Appendix B

Details of Models

Summary of AICc results for models exploring the effect of speech variables on predicting Speaker veracity. Models are ranked according to differences in Akaike's Information Criterion corrected for small sample sizes (AICc).

Model[a]	AICc	ΔAICc	w_i[b]	ER_i[c]
$y \sim ps + \varepsilon$	1583.04	0.00	0.108	1.00
$y \sim ps + pl + \varepsilon$	1583.73	0.70	0.076	1.42
$y \sim ps + rp + \varepsilon$	1583.91	0.88	0.070	1.55
$y \sim pl + sr + \varepsilon$	1584.38	1.34	0.055	1.95
$y \sim sr + \varepsilon$	1584.39	1.36	0.055	1.97
$y \sim ps + rp + pl + \varepsilon$	1584.74	1.71	0.046	2.35
$y \sim ps + pl + sr + \varepsilon$	1584.75	1.71	0.046	2.35
$y \sim ps + sr + \varepsilon$	1584.82	1.78	0.044	2.44
$y \sim ps + rr + \varepsilon$	1585.02	1.99	0.040	2.70
$y \sim 1 + \varepsilon$	1585.04	2.00	0.040	2.72
$y \sim rp + \varepsilon$	1585.05	2.01	0.040	2.73
$y \sim rp + sr + \varepsilon$	1585.30	2.26	0.035	3.09
$y \sim rp + pl + sr + \varepsilon$	1585.64	2.60	0.030	3.69
$y \sim ps + rr + pl + \varepsilon$	1585.73	2.70	0.028	3.85
$y \sim ps + rp + sr + \varepsilon$	1585.84	2.80	0.027	4.06
$y \sim ps + rr + rp + \varepsilon$	1585.87	2.83	0.026	4.12
$y \sim ps + rp + pl + sr + \varepsilon$	1586.12	3.07	0.023	4.64
$y \sim rr + pl + sr + \varepsilon$	1586.32	3.28	0.021	5.16
$y \sim rr + sr + \varepsilon$	1586.36	3.32	0.021	5.26
$y \sim ps + rr + pl + sr + \varepsilon$	1586.68	3.64	0.018	6.18
$y \sim ps + rr + rp + pl + \varepsilon$	1586.72	3.68	0.017	6.31
$y \sim ps + rr + sr + \varepsilon$	1586.78	3.74	0.017	6.49
$y \sim pl + \varepsilon$	1586.82	3.79	0.016	6.64
$y \sim rp + pl + \varepsilon$	1586.83	3.80	0.016	6.67
$y \sim rr + \varepsilon$	1587.04	4.01	0.015	7.41
$y \sim rr + rp + \varepsilon$	1587.06	4.03	0.014	7.49
$y \sim rr + rp + sr + \varepsilon$	1587.23	4.20	0.013	8.15
$y \sim rr + rp + pl + sr + \varepsilon$	1587.55	4.52	0.011	9.57
$y \sim ps + rr + rp + sr + \varepsilon$	1587.77	4.74	0.010	10.67
$y \sim ps + rr + rp + pl + sr + \varepsilon$	1588.02	4.98	0.009	12.08
$y \sim rr + pl + \varepsilon$	1588.82	5.79	0.006	18.06
$y \sim rr + rp + pl + \varepsilon$	1588.85	5.82	0.006	18.32

[a] y = Speaker veracity, ps = pauses, rr = repetitions, rp = repairs, pl = prolongations, sr = speech rate, ε = error term (random intercepts for subjects and items)

[b] AICc weight (relative likelihood of model based on AICc value)

[c] Evidence ratio (likelihood of favouring the best model over the current model i)

Model output for best-supported model for the effect of speech variables on Speaker veracity.

Model of pauses on Speaker veracity				
Fixed effects				
		Estimate	SE	z value	p value
(Intercept)		0.16	0.08	1.96	.05
pauses		0.26	0.13	2.01	.04
Random effects				
			Variance	SD	
participants	(Intercept)		0.05	0.23	
items	(Intercept)		0.10	0.31	
No. of obs: 1149, groups: participant, 24; item, 96					

Summary of AICc results for models exploring the effect of speech variables on predicting Guesser response. Models are ranked according to differences in Akaike's Information Criterion corrected for small sample sizes (AICc).

