

Augmented Student Pool Stats

The following pages include the full statistical test result tables for the university-student-focused study (i.e., first study) outlined in the manuscript body. This information includes the complete post hoc testing results.

Results

Repeated Measures ANOVA on Warmth

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Within Subjects Effects									
Behavior	Greenhouse-Geisser	0.176	1.95	0.0899	0.443	0.6382	0.000	0.000	0.006
Residual	Greenhouse-Geisser	29.726	146.56	0.2028					
Speech	Greenhouse-Geisser	125.275	1.37	91.1282	65.850	2.16e-15	0.171	0.171	0.468
Residual	Greenhouse-Geisser	142.682	103.10	1.3839					
Behavior * Speech	Greenhouse-Geisser	2.002	3.68	0.5442	2.141	0.0817	0.003	0.003	0.028
Residual	Greenhouse-Geisser	70.116	275.89	0.2541					

Note. Type 3 Sums of Squares
[3]

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Between Subjects Effects								
Residual	363	75	4.85					

Note. Type 3 Sums of Squares

Post Hoc Tests

Comparison							
Speech	Speech	Mean Difference	SE	df	t	P _{tukey}	
Post Hoc Comparisons - Speech							
No Speech	- Non-explicit	-0.8604	0.1074	75.0	-8.01	0.000	
	- Explicit	-0.9488	0.1038	75.0	-9.14	0.000	
Non-explicit	- Explicit	-0.0885	0.0523	75.0	-1.69	0.215	

[4]

Estimated Marginal Means

Speech

Speech	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Speech				
No Speech	1.86	0.0696	1.72	2.00
Non-explicit	2.72	0.1161	2.49	2.95
Explicit	2.81	0.1062	2.60	3.02

[4]

Repeated Measures ANOVA on Competence

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Within Subjects Effects									
Behavior	Greenhouse-Geisser	0.212	2.00	0.106	0.574	0.564	0.000	0.000	0.008
Residual	Greenhouse-Geisser	27.695	149.88	0.185					
Speech	Greenhouse-Geisser	63.950	1.32	48.371	42.741	5.29e-11	0.082	0.082	0.363
Residual	Greenhouse-Geisser	112.217	99.15	1.132					
Behavior * Speech	Greenhouse-Geisser	1.154	3.58	0.323	0.994	0.405	0.002	0.001	0.013
Residual	Greenhouse-Geisser	87.050	268.17	0.325					

Note. Type 3 Sums of Squares

[3]

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Between Subjects Effects								
Residual	486	75	6.48					

Note. Type 3 Sums of Squares

Post Hoc Tests

Comparison							
Speech	Speech	Mean Difference	SE	df	t	Ptukey	
Post Hoc Comparisons - Speech							
No Speech	- Non-explicit	-0.6272	0.0895	75.0	-7.006	2.61e-9	
	- Explicit	-0.6681	0.0985	75.0	-6.781	7.03e-9	
Non-explicit	- Explicit	-0.0409	0.0443	75.0	-0.923	0.627	

[4]

Estimated Marginal Means

Speech

Speech	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Speech				
No Speech	2.47	0.0957	2.28	2.66
Non-explicit	3.10	0.1140	2.87	3.33
Explicit	3.14	0.1132	2.92	3.37

[4]

Repeated Measures ANOVA on Discomfort

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Within Subjects Effects									
Behavior	Greenhouse-Geisser	0.204	2.00	0.102	0.934	0.3950	0.001	0.001	0.012
Residual	Greenhouse-Geisser	16.358	149.69	0.109					
Speech	Greenhouse-Geisser	4.899	1.66	2.943	10.341	1.95e-4	0.016	0.016	0.121
Residual	Greenhouse-Geisser	35.533	124.87	0.285					
Behavior * Speech	Greenhouse-Geisser	1.869	3.64	0.513	2.777	0.0318	0.006	0.006	0.036
Residual	Greenhouse-Geisser	50.459	273.19	0.185					

Note. Type 3 Sums of Squares

[3]

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Between Subjects Effects								
Residual	197	75	2.63					

