

Table S1. Comparison of student-written with full-keyword AI-generated essays*

	LIWC values, median (IQR)			Overall			ChatGPT-generated vs. student-written essays		Bard-generated vs. student-written essays		Bard-generated vs. ChatGPT-generated essays	
	Student-written essays (n = 47)	ChatGPT-generated essays (n = 47)	Bard-generated essays (n = 47)	χ^2	df	p-value	w	p-value	w	p-value	w	p-value
Analytical thinking	71.4 (59.2–84)	90.5 (82.6–93.5)	52.8 (46.4–66.1)	68.689	2	<0.001	–7.47	<0.001	5.22	<0.001	11.1	<0.001
Clout	41 (27.2–54.2)	36.5 (23.4–48.3)	40.8 (23.3–63.5)	2.619	2	0.27	2.069	0.309	–0.15	0.994	–1.888	0.376
Authentic	31.8 (24.3–53.3)	44.4 (34.6–62.5)	27.9 (12.1–42.3)	15.085	2	<0.001	–3.87	0.017	2.01	0.33	5.13	<0.001
Tone	22.2 (11.9–39.2)	34.3 (22.8–48.4)	33.9 (22–46.8)	8.133	2	0.017	–3.962	0.014	–2.887	0.103	0.594	0.907
Drives	4.14 (3.31–5.32)	5.58 (4.64–6.8)	4.9 (3.85–5.89)	13.576	2	0.001	–5.15	<0.001	–2.13	0.289	3.08	0.075
Affiliation	1.39 (0.885–2.25)	2.13 (1.64–3.08)	1.63 (0.87–2.67)	14.343	2	<0.001	–5.33	<0.001	–1.04	0.741	3.67	0.025
Achievement	1.17 (0.83–1.72)	1.71 (1.22–2.25)	1.25 (0.705–1.94)	8.259	2	0.016	–3.7	0.024	0.278	0.979	3.326	0.049
Power	1.29 (1.01–1.76)	1.67 (1.2–2.13)	1.47 (1.14–1.92)	4.315	2	0.116	–2.89	0.102	–1.71	0.447	1.27	0.643
Cognition	15 (13.5–16.8)	11.1 (10–12.4)	14.4 (12.1–15.2)	47.203	2	<0.001	9.05	<0.001	3.55	0.032	–6.88	<0.001
All-or-none	0.8 (0.52–1.18)	0.37 (0.2–0.43)	0.7 (0.51–1.03)	34.779	2	<0.001	6.867	<0.001	0.776	0.847	–7.559	<0.001
Cognitive processes	13.9 (12.6–15.8)	10.7 (9.65–11.6)	13.3 (11.2–14.3)	39.716	2	<0.001	8.54	<0.001	3.25	0.057	–5.95	<0.001
<i>Insight</i>	3.44 (2.46–4.09)	4.04 (3.27–4.68)	4.51 (3.71–4.92)	12.939	2	0.002	–3.68	0.025	–4.69	0.003	–1.84	0.395