Model[a]	AICc	ΔAICc	w_i[b]	ER_i[c]
$y \sim ps + \varepsilon$	1569.21	0.00	0.151	1.00
$y \sim ps + rp + \varepsilon$	1569.47	0.26	0.132	1.14
$y \sim ps + sr + \varepsilon$	1570.80	1.60	0.068	2.22
$y \sim ps + pl + \varepsilon$	1570.88	1.67	0.065	2.31
$y \sim ps + rr + \varepsilon$	1570.92	1.71	0.064	2.35
$y \sim ps + rp + pl + \varepsilon$	1571.07	1.86	0.060	2.54
$y \sim ps + rr + rp + \varepsilon$	1571.07	1.86	0.059	2.54
$y \sim rr + rp + pl + \varepsilon$	1571.33	2.12	0.052	2.89
$y \sim ps + rr + sr + \varepsilon$	1572.38	3.17	0.031	4.88
$y \sim sr + \varepsilon$	1572.44	3.24	0.030	5.05
$y \sim ps + rr + pl + \varepsilon$	1572.57	3.37	0.028	5.38
$y \sim ps + rr + pl + sr + \varepsilon$	1572.64	3.43	0.027	5.57
$y \sim ps + pl + sr + \varepsilon$	1572.69	3.48	0.026	5.71
$y \sim rp + sr + \varepsilon$	1572.72	3.51	0.026	5.79
$y \sim ps + rp + pl + sr + \varepsilon$	1572.84	3.63	0.025	6.15
$y \sim ps + rp + sr + \varepsilon$	1573.07	3.86	0.022	6.90
$y \sim rr + sr + \varepsilon$	1574.04	4.83	0.013	11.20
$y \sim rp + \varepsilon$	1574.07	4.86	0.013	11.36
$y \sim rp + pl + \varepsilon$	1574.18	4.97	0.013	12.03
$y \sim rp + pl + sr + \varepsilon$	1574.24	5.03	0.012	12.39
$y \sim ps + rr + rp + sr + \varepsilon$	1574.28	5.08	0.012	12.67
$y \sim pl + sr + \varepsilon$	1574.30	5.10	0.012	12.80
$y \sim ps + rr + rp + pl + \varepsilon$	1574.41	5.20	0.011	13.47
$y \sim ps + rr + rp + pl + sr + \varepsilon$	1574.60	5.40	0.011	14.85
$y \sim pl + \varepsilon$	1575.72	6.51	0.006	25.94
$y \sim 1 + \varepsilon$	1575.73	6.53	0.006	26.17
$y \sim rr + rp + sr + \varepsilon$	1575.92	6.71	0.005	28.68
$y \sim rr + rp + pl + sr + \varepsilon$	1575.95	6.75	0.005	29.19
$y \sim rr + rp + \varepsilon$	1575.97	6.76	0.005	29.38
$y \sim rr + pl + sr + \varepsilon$	1576.01	6.81	0.005	30.04
$y \sim rr + pl + \varepsilon$	1577.67	8.46	0.002	68.82
$y \sim rr + \varepsilon$	1577.72	8.52	0.002	70.71

[a] y = Guesser response, ps = pauses, rr = repetitions, rp = repairs, pl = prolongations, sr = speech rate, ε = error term (random intercepts for subjects and items)

[b] AICc weight (relative likelihood of model based on AICc value)

[c] Evidence ratio (likelihood of favouring the best model over the current model i)

Model output for best-supported model for the effect of speech variables on Guesser response.

Model of pauses on Guesser response				
Fixed effects				
	Estimate	SE	z value	p value
(Intercept)	0.24	0.78	3.06	$< .01$
pauses	−0.39	0.13	−2.95	$< .01$
Random effects				
		Variance	SD	
participants	(Intercept)	0.06	0.24	
items	(Intercept)	0.00	0.00	
No. of obs: 1147, groups: participant, 24; item, 96				

Summary of AICc results for models exploring the effect of gesture variables on predicting Speaker veracity. Models are ranked according to differences in Akaike's Information Criterion corrected for small sample sizes (AICc).