Note. Type 3 Sums of Squares

Post Hoc Tests

Comparison		Mean Difference	SE	df	t	P _{tukey}
Speech	Speech					
Post Hoc Comparisons - Speech						
No Speech	- Non-explicit	0.0270	0.0371	75.0	0.729	0.74702
	- Explicit	-0.1645	0.0544	75.0	-3.023	0.00949
Non-explicit	- Explicit	-0.1915	0.0436	75.0	-4.396	1.05e-4

[4]

Estimated Marginal Means

Speech

Speech	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Speech				
No Speech	2.17	0.0633	2.05	2.30
Non-explicit	2.15	0.0597	2.03	2.26
Explicit	2.34	0.0777	2.18	2.49

[4]

Repeated Measures ANOVA on IOS

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Within Subjects Effects									
Behavior	Greenhouse-Geisser	1.07	2.00	0.537	2.10	0.126	0.001	0.001	0.027
Residual	Greenhouse-Geisser	38.26	149.95	0.255					
Speech	Greenhouse-Geisser	81.23	1.73	46.826	29.28	3.02e-10	0.093	0.093	0.281
Residual	Greenhouse-Geisser	208.10	130.11	1.599					
Behavior * Speech	Greenhouse-Geisser	1.79	3.69	0.485	1.46	0.217	0.002	0.002	0.019
Residual	Greenhouse-Geisser	91.55	276.43	0.331					

Note. Type 3 Sums of Squares
[3]

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Between Subjects Effects								
Residual	450	75	6.00					

Note. Type 3 Sums of Squares

Post Hoc Tests

Comparison						
Speech	Speech	Mean Difference	SE	df	t	P _{tukey}
Post Hoc Comparisons - Speech						
No Speech	- Non-explicit	-0.509	0.1090	75.0	-4.67	3.83e-5
	- Explicit	-0.838	0.1282	75.0	-6.54	2.03e-8
Non-explicit	- Explicit	-0.329	0.0906	75.0	-3.63	0.00147

[4]

Estimated Marginal Means

Speech

Speech	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Speech				
No Speech	1.30	0.0673	1.17	1.44
Non-explicit	1.81	0.1218	1.57	2.05
Explicit	2.14	0.1383	1.86	2.42

[4]

Repeated Measures ANOVA on JRS

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Within Subjects Effects									
Behavior	Greenhouse-Geisser	1.40	1.85	0.756	3.41	0.0393	0.002	0.002	0.044
Residual	Greenhouse-Geisser	30.70	138.68	0.221					
Speech	Greenhouse-Geisser	90.07	1.62	55.446	47.80	4.30e-14	0.116	0.115	0.389
Residual	Greenhouse-Geisser	141.31	121.83	1.160					
Behavior * Speech	Greenhouse-Geisser	2.14	3.60	0.596	1.94	0.1107	0.003	0.003	0.025
Residual	Greenhouse-Geisser	82.71	269.95	0.306					

Note. Type 3 Sums of Squares

[3]

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Between Subjects Effects								
Residual	433	75	5.78					

Note. Type 3 Sums of Squares

Post Hoc Tests

Comparison			Mean Difference	SE	df	t	P _{tukey}
Speech		Speech					
Post Hoc Comparisons - Speech							
No Speech	-	Non-explicit	-0.515	0.0796	75.0	-6.47	2.65e-8
	-	Explicit	-0.885	0.1106	75.0	-8.00	0.00
Non-explicit	-	Explicit	-0.370	0.0788	75.0	-4.69	3.59e-5

Comparison		Mean Difference	SE	df	t	P _{tukey}
Behavior	Behavior					
Post Hoc Comparisons - Behavior						
A	- B	-0.1069	0.0478	75.0	-2.238	0.0713
	- C	-0.0285	0.0412	75.0	-0.692	0.7686
B	- C	0.0784	0.0376	75.0	2.088	0.0992

[4]

Estimated Marginal Means

Speech

Speech	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Speech				
No Speech	2.72	0.0850	2.55	2.89
Non-explicit	3.24	0.1113	3.01	3.46
Explicit	3.61	0.1182	3.37	3.84

Behavior

			95% Confidence Interval	
Behavior	Mean	SE	Lower	Upper
Estimated Marginal Means - Behavior				
A	3.14	0.0972	2.95	3.34
B	3.25	0.0952	3.06	3.44
C	3.17	0.0928	2.99	3.36

[4]

