

Supplementary Materials:

Supplemental Table 1: Pilot study on movie synopsis data

Story	Time mean	Time std	Desire mean	Desire std	Interest mean	Interest std	chosen	Good Reads link	Number of Hebrew words
1	43.5	16.57	5.59	2.16	5.25	1.9	0		
2	44.2	12.4	5.68	2.2	5.59	1.86	1	link	147
3	80.67	55.52	5.29	2.67	5.73	2.2	1	link	217
4	60.34	45.56	5.17	2.14	5.6	1.67	1	link	161
5	50.11	21.29	6.07	1.79	6.61	1.41	1	link	162
6	60.26	23.16	4.67	2	5.39	1.72	1	link	183
7	56.09	16.84	3.51	2.25	4.41	2.17	0		
8	53.24	19.7	5.54	2.17	6.78	1.47	0		
9	62.98	42.5	5.8	1.96	5.84	1.65	1	link	179
10	68.85	48.84	4.61	2.22	5.12	2	0		
11	57.89	26.2	5.04	2.37	5.79	2.06	1	link	174
12	46.99	13.36	4.6	2.17	5.15	2.13	0		
13	52.94	19.34	5.3	1.99	5.58	1.88	1	link	162
14	52.27	18.81	5.55	1.78	6.31	1.49	1	link	162
15	54.97	27.69	5.24	1.96	5.36	1.6	1	link	156
16	46.4	16.8	6.03	2.29	6.25	1.79	0	link	148
17	52.08	25.44	3.51	2.03	3.87	1.93	0		
18	45.32	17.74	6.67	1.9	6.64	1.72	0		
19	39.05	11.77	5.63	2.02	6.51	1.75	1	link	130
20	48.68	16.47	6.03	1.92	5.89	1.69	1	link	167
21	47.46	17.5	5.28	1.93	5.19	1.74	0		
22	70.28	43.29	5.05	2.32	5.09	2.24	0		
23	47.03	17.37	5.99	2.29	6.52	1.95	1	link	145
24	51.5	16.49	4.95	2.49	5.42	2.14	1	link	164
25	50.3	17.86	4.65	2.23	5.66	2.12	1	link	150

Supplemental Table 2: Reading phase cluster-level comparison of chosen and unchosen synopses

Cluster	Type	t-value	p-value
1	Listeners' muscle activation	1.293	0.197
2	Listeners' muscle activation	1.226	0.222
3	Listeners' muscle activation	1.489	0.138
4	Listeners' muscle activation	0.220	0.826
5	Listeners' muscle activation	0.456	0.649
6	Listeners' muscle activation	2.114	0.036
7	Listeners' muscle activation	0.214	0.831
8	Listeners' muscle activation	1.854	0.065
9	Listeners' muscle activation	0.407	0.684
10	Listeners' muscle activation	1.963	0.051
11	Listeners' muscle activation	1.509	0.133
12	Listeners' muscle activation	0.075	0.940
13	Listeners' muscle activation	0.799	0.425
14	Listeners' muscle activation	0.166	0.869
15	Listeners' muscle activation	0.152	0.879
16	Listeners' muscle activation	0.364	0.716
1	Mimicry	0.294	0.769
2	Mimicry	-0.904	0.367
3	Mimicry	0.095	0.924
4	Mimicry	-0.638	0.524
5	Mimicry	-1.057	0.292
6	Mimicry	1.679	0.095
7	Mimicry	-0.107	0.915
8	Mimicry	2.523	0.013
9	Mimicry	-0.368	0.713
10	Mimicry	2.166	0.032
11	Mimicry	1.205	0.230
12	Mimicry	1.021	0.309
13	Mimicry	-0.163	0.871
14	Mimicry	2.070	0.040
15	Mimicry	-0.200	0.842
16	Mimicry	0.757	0.451

