[2.44, 4.10]	1795	1.00
Distance	-1.17	0.45	[-2.09, -0.32]	1774	1.00
Structure	1.21	0.72	[-0.10, 2.74]	1269	1.01
Subject	-2.26	0.46	[-3.22, -1.38]	1917	1.00
Complex NP	1.76	0.88	[0.22, 3.67]	2461	1.00
Adjunct	-1.81	0.47	[-2.77, -0.91]	1742	1.00
Working Memory	1.74	1.2	[-0.57, 4.05]	2986	1.00
Structure × Distance	-3.65	0.78	[-5.26, -2.19]	1257	1.01
Distance × Subject	2.71	0.57	[1.60, 3.84]	1977	1.00
Distance × Complex NP	-1.79	0.92	[-3.78, -0.15]	2357	1.00
Distance × Adjunct	0.38	0.53	[-0.63, 1.44]	1731	1.00
Structure × Subject	0.17	0.79	[-1.47, 1.63]	1372	1.01
Structure × Complex NP	-3.8	1.08	[-6.14, -1.90]	1654	1.01
Structure × Adjunct	0.57	0.83	[-1.14, 2.13]	1299	1.01
Distance × Working Memory	-1.21	1.24	[-3.56, 1.21]	3878	1.00
Structure × Working Memory	-1.79	1.5	[-4.74, 1.09]	4512	1.00
Structure × Distance × Subject	-2.46	0.92	[-4.24, -0.57]	1469	1.01
Structure × Distance × Complex NP	2.49	1.17	[0.35, 4.94]	1571	1.01
Structure × Distance × Adjunct	0.34	0.92	[-1.45, 2.20]	1315	1.01
Structure × Distance × Working Memory	2.31	1.89	[-1.40, 6.08]	4292	1.00