<i>Causation</i>	1.96 (1.43–2.51)	1.24 (0.945–1.63)	1.47 (1.06–1.98)	17.411	2	<0.001	5.68	<0.001	3.69	0.025	–2.49	0.183
<i>Discrepancy</i>	1.76 (1.29–2.57)	1.11 (0.805–1.67)	2.05 (1.5–2.49)	29.566	2	<0.001	5.64	<0.001	–1.2	0.674	–7.43	<0.001
<i>Tentative</i>	2.17 (1.48–3.25)	1.37 (0.825–1.67)	1.67 (1.17–2.04)	27.568	2	<0.001	7.1	<0.001	4.34	0.006	–3.68	0.025
<i>Certitude</i>	0.53 (0.2–0.895)	0.21 (0–0.41)	0.17 (0–0.46)	15.017	2	<0.001	4.783	0.002	4.646	0.003	0.645	0.892
<i>Differ</i>	4.22 (3.08–4.87)	1.99 (1.63–2.36)	3.01 (2.59–3.69)	61.041	2	<0.001	9.76	<0.001	5.6	<0.001	–7.75	<0.001
Affect	4.27 (3.42–5.22)	5.66 (4.71–6.79)	5.54 (4.57–6.71)	21.35	2	<0.001	–5.599	<0.001	–5.69	<0.001	0.46	0.943
Positive tone	2.21 (1.75–2.65)	3.13 (2.52–3.59)	3.1 (2.25–3.66)	22.781	2	<0.001	–6.134	<0.001	–5.518	<0.001	0.267	0.981
Negative tone	2.02 (1.19–2.81)	1.96 (1.44–2.62)	2.01 (1.56–2.76)	1.403	2	0.496	–0.492	0.936	–1.588	0.5	–1.198	0.674
Emotion	1.22 (0.9–2.2)	2.14 (1.56–3.15)	1.46 (0.945–2.12)	15.62	2	<0.001	–4.989	0.001	–0.62	0.9	4.631	0.003
<i>Positive emotion</i>	0.4 (0.125–0.605)	0.55 (0.28–0.8)	0.36 (0.17–0.59)	5.116	2	0.077	–2.721	0.132	–0.15	0.994	2.808	0.116
<i>Negative emotion</i>	0.83 (0.4–1.28)	1.2 (0.615–1.46)	0.79 (0.435–1.36)	3.811	2	0.149	–2.589	0.16	–0.626	0.898	2.075	0.307
<i>Anxiety</i>	0 (0–0.22)	0.36 (0.2–0.6)	0.2 (0–0.36)	16.198	2	<0.001	–5.46	<0.001	–3.13	0.069	3.05	0.079
<i>Anger</i>	0 (0–0.195)	0 (0–0.195)	0 (0–0.195)	1.465	2	0.481	1.356	0.603	–0.301	0.975	–1.602	0.494
<i>Sadness</i>	0 (0–0.095)	0.2 (0–0.385)	0 (0–0.2)	9.397	2	0.009	–4.18	0.009	–2.07	0.308	2.51	0.178
Social processes	12.4 (10.5–15)	12.1 (10.5–14)	14.5 (12.8–17)	16.27	2	<0.001	0.866	0.814	–4.374	0.006	–5.363	<0.001
Social behavior	4.83 (3.8–5.56)	7.04 (5.5–7.67)	5.94 (5.29–6.77)	24.402	2	<0.001	–6.26	<0.001	–4.79	0.002	3.49	0.036
<i>Prosocial behavior</i>	0.55 (0.29–1.29)	1.6 (1.06–2.33)	1.09 (0.845–1.73)	22.609	2	<0.001	–6.33	<0.001	–4.3	0.007	3.05	0.078
<i>Politeness</i>	0 (0–0.225)	0 (0–0.2)	0 (0–0.18)	1.291	2	0.524	1.5481	0.518	1.2101	0.669	–0.0425	1

<i>Interpersonal conflict</i>	0.21 (0–0.51)	0.21 (0.09–0.43)	0.35 (0.145–0.5)	0.517	2	0.772	–0.308	0.974	–0.96	0.776	–0.728	0.864
<i>Moralization</i>	0.93 (0.4–1.33)	1.74 (1.4–2.04)	1 (0.67–1.31)	40.468	2	<0.001	–7.81	<0.001	–1.2	0.674	7.67	<0.001
<i>Communication</i>	1.77 (1.19–2.37)	1.28 (0.825–1.65)	1.81 (1.27–2.62)	13.079	2	0.001	3.89	0.016	–1.07	0.73	–4.78	0.002

*Kruskal-Wallis test with Dwass-Steel-Critchlow-Fligner pairwise comparisons.