Repeated Measures ANOVA on Anthropomorphism

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Within Subjects Effects									
Behavior	Greenhouse-Geisser	0.330	1.96	0.169	0.584	0.555	0.000	0.000	0.008
Residual	Greenhouse-Geisser	42.355	146.78	0.289					
Speech	Greenhouse-Geisser	57.897	1.51	38.403	40.949	7.81e-12	0.075	0.075	0.353
Residual	Greenhouse-Geisser	106.041	113.07	0.938					
Behavior * Speech	Greenhouse-Geisser	1.026	3.55	0.289	0.992	0.406	0.001	0.001	0.013
Residual	Greenhouse-Geisser	77.543	266.53	0.291					

Note. Type 3 Sums of Squares
[3]

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Between Subjects Effects								
Residual	489	75	6.53					

Note. Type 3 Sums of Squares

Post Hoc Tests

Comparison							
Speech	Speech	Mean Difference	SE	df	t	P _{tukey}	
Post Hoc Comparisons - Speech							
No Speech	- Non-explicit	-0.548	0.0845	75.0	-6.49	2.44e-8	
	- Explicit	-0.668	0.0933	75.0	-7.17	1.25e-9	
Non-explicit	- Explicit	-0.120	0.0527	75.0	-2.28	0.0646	

[4]

Estimated Marginal Means

Speech

Speech	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Speech				
No Speech	1.85	0.0820	1.68	2.01
Non-explicit	2.40	0.1170	2.16	2.63
Explicit	2.52	0.1200	2.28	2.76

[4]

Repeated Measures ANOVA on Likeability

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Within Subjects Effects									
Behavior	Greenhouse-Geisser	2.15	1.88	1.146	3.31	0.0424	0.003	0.003	0.042
Residual	Greenhouse-Geisser	48.68	140.68	0.346					
Speech	Greenhouse-Geisser	33.64	1.87	17.980	17.24	4.01e-7	0.041	0.040	0.187
Residual	Greenhouse-Geisser	146.36	140.34	1.043					
Behavior * Speech	Greenhouse-Geisser	3.36	3.81	0.880	2.51	0.0446	0.004	0.004	0.032
Residual	Greenhouse-Geisser	100.27	286.07	0.350					

Note. Type 3 Sums of Squares

[3]

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Between Subjects Effects								
Residual	497	75	6.63					

Note. Type 3 Sums of Squares

Post Hoc Tests

Comparison			Mean Difference	SE	df	t	Ptukey
Speech	Speech						
Post Hoc Comparisons - Speech							
No Speech	-	Non-explicit	-0.539	0.0970	75.0	-5.55	1.20e-6
	-	Explicit	-0.331	0.0997	75.0	-3.32	0.00397
Non-explicit	-	Explicit	0.208	0.0796	75.0	2.61	0.02894

Comparison		Mean Difference	SE	df	t	P _{tukey}
Behavior	Behavior					
Post Hoc Comparisons - Behavior						
A	- B	-0.1018	0.0597	75.0	-1.704	0.2103
	- C	-0.1307	0.0511	75.0	-2.555	0.0334
B	- C	-0.0289	0.0486	75.0	-0.596	0.8228

[4]

Estimated Marginal Means

Speech

Speech	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Speech				
No Speech	3.23	0.105	3.02	3.44
Non-explicit	3.77	0.118	3.53	4.00
Explicit	3.56	0.112	3.33	3.78

Behavior

Behavior	Mean	SE	95% Confidence Interval	
			Lower	Upper
Estimated Marginal Means - Behavior				
A	3.44	0.102	3.24	3.64
B	3.54	0.107	3.33	3.76
C	3.57	0.100	3.37	3.77

[4]

References

- [1] The jamovi project (2024). *jamovi*. (Version 2.6) [Computer Software]. Retrieved from <https://www.jamovi.org>.
- [2] R Core Team (2024). *R: A Language and environment for statistical computing*. (Version 4.4) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from CRAN snapshot 2024-08-07).
- [3] Singmann, H. (2023). *afex: Analysis of Factorial Experiments*. [R package]. Retrieved from <https://cran.r-project.org/package=afex>.
- [4] Lenth, R. (2023). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. [R package]. Retrieved from <https://cran.r-project.org/package=emmeans>.