Supplemental Table 3: Descriptives for the reading phase

Cluster	Type	N_S1	Mean_S1	SD_S1	N_S2	Mean_S2	SD_S2
1	listeners' muscle activation	212	0.265	0.208	212	0.259	0.204
2	listeners' muscle activation	200	0.441	0.251	200	0.437	0.259
3	listeners' muscle activation	208	0.532	0.252	208	0.526	0.268
4	listeners' muscle activation	206	0.47	0.239	206	0.458	0.242
5	listeners' muscle activation	198	0.476	0.241	198	0.467	0.24
6	listeners' muscle activation	190	0.399	0.229	190	0.399	0.244
7	listeners' muscle activation	178	0.506	0.253	178	0.516	0.273
8	listeners' muscle activation	188	0.468	0.223	188	0.468	0.235
9	listeners' muscle activation	212	0.465	0.207	212	0.482	0.207
10	listeners' muscle activation	206	0.554	0.211	206	0.557	0.215
11	listeners' muscle activation	180	0.514	0.222	180	0.508	0.238
12	listeners' muscle activation	188	0.561	0.244	188	0.548	0.246
13	listeners' muscle activation	198	0.532	0.247	198	0.543	0.249
14	listeners' muscle activation	206	0.598	0.214	206	0.643	0.246
15	listeners' muscle activation	146	0.611	0.241	146	0.627	0.249
16	listeners' muscle activation	170	0.573	0.221	170	0.584	0.236
1	mimicry	212	0.355	0.036	212	0.353	0.038
2	mimicry	192	0.344	0.04	192	0.343	0.039
3	mimicry	204	0.329	0.037	204	0.328	0.037
4	mimicry	200	0.345	0.038	200	0.343	0.039
5	mimicry	184	0.342	0.037	184	0.336	0.034
6	mimicry	176	0.354	0.047	176	0.348	0.043
7	mimicry	148	0.341	0.042	148	0.338	0.039
8	mimicry	164	0.347	0.036	164	0.347	0.037
9	mimicry	212	0.365	0.044	212	0.358	0.041
10	mimicry	200	0.34	0.039	200	0.343	0.041
11	mimicry	156	0.342	0.041	156	0.342	0.043
12	mimicry	168	0.347	0.048	168	0.342	0.045
13	mimicry	184	0.329	0.034	184	0.327	0.032
14	mimicry	200	0.332	0.033	200	0.328	0.028
15	mimicry	104	0.333	0.034	104	0.329	0.033
16	mimicry	136	0.342	0.041	136	0.335	0.038

S1 = Synopsis 1; S2 = Synopsis 2.

N = number of non-missing observations (maximum = 212, based on 53 dyads × 4 synopsis pairs).

Mimicry is computed from the listener to the speaker (i.e., the listener mimics the speaker).

Supplemental Table 4: Descriptive for the listening phase

Cluster	Type	N_S1	Mean_S1	SD_S1	N_S2	Mean_S2	SD_S2
6	listeners' muscle activation	190	0.419	0.244	190	0.405	0.251
10	listeners' muscle activation	206	0.56	0.223	206	0.56	0.228
6	mimicry	190	0.367	0.049	190	0.366	0.054
10	mimicry	206	0.344	0.035	206	0.345	0.036

S1 = Synopsis 1; S2 = Synopsis 2.

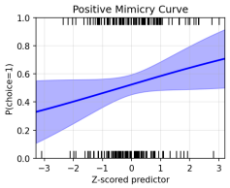
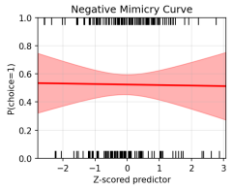
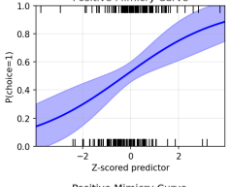
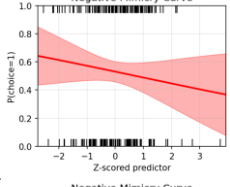
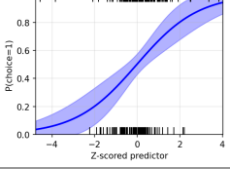
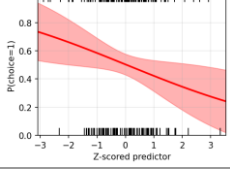
N represents the number of non-missing observations. The maximum possible value is 212, based on 53 dyads × 2 synopsis pairs × 2 participants (since both participants acted as listeners in the listening phase).