Table S2. Comparison of partial vs. full keyword AI-generated essays

LIWC results, median (IQR)				
	ChatGPT-generated partial keyword essays (n = 47)	ChatGPT-generated full keyword essays (n = 47)	Statistic	<i>p</i> -value*
Analytical thinking	87.5 (85.3–92.6)	90.5 (82.6–93.5)	1095	0.946
Clout	31.3 (19.1–45.7)	36.5 (23.4–48.3)	985	0.37
Authentic	47.3 (33.1–62.3)	44.4 (34.6–62.5)	1069	0.792
Tone	39.7 (29.3–57.7)	34.3 (22.8–48.4)	955	0.26
Drives	5.51 (4.63–6.82)	5.58 (4.64–6.8)	1097	0.958
Cognition	11.8 (10.7–13.1)	11.1 (10–12.4)	861	0.066
Affect	5.79 (4.68–7.19)	5.66 (4.71–6.79)	1049	0.675
Social processes	12.4 (10.3–14.7)	12.1 (10.5–14)	1059	0.731
	Bard-generated partial keyword essays (n = 47)	Bard-generated full keyword essays (n = 47)	Statistic	<i>p</i> -value*
Analytical thinking	43.6 (32.1–59.2)	52.8 (46.4–66.1)	766	0.010
Clout	46.5 (29.4–64.5)	40.8 (23.3–63.5)	979	0.345
Authentic	24.1 (9.71–44.2)	27.9 (12.1–42.3)	1039	0.623
Tone	29 (14.2–48.2)	33.9 (22–46.8)	1006	0.460
Drives	4.63 (3.67–5.36)	4.9 (3.85–5.89)	954	0.255
Cognition	13.6 (12.8–15.7)	14.4 (12.1–15.2)	999	0.425
Affect	5.89 (5.13–6.61)	5.54 (4.57–6.71)	977	0.337
Social processes	17.4 (14–18.6)	14.5 (12.8–17)	839	0.045

*Mann-Whitney U. $p < 0.004$ considered as significance threshold after Bonferroni correction.

Table S3. Comparison of original vs. partial keyword Bard essays for variables where difference existed between partial and full keyword essays (n = 47)

LIWC value, median (IQR)				
	Student-written essays (n = 47)	Bard-generated essays (n = 47)	Statistic	<i>p</i> -value*
Word count	503 (465–593)	539 (465–591)	1050.0	0.683
Analytical thinking	71.4 (59.2–84)	43.6 (32.1–59.2)	438.0	<0.001
Social processes	12.4 (10.5–15)	17.4 (14–18.6)	459.0	<0.001
Social behavior	4.83 (3.8–5.56)	6.38 (4.46–7.54)	711.0	0.003

Prosocial behavior	0.55 (0.29–1.29)	1.27 (0.735–1.94)	633.0	<0.001
Politeness	0 (0–0.225)	0 (0–0.19)	1027.5	0.520
Intepersonal conflict	0.21 (0–0.51)	0.19 (0–0.41)	1003.0	0.437
Moralization	0.93 (0.4–1.33)	0.91 (0.51–1.46)	1016.5	0.508
Communication	1.77 (1.19–2.37)	1.94 (1.29–2.71)	934.5	0.200

*Mann-Whitney U. $p < 0.004$ considered as significance threshold after Bonferroni correction.

Table S4. Comparison of AI-cowritten student-written essays and “true” student-written essays*

	AI-cowritten student-written essays	True student-written essays	Statistic	<i>p</i> -value
Analytical thinking	77.6 (71.1–92.1)	67.4 (54–74.8)	129.5	0.008
Clout	51 (38.6–56.5)	34.5 (26.5–48)	162.5	0.056
Authentic	26 (14.1–29)	38.6 (29.2–54.3)	102	0.001
Tone	34.8 (12.4–59)	20.2 (11.6–32.8)	171	0.086
Drives	4.28 (3.43–6.05)	4.08 (3.29–4.9)	212	0.43
Affiliation	1.32 (0.927–2.24)	1.53 (0.845–2.3)	247	0.991
Achievement	1.46 (0.917–2.35)	1.13 (0.83–1.61)	200	0.286
Power	1.49 (1.06–2.12)	1.19 (1–1.67)	194	0.23
Cognition	14.2 (12.5–15.6)	15.6 (13.5–17.4)	173	0.094
All-or-none	0.485 (0–0.848)	0.88 (0.67–1.21)	130	0.008
Cognitive processes	13.6 (12–15)	14.4 (12.9–16)	192	0.215
<i>Insight</i>	3.71 (2.46–5)	3.44 (2.54–3.81)	198	0.266
<i>Causation</i>	2.14 (1.96–2.65)	1.66 (1.29–2.41)	173	0.094
<i>Discrepancy</i>	1.45 (1.1–2.46)	1.81 (1.36–2.63)	195	0.238
<i>Tentative</i>	1.61 (1.26–3.01)	2.28 (1.69–3.35)	186.5	0.171
<i>Certitude</i>	0.2 (0–0.762)	0.59 (0.315–1.11)	149	0.026
<i>Differ</i>	3.02 (2.4–3.98)	4.42 (3.67–5.19)	108.5	0.002
Affect	4.97 (4.32–5.71)	3.94 (3.07–4.92)	137.5	0.014
Positive tone	2.72 (2.22–3.43)	2 (1.5–2.3)	110.5	0.002
Negative tone	2.08 (1.13–2.65)	2 (1.21–2.81)	244.5	0.946
Emotion	1.17 (0.925–1.8)	1.41 (0.86–2.23)	228.5	0.67
<i>Positive emotion</i>	0.465 (0–0.633)	0.4 (0.155–0.565)	238	0.83
<i>Negative emotion</i>	0.565 (0.363–0.992)	0.89 (0.435–1.39)	198.5	0.271
<i>Anxiety</i>	0.195 (0–0.292)	0 (0–0.205)	163	0.04
<i>Anger</i>	0 (0–0.05)	0.1 (0–0.195)	190	0.152
<i>Sadness</i>	0 (0–0)	0 (0–0.195)	228.5	0.578
Social processes	14.3 (11.6–15.8)	12.1 (9.96–13.9)	163	0.058
Social behavior	6.02 (4.64–8.59)	4.4 (3.77–5.39)	111	0.002