Model[a]	AICc	ΔAICc	w_i[b]	ER_i[c]
$y \sim ad + \varepsilon$	1516.03	0.00	0.264	1.00
$y \sim ad + il + \varepsilon$	1517.30	1.27	0.140	1.88
$y \sim ad + ey + \varepsilon$	1517.69	1.66	0.115	2.29
$y \sim ad + af + \varepsilon$	1517.94	1.91	0.102	2.60
$y \sim ad + il + ey + \varepsilon$	1518.68	2.64	0.070	3.75
$y \sim 1 + \varepsilon$	1519.14	3.11	0.056	4.73
$y \sim ad + af + il + \varepsilon$	1519.28	3.25	0.052	5.08
$y \sim ad + af + ey + \varepsilon$	1519.53	3.50	0.046	5.75
$y \sim il + \varepsilon$	1520.30	4.27	0.031	8.47
$y \sim ey + \varepsilon$	1520.45	4.42	0.029	9.13
$y \sim ad + af + il + ey + \varepsilon$	1520.61	4.58	0.027	9.87
$y \sim af + \varepsilon$	1521.15	5.12	0.020	12.91
$y \sim il + ey + \varepsilon$	1521.23	5.20	0.020	13.49
$y \sim af + il + \varepsilon$	1522.32	6.29	0.011	23.19
$y \sim af + ey + \varepsilon$	1522.42	6.39	0.011	24.44
$y \sim af + il + ey + \varepsilon$	1523.25	7.22	0.007	36.93

[a] y = Speaker veracity, ad = adaptors, af = affect displays, il = illustrators, ey = eye contact, ε = error term (random intercepts for subjects and items)
[b] AICc weight (relative likelihood of model based on AICc value)
[c] Evidence ratio (likelihood of favouring the best model over the current model i)

Model output for best-supported model for the effect of gesture variables on Speaker veracity.

Model of adaptors on Speaker veracity				
Fixed effects				
		Estimate	SE	z value	p value
(Intercept)		0.18	0.08	2.11	.04
adaptors		−0.29	0.13	−2.26	.02
Random effects				
			Variance	SD	
participants	(Intercept)		0.08	0.28	
items	(Intercept)		0.06	0.23	
No. of obs: 1101, groups: participant, 23; item, 96					

Summary of AICc results for models exploring the effect of gesture variables on predicting Guesser response. Models are ranked according to differences in Akaike's Information Criterion corrected for small sample sizes (AICc).

Model[a]	AICc	ΔAICc	w_i[b]	ER_i[c]
$y \sim af + \varepsilon$	1508.12	0.00	0.281	1.00
$y \sim af + il + \varepsilon$	1509.76	1.62	0.124	2.27
$y \sim ad + af + \varepsilon$	1510.08	1.97	0.105	2.67
$y \sim af + ey + \varepsilon$	1510.08	1.97	0.105	2.67
$y \sim 1 + \varepsilon$	1510.36	2.24	0.092	3.06
$y \sim ad + af + il + \varepsilon$	1511.72	3.60	0.046	6.06
$y \sim af + il + ey + \varepsilon$	1511.76	3.65	0.045	6.20
$y \sim ad + af + ey + \varepsilon$	1512.06	3.95	0.039	7.19
$y \sim il + \varepsilon$	1512.24	4.12	0.036	7.87
$y \sim ey + \varepsilon$	1512.37	4.25	0.033	8.39
$y \sim ad + \varepsilon$	1512.37	4.25	0.033	8.39
$y \sim ad + af + il + ey + \varepsilon$	1513.73	5.62	0.017	16.60
$y \sim il + ey + \varepsilon$	1514.26	6.14	0.013	21.55
$y \sim ad + il + \varepsilon$	1514.26	6.14	0.013	21.57
$y \sim ad + ey + \varepsilon$	1514.39	6.27	0.012	23.01
$y \sim ad + il + ey + \varepsilon$	1516.28	8.16	0.005	59.21

[a] y = Guesser response, ad = adaptors, af = affect displays, il = illustrators, ey = eye contact, ε = error term (random intercepts for subjects and items)
[b] AICc weight (relative likelihood of model based on AICc value)
[c] Evidence ratio (likelihood of favouring the best model over the current model i)

Model output for best-supported model for the effect of gesture variables on Guesser response.

Model of affect displays on Guesser response				
Fixed effects				
		Estimate	SE	z value	p value
(Intercept)		0.23	0.90	2.57	.01
affect displays		0.29	0.14	2.05	.04
Random effects				
			Variance	SD	
participants	(Intercept)		< 0.01	< 0.01	
items	(Intercept)		< 0.01	< 0.01	
No. of obs: 1101, groups: participant, 23; item, 96					