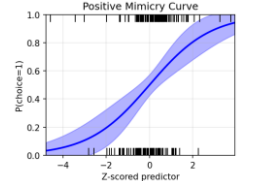
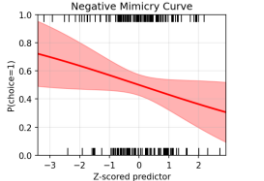
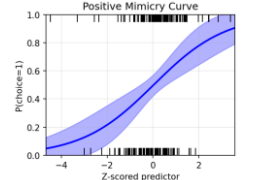
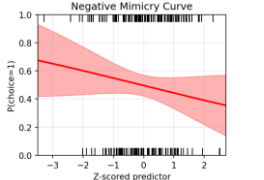
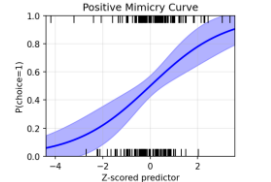
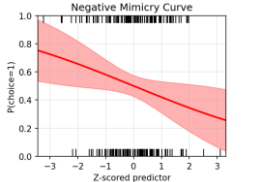
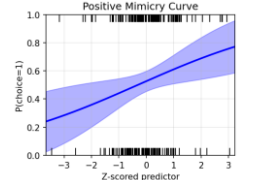
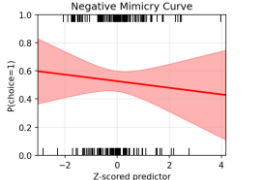
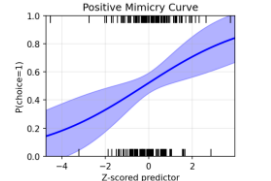
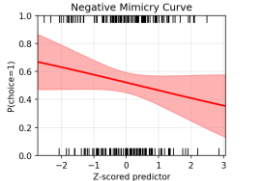
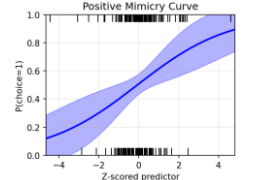
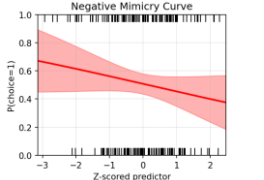
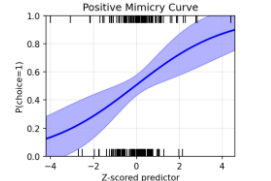
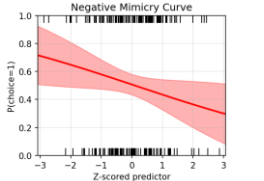
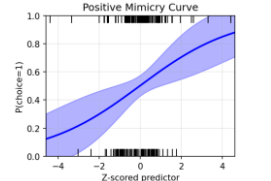
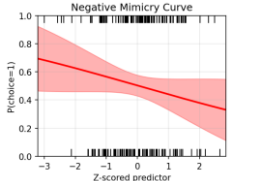
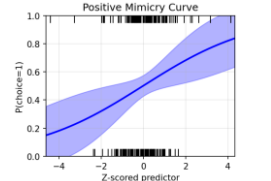
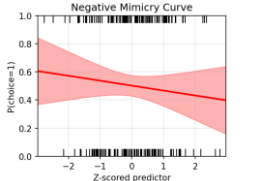
Mimicry is presented only for smiles (clusters 6 and 10), from the listener to the offline actress (i.e., the listener mimics the offline actress smiles).