<i>Prosocial behavior</i>	1.51 (0.495–2.24)	0.44 (0.24–1.01)	135	0.011
<i>Politeness</i>	0.1 (0–0.255)	0 (0–0.21)	209	0.343
<i>Interpersonal conflict</i>	0.215 (0–0.547)	0.2 (0.075–0.495)	234.5	0.768
<i>Moralization</i>	1.53 (1.09–1.79)	0.52 (0.28–0.985)	66	<0.001
<i>Communication</i>	1.72 (0.942–2.11)	1.77 (1.21–2.4)	221.5	0.559

*Mann–Whitney U. $p < 0.004$ considered as significance threshold after Bonferroni correction.

Table S5. Comparison of “true” student-written essays with full-keyword AI-generated essays*

	LIWC results, median (IQR)			Overall			ChatGPT-generated vs. true student-written essays		Bard-generated vs. true student-written essays		Bard-generated vs. ChatGPT-generated essays	
	True student-written essays (n = 31)	Equivalent Bard-generated essays (n = 31)	Equivalent ChatGPT-generated essays (n = 31)	χ^2	df	p-value	w	p-value	w	p-value	w	p-value
Analytical thinking	67.4 (54–74.8)	52 (45.9–58)	90.5 (83.5–93.2)	49.541	2	<0.001	–7.36	<0.001	3.61	0.029	9.05	<0.001
Clout	34.5 (26.5–48)	40.8 (23.2–57.4)	38.9 (21.7–48)	0.601	2	0.741	0.119	0.996	–0.806	0.836	–1.065	0.732
Authentic	38.6 (29.2–54.3)	33.7 (10.8–43.1)	42.4 (33.9–58.5)	7.561	2	0.023	–0.727	0.865	2.997	0.086	3.614	0.029
Tone	20.2 (11.6–32.8)	31.9 (16.6–46.1)	35 (22.8–47.9)	10.305	2	0.006	–4.61	0.003	–2.79	0.119	1.34	0.609
Drives	4.08 (3.29–4.9)	4.63 (3.56–5.89)	5.65 (4.46–6.97)	12.336	2	0.002	–4.96	0.001	–1.93	0.359	2.92	0.098
Affiliation	1.53 (0.845–2.3)	1.54 (0.87–2.48)	2.23 (1.83–3.22)	12.205	2	0.002	–4.569	0.004	–0.418	0.953	3.922	0.015
Achievement	1.13 (0.83–1.61)	1.15 (0.635–1.65)	1.66 (1.21–2.06)	9.038	2	0.011	–3.754	0.022	0.737	0.861	3.554	0.032
Power	1.19 (1–1.67)	1.68 (1.23–2.4)	1.71 (1.11–2.17)	6.867	2	0.032	–2.987	0.087	–3.405	0.042	–0.11	0.997
Cognition	15.6 (13.5–17.4)	14.4 (11.6–15.2)	11.1 (9.76–12.1)	35.95	2	<0.001	7.89	<0.001	4.15	0.009	–5.35	<0.001
All-or-none	0.88 (0.67–1.21)	0.7 (0.535–1.05)	0.39 (0.21–0.43)	33.936	2	<0.001	7.63	<0.001	1.92	0.363	–6.29	<0.001

