

Summary of nonparametric statistics analysis for the latent trait estimates of Attention in the second study for students with effective participation

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Table 1: Summary of Scheirer-Ray-Hare results for the latent trait estimates of Attention in the second study for students with effective participation

	Df	Sum Sq	H	p.value	Sig
Type					
Type:Type	1	425.506	1.933	0.164	
Type:CLRole	1	4.153	0.019	0.891	
Type:Type:CLRole	1	255.507	1.161	0.281	
Type:Residuals	47	10321.834			

Signif. codes: 0 “***” 0.01 “**” 0.05

Table 2: Full descriptive statistic of the pair wilcoxon analysis for the latent trait estimates of Attention in the second study for students with effective participation

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	non-gamified	30	-0.22	23.58	707.5	242.5	-1.39	0.084	0.195	small
Type.less.2	ont-gamified	21	0.37	29.45	618.5	242.5	-1.39	0.084	0.195	small
Type.greater.1	non-gamified	30	-0.22	23.58	707.5	242.5	-1.39	0.918	0.195	small
Type.greater.2	ont-gamified	21	0.37	29.45	618.5	242.5	-1.39	0.918	0.195	small
Type.two.sided.1	non-gamified	30	-0.22	23.58	707.5	242.5	-1.39	0.167	0.195	small
Type.two.sided.2	ont-gamified	21	0.37	29.45	618.5	242.5	-1.39	0.167	0.195	small
Type.CLRole.less.1	non-gamified.Apprentice	19	-0.56	14.76	280.5	90.5	-0.60	0.280	0.110	small
Type.CLRole.less.2	non-gamified.Master	11	0.16	16.77	184.5	90.5	-0.60	0.280	0.110	small
Type.CLRole.greater.1	non-gamified.Apprentice	19	-0.56	14.76	280.5	90.5	-0.60	0.727	0.110	small
Type.CLRole.greater.2	non-gamified.Master	11	0.16	16.77	184.5	90.5	-0.60	0.727	0.110	small
Type.CLRole.two.sided.1	non-gamified.Apprentice	19	-0.56	14.76	280.5	90.5	-0.60	0.559	0.110	small
Type.CLRole.two.sided.2	non-gamified.Master	11	0.16	16.77	184.5	90.5	-0.60	0.559	0.110	small
Type.CLRole.less.11	non-gamified.Apprentice	19	-0.56	14.26	271.0	81.0	-1.64	0.052	0.289	small
Type.CLRole.less.21	ont-gamified.Apprentice	13	0.37	19.77	257.0	81.0	-1.64	0.052	0.289	small
Type.CLRole.greater.11	non-gamified.Apprentice	19	-0.56	14.26	271.0	81.0	-1.64	0.950	0.289	small
Type.CLRole.greater.21	ont-gamified.Apprentice	13	0.37	19.77	257.0	81.0	-1.64	0.950	0.289	small
Type.CLRole.two.sided.11	non-gamified.Apprentice	19	-0.56	14.26	271.0	81.0	-1.64	0.105	0.289	small
Type.CLRole.two.sided.21	ont-gamified.Apprentice	13	0.37	19.77	257.0	81.0	-1.64	0.105	0.289	small
Type.CLRole.less.12	non-gamified.Apprentice	19	-0.56	13.34	253.5	63.5	-0.67	0.261	0.128	small
Type.CLRole.less.22	ont-gamified.Master	8	-0.04	15.56	124.5	63.5	-0.67	0.261	0.128	small
Type.CLRole.greater.12	non-gamified.Apprentice	19	-0.56	13.34	253.5	63.5	-0.67	0.747	0.128	small
Type.CLRole.greater.22	ont-gamified.Master	8	-0.04	15.56	124.5	63.5	-0.67	0.747	0.128	small
Type.CLRole.two.sided.12	non-gamified.Apprentice	19	-0.56	13.34	253.5	63.5	-0.67	0.522	0.128	small
Type.CLRole.two.sided.22	ont-gamified.Master	8	-0.04	15.56	124.5	63.5	-0.67	0.522	0.128	small
Type.CLRole.less.13	non-gamified.Master	11	0.16	10.82	119.0	53.0	-1.07	0.148	0.219	small
Type.CLRole.less.23	ont-gamified.Apprentice	13	0.37	13.92	181.0	53.0	-1.07	0.148	0.219	small
Type.CLRole.greater.13	non-gamified.Master	11	0.16	10.82	119.0	53.0	-1.07	0.859	0.219	small
Type.CLRole.greater.23	ont-gamified.Apprentice	13	0.37	13.92	181.0	53.0	-1.07	0.859	0.219	small
Type.CLRole.two.sided.13	non-gamified.Master	11	0.16	10.82	119.0	53.0	-1.07	0.295	0.219	small
Type.CLRole.two.sided.23	ont-gamified.Apprentice	13	0.37	13.92	181.0	53.0	-1.07	0.295	0.219	small
Type.CLRole.less.14	non-gamified.Master	11	0.16	10.09	111.0	45.0	0.08	0.540	0.019	none
Type.CLRole.less.24	ont-gamified.Master	8	-0.04	9.88	79.0	45.0	0.08	0.540	0.019	none
Type.CLRole.greater.14	non-gamified.Master	11	0.16	10.09	111.0	45.0	0.08	0.476	0.019	none
Type.CLRole.greater.24	ont-gamified.Master	8	-0.04	9.88	79.0	45.0	0.08	0.476	0.019	none
Type.CLRole.two.sided.14	non-gamified.Master	11	0.16	10.09	111.0	45.0	0.08	0.951	0.019	none
Type.CLRole.two.sided.24	ont-gamified.Master	8	-0.04	9.88	79.0	45.0	0.08	0.951	0.019	none
Type.CLRole.less.15	ont-gamified.Apprentice	13	0.37	12.08	157.0	66.0	1.02	0.848	0.222	small
Type.CLRole.less.25	ont-gamified.Master	8	-0.04	9.25	74.0	66.0	1.02	0.848	0.222	small
Type.CLRole.greater.15	ont-gamified.Apprentice	13	0.37	12.08	157.0	66.0	1.02	0.164	0.222	small
Type.CLRole.greater.25	ont-gamified.Master	8	-0.04	9.25	74.0	66.0	1.02	0.164	0.222	small

Table 2: *(continued)*

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type:CLRole.two.sided.15	ont-gamified.Apprentice	13	0.37	12.08	157.0	66.0	1.02	0.325	0.222	small
Type:CLRole.two.sided.25	ont-gamified.Master	8	-0.04	9.25	74.0	66.0	1.02	0.325	0.222	small