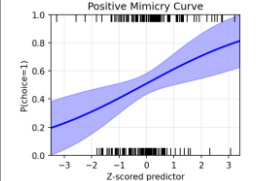
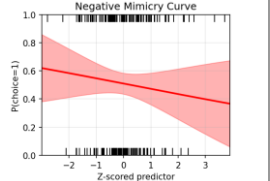
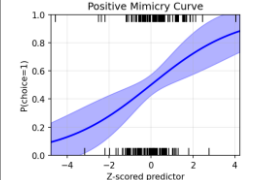
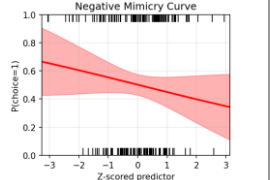
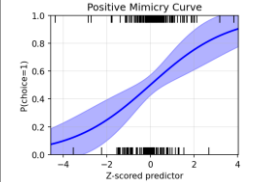
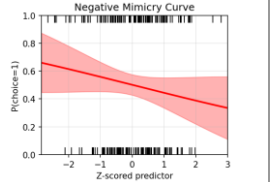
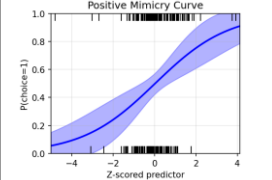
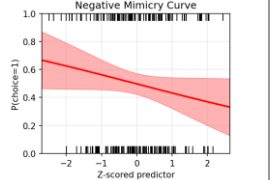
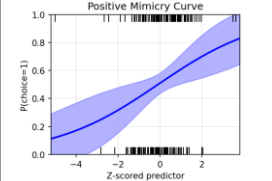
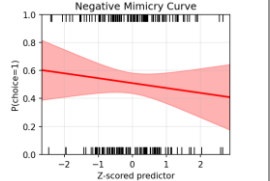
Supplemental Table 5: Systematically comparing modelling results across different window sizes and lags.

The table below presents the results of our main theory-driven model, tested across three window sizes (3, 4 and 5 seconds) and five max-lag values (25%, 50%, 75%, 100%, 125% and 150% of the window size).

Levels of significance are marked as follows in the table below: *** denotes $p < .001$, ** denotes $p < .01$, * denotes $p < .05$, . denotes $p < .10$.

Window size (s)	Max Lag (s)	Positive beta (p-value)	Negative beta (p-value)	Model Accuracy	Positive Curve	Negative Curve
3.00	0.75	0.245 (0.104)	-0.015 (0.922)	0.55		
3.00	1.50	0.487 ** (0.00408)	-0.169 (0.285)	0.57		
3.00	2.25	0.695 *** (0.000244)	-0.327 . (0.0517)	0.63		

3.00	3.00	0.707 *** (0.000262)	-0.280 . (0.0931)	0.61		
3.00	3.75	0.635 *** (0.000722)	-0.213 (0.199)	0.62		
3.00	4.50	0.631 *** (0.000594)	-0.323 . (0.0566)	0.60		
4.00	1.00	0.344 * (0.0308)	-0.094 (0.54)	0.59		
4.00	2.00	0.397 * (0.0137)	-0.225 (0.15)	0.59		
4.00	3.00	0.436 * (0.0108)	-0.218 (0.164)	0.57		
4.00	4.00	0.470 ** (0.00702)	-0.291 . (0.075)	0.59		
4.00	5.00	0.429 * (0.0171)	-0.252 (0.131)	0.54		
4.00	6.00	0.378 * (0.0306)	-0.141 (0.386)	0.56		

5.00	1.25	0.418 * (0.0167)	-0.150 (0.367)	0.60		
5.00	2.50	0.477 ** (0.00532)	-0.209 (0.195)	0.62		
5.00	3.75	0.554 ** (0.00247)	-0.230 (0.157)	0.60		
5.00	5.00	0.565 ** (0.00241)	-0.262 (0.113)	0.60		
5.00	6.25	0.403 * (0.019)	-0.142 (0.384)	0.59		
5.00	7.50	0.433 * (0.0139)	-0.148 (0.375)	0.61	