Cognitive processes	14.4 (12.9–16)	13.3 (11–14.2)	10.6 (9.38–11.5)	30.917	2	<0.001	7.5	<0.001	3.83	0.018	–4.66	0.003
<i>Insight</i>	3.44 (2.54–3.81)	4.66 (3.83–4.89)	3.9 (3.15–4.38)	17.096	2	<0.001	–3.04	0.081	–5.61	<0.001	–3.25	0.057
<i>Causation</i>	1.66 (1.29–2.41)	1.42 (1.01–1.94)	1.25 (0.785–1.63)	8.449	2	0.015	3.89	0.016	2.65	0.147	–1.77	0.422
<i>Discrepancy</i>	1.81 (1.36–2.63)	2.02 (1.21–2.45)	1.23 (1.02–1.67)	14.927	2	<0.001	4.779	0.002	0.0398	1	–4.6599	0.003
<i>Tentative</i>	2.28 (1.69–3.35)	1.62 (1.15–1.89)	1.37 (0.89–1.65)	23.579	2	<0.001	6.27	<0.001	5.22	<0.001	–2.03	0.322
<i>Certitude</i>	0.59 (0.315–1.11)	0.17 (0–0.375)	0.21 (0–0.405)	21.793	2	<0.001	5.67	<0.001	5.59	<0.001	1.36	0.601
<i>Differ</i>	4.42 (3.67–5.19)	3.01 (2.65–3.75)	1.86 (1.61–2.35)	52.854	2	<0.001	8.88	<0.001	6.56	<0.001	–6.44	<0.001
Affect	3.94 (3.07–4.92)	5.54 (4.52–6.59)	5.7 (4.75–7.21)	17.969	2	<0.001	–4.888	0.002	–5.466	<0.001	0.468	0.942
Positive tone	2 (1.5–2.3)	2.93 (2.1–3.66)	3.21 (2.47–3.59)	22.97	2	<0.001	–6.223	<0.001	–5.416	<0.001	0.707	0.872
Negative tone	2 (1.21–2.81)	2.02 (1.64–2.89)	1.96 (1.42–2.53)	1.541	2	0.463	–0.289	0.977	–1.493	0.542	–1.523	0.529
Emotion	1.41 (0.86–2.23)	1.53 (0.975–2.12)	2.14 (1.44–3.23)	9.254	2	0.01	–3.873	0.017	–0.448	0.946	3.524	0.034
<i>Positive emotion</i>	0.4 (0.155–0.565)	0.35 (0.17–0.695)	0.43 (0.28–0.82)	3.889	2	0.143	–2.2169	0.26	0.00999	1	2.59492	0.158
<i>Negative emotion</i>	0.89 (0.435–1.39)	0.88 (0.47–1.42)	1.22 (0.53–1.69)	1.629	2	0.443	–1.733	0.438	–0.428	0.951	1.294	0.631
<i>Anxiety</i>	0 (0–0.205)	0.17 (0–0.34)	0.21 (0.095–0.495)	12.127	2	0.002	–4.62	0.003	–3.17	0.064	2.41	0.205
<i>Anger</i>	0.1 (0–0.195)	0.13 (0–0.21)	0 (0–0.205)	1.299	2	0.522	1.319	0.62	–0.285	0.978	–1.473	0.551

<i>Sadness</i>	0 (0–0.195)	0 (0–0.195)	0.2 (0–0.295)	6.851	2	0.033	–3.6	0.029	–1.68	0.462	2.16	0.28
Social processes	12.1 (9.96–13.9)	14.5 (12.9–17.7)	12.2 (10.3–14.4)	13.719	2	0.001	–0.627	0.897	–4.689	0.003	–4.311	0.007
<i>Social behavior</i>	4.4 (3.77–5.39)	6.17 (5.36–6.87)	7.14 (5.73–8.04)	39.53	2	<0.001	–7.83	<0.001	–6.94	<0.001	3.23	0.059
<i>Prosocial behavior</i>	0.44 (0.24–1.01)	1.05 (0.845–1.83)	1.64 (1.06–2.42)	30.27	2	<0.001	–7.34	<0.001	–5.27	<0.001	3.01	0.085
<i>Politeness</i>	0 (0–0.21)	0 (0–0.18)	0 (0–0.2)	0.118	2	0.943	0.483	0.938	–0.229	0.986	–0.341	0.969
<i>Interpersonal conflict</i>	0.2 (0.075–0.495)	0.42 (0.195–0.515)	0.21 (0.185–0.595)	2.061	2	0.357	–1.214	0.667	–2.001	0.333	–0.82	0.831
<i>Moralization</i>	0.52 (0.28–0.985)	0.88 (0.67–1.31)	1.88 (1.58–2.21)	45.777	2	<0.001	–8.7	<0.001	–3.43	0.041	7.09	<0.001
<i>Communication</i>	1.77 (1.21–2.4)	1.93 (1.34–2.67)	1.28 (0.61–1.65)	13.434	2	0.001	3.81	0.019	–1.52	0.529	–4.83	0.002

*Kruskal-Wallis test with Dwass-Steel-Critchlow-Fligner pairwise comparisons.

Table S6. Comparison of potentially AI-cowritten student-written essays with full keyword AI-generated essays*

Variable	LIWC results, median (IQR)			Overall			ChatGPT-generated vs. potentially AI-cowritten student-written essays		Bard-generated vs. potentially AI-cowritten student-written essays		Bard-generated vs. ChatGPT-generated essays	
	AI student essays (n = 16)	Equivalent Bard essays (n = 16)	Equivalent ChatGPT essays (n = 16)	χ^2	df	p-value	w	p-value	w	p-value	w	p-value
Analytical thinking	77.6 (71.1–92.1)	61.9 (49.7–70.5)	89.5 (81.3–94.5)	22.1037	2	<0.001	–2.53	0.173	4.37	0.006	6.34	<0.001
Clout	51 (38.6–56.5)	44 (27.6–65.5)	32.6 (25.1–48.1)	4.9311	2	0.085	3.358	0.046	0.48	0.939	–1.866	0.384
Authentic	26 (14.1–29)	25.2 (19.1–40.5)	55.5 (34.9–65.2)	14.346	2	<0.001	–5.14	<0.001	–1.01	0.754	3.89	0.016
Tone	34.8 (12.4–59)	41.8 (30.1–48.1)	30.4 (24.7–54.6)	0.4534	2	0.797	–0.373	0.962	–0.746	0.858	–0.853	0.819
Drives	4.28 (3.43–6.05)	5.07 (4.16–5.78)	5.18 (4.73–6.23)	1.9529	2	0.377	–1.919	0.364	–0.933	0.787	1.119	0.709
Affiliation	1.32 (0.927–2.24)	2 (0.867–2.7)	1.87 (1.46–2.74)	3.6549	2	0.161	–2.958	0.092	–1.306	0.626	0.8	0.839
Achievement	1.46 (0.917–2.35)	1.72 (0.973–2.22)	2 (1.25–2.9)	0.7676	2	0.681	–1.039	0.743	–0.32	0.972	1.066	0.732
Power	1.49 (1.06–2.12)	1.25 (0.94–1.46)	1.6 (1.27–2.08)	3.887	2	0.143	–0.533	0.925	1.866	0.384	2.799	0.117

Cognition	14.2 (12.5– 15.6)	14 (12.4– 16)	11.3 (10.5– 12.5)	12.6393	2	0.002	4.371	0.006	0.133	0.995	–4.291	0.007
All-or-none	0.485 (0– 0.848)	0.67 (0.37– 0.86)	0.2 (0–0.42)	8.7037	2	0.013	1.52	0.528	–1.77	0.425	–4.57	0.004
Cognitive processes	13.6 (12– 15)	13.3 (11.8– 15.2)	11 (10.3– 11.9)	9.1198	2	0.01	3.731	0.023	0.16	0.993	–3.625	0.028
<i>Insight</i>	3.71 (2.46–5)	4.44 (2.82– 5.87)	4.68 (3.9– 5.49)	1.9066	2	0.385	–2.106	0.296	–1.093	0.72	0.4	0.957
<i>Causation</i>	2.14 (1.96– 2.65)	1.53 (1.27– 2.21)	1.23 (1.09– 1.71)	9.3623	2	0.009	4.16	0.009	2.48	0.186	–2.11	0.296
<i>Discrepancy</i>	1.45 (1.1– 2.46)	2.13 (1.66– 2.52)	0.905 (0.695– 1.37)	16.497	2	<0.001	3.04	0.08	–2.21	0.261	–5.92	<0.001
<i>Tentative</i>	1.61 (1.26– 3.01)	1.86 (1.47– 2.34)	1.19 (0.77– 1.69)	7.8108	2	0.02	3.305	0.051	0.48	0.939	–3.492	0.036
<i>Certitude</i>	0.2 (0– 0.762)	0.4 (0– 0.573)	0.22 (0.135– 0.412)	0.209	2	0.901	0.325	0.971	0.219	0.987	–0.785	0.844
<i>Differ</i>	3.02 (2.4– 3.98)	2.99 (2.48– 3.43)	2.15 (1.82– 2.34)	12.1214	2	0.002	4.238	0.008	0.666	0.885	–4.211	0.008
Affect	4.97 (4.32– 5.71)	5.54 (4.79– 6.68)	5.63 (4.7– 6.3)	3.7359	2	0.154	–2.399	0.207	–2.292	0.237	0.32	0.972
Positive tone	2.72 (2.22– 3.43)	3.18 (2.97– 3.56)	2.92 (2.57– 3.35)	2.2081	2	0.332	–1.09	0.72	–1.95	0.354	–1.28	0.637
Negative tone	2.08 (1.13– 2.65)	1.98 (1.48– 2.52)	1.87 (1.64– 2.66)	0.2454	2	0.885	–0.6664	0.885	–0.533	0.925	0.0533	0.999

Emotion	1.17 (0.925– 1.8)	1.23 (0.963– 1.94)	1.99 (1.64– 2.83)	6.7666	2	0.034	–3.225	0.059	–0.4	0.957	3.091	0.074
<i>Positive emotion</i>	0.465 (0– 0.633)	0.415 (0.195– 0.55)	0.57 (0.35– 0.68)	1.2154	2	0.545	–1.233	0.658	0.107	0.997	1.442	0.565
<i>Negative emotion</i>	0.565 (0.363– 0.992)	0.61 (0.4– 0.978)	1.02 (0.617– 1.22)	2.8448	2	0.241	–2.08	0.305	–0.4	0.957	1.999	0.334
<i>Anxiety</i>	0.195 (0– 0.292)	0.275 (0.135–0.5)	0.415 (0.235– 0.612)	4.6418	2	0.098	–3.08	0.075	–1.43	0.57	1.5	0.54
<i>Anger</i>	0 (0–0.05)	0 (0–0.13)	0 (0–0.045)	0.2926	2	0.864	0.456	0.944	–0.47	0.941	–0.673	0.883
<i>Sadness</i>	0 (0–0)	0 (0–0.225)	0 (0–0.408)	2.6381	2	0.267	–2.11	0.296	–1.16	0.692	1.44	0.566
Social processes	14.3 (11.6– 15.8)	14.5 (12.5– 16.4)	12 (11.1– 13.9)	5.3796	2	0.068	2.079	0.306	–0.88	0.808	–3.305	0.051
Social behavior	6.02 (4.64– 8.59)	5.61 (4.88– 6.42)	6.54 (5.41– 7.49)	1.0645	2	0.587	0.213	0.988	0.853	0.819	1.652	0.472
<i>Prosocial behavior</i>	1.51 (0.495– 2.24)	1.35 (0.895– 1.65)	1.36 (1.06– 1.66)	0.0378	2	0.981	–0.08	0.998	0.1866	0.99	0.2665	0.981
<i>Politeness</i>	0.1 (0– 0.255)	0 (0–0.135)	0 (0–0.203)	3.1738	2	0.205	1.858	0.388	2.308	0.232	0.519	0.929
<i>Interpersonal conflict</i>	0.215 (0– 0.547)	0.185 (0– 0.387)	0.205 (0– 0.265)	0.6647	2	0.717	1.057	0.735	0.925	0.79	0.163	0.993
<i>Moralization</i>	1.53 (1.09– 1.79)	1.1 (0.848– 1.3)	1.5 (1.26– 1.88)	5.6028	2	0.061	–0.426	0.951	2.532	0.173	3.172	0.064
<i>Communication</i>	1.72 (0.942– 2.11)	1.46 (0.99– 2.02)	1.34 (0.98– 1.64)	1.1153	2	0.573	1.5464	0.519	–0.0267	1	–1.0127	0.754

*Kruskal-Wallis test with Dwass-Steel-Critchlow-Fligner pairwise comparisons.