

# Summary of nonparametric statistics analysis for the latent trait estimates of Attention in the third study for signed up students

October 1, 2018

Table 1: Summary of Scheirer-Ray-Hare results for the latent trait estimates of Attention in the third study for signed up students

	Df	Sum Sq	H	p.value	Sig
Type					
Type:Type	1	33.973	0.148	0.700	
Type:CLRole	1	22.023	0.096	0.756	
Type:Type:CLRole	1	46.860	0.205	0.651	
Type:Residuals	48	11577.143			

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 third study for signed up students

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	ont-gamified	25	-0.07	25.66	641.5	316.5	-0.39	0.353	0.053	none
Type.less.2	w/o-gamified	27	0.09	27.28	736.5	316.5	-0.39	0.353	0.053	none
Type.greater.1	ont-gamified	25	-0.07	25.66	641.5	316.5	-0.39	0.650	0.053	none
Type.greater.2	w/o-gamified	27	0.09	27.28	736.5	316.5	-0.39	0.650	0.053	none
Type.two.sided.1	ont-gamified	25	-0.07	25.66	641.5	316.5	-0.39	0.706	0.053	none
Type.two.sided.2	w/o-gamified	27	0.09	27.28	736.5	316.5	-0.39	0.706	0.053	none
Type:CLRole.less.1	ont-gamified.Apprentice	16	-0.28	12.22	195.5	59.5	-0.71	0.248	0.142	small
Type:CLRole.less.2	ont-gamified.Master	9	-0.07	14.39	129.5	59.5	-0.71	0.248	0.142	small
Type:CLRole.greater.1	ont-gamified.Apprentice	16	-0.28	12.22	195.5	59.5	-0.71	0.761	0.142	small
Type:CLRole.greater.2	ont-gamified.Master	9	-0.07	14.39	129.5	59.5	-0.71	0.761	0.142	small
Type:CLRole.two.sided.1	ont-gamified.Apprentice	16	-0.28	12.22	195.5	59.5	-0.71	0.495	0.142	small
Type:CLRole.two.sided.2	ont-gamified.Master	9	-0.07	14.39	129.5	59.5	-0.71	0.495	0.142	small
Type:CLRole.less.11	ont-gamified.Apprentice	16	-0.28	17.12	274.0	138.0	-0.46	0.326	0.078	none
Type:CLRole.less.21	w/o-gamified.Apprentice	19	0.09	18.74	356.0	138.0	-0.46	0.326	0.078	none
Type:CLRole.greater.11	ont-gamified.Apprentice	16	-0.28	17.12	274.0	138.0	-0.46	0.680	0.078	none
Type:CLRole.greater.21	w/o-gamified.Apprentice	19	0.09	18.74	356.0	138.0	-0.46	0.680	0.078	none
Type:CLRole.two.sided.11	ont-gamified.Apprentice	16	-0.28	17.12	274.0	138.0	-0.46	0.652	0.078	none
Type:CLRole.two.sided.21	w/o-gamified.Apprentice	19	0.09	18.74	356.0	138.0	-0.46	0.652	0.078	none
Type:CLRole.less.12	ont-gamified.Apprentice	16	-0.28	12.09	193.5	57.5	-0.40	0.354	0.081	none
Type:CLRole.less.22	w/o-gamified.Master	8	-0.12	13.31	106.5	57.5	-0.40	0.354	0.081	none
Type:CLRole.greater.12	ont-gamified.Apprentice	16	-0.28	12.09	193.5	57.5	-0.40	0.657	0.081	none
Type:CLRole.greater.22	w/o-gamified.Master	8	-0.12	13.31	106.5	57.5	-0.40	0.657	0.081	none
Type:CLRole.two.sided.12	ont-gamified.Apprentice	16	-0.28	12.09	193.5	57.5	-0.40	0.708	0.081	none
Type:CLRole.two.sided.22	w/o-gamified.Master	8	-0.12	13.31	106.5	57.5	-0.40	0.708	0.081	none
Type:CLRole.less.13	ont-gamified.Master	9	-0.07	14.39	129.5	84.5	-0.05	0.486	0.009	none
Type:CLRole.less.23	w/o-gamified.Apprentice	19	0.09	14.55	276.5	84.5	-0.05	0.486	0.009	none
Type:CLRole.greater.13	ont-gamified.Master	9	-0.07	14.39	129.5	84.5	-0.05	0.524	0.009	none
Type:CLRole.greater.23	w/o-gamified.Apprentice	19	0.09	14.55	276.5	84.5	-0.05	0.524	0.009	none
Type:CLRole.two.sided.13	ont-gamified.Master	9	-0.07	14.39	129.5	84.5	-0.05	0.971	0.009	none
Type:CLRole.two.sided.23	w/o-gamified.Apprentice	19	0.09	14.55	276.5	84.5	-0.05	0.971	0.009	none
Type:CLRole.less.14	ont-gamified.Master	9	-0.07	9.06	81.5	36.5	0.05	0.528	0.012	none
Type:CLRole.less.24	w/o-gamified.Master	8	-0.12	8.94	71.5	36.5	0.05	0.528	0.012	none
Type:CLRole.greater.14	ont-gamified.Master	9	-0.07	9.06	81.5	36.5	0.05	0.491	0.012	none
Type:CLRole.greater.24	w/o-gamified.Master	8	-0.12	8.94	71.5	36.5	0.05	0.491	0.012	none
Type:CLRole.two.sided.14	ont-gamified.Master	9	-0.07	9.06	81.5	36.5	0.05	0.981	0.012	none
Type:CLRole.two.sided.24	w/o-gamified.Master	8	-0.12	8.94	71.5	36.5	0.05	0.981	0.012	none
Type:CLRole.less.15	w/o-gamified.Apprentice	19	0.09	14.18	269.5	79.5	0.19	0.578	0.036	none
Type:CLRole.less.25	w/o-gamified.Master	8	-0.12	13.56	108.5	79.5	0.19	0.578	0.036	none
Type:CLRole.greater.15	w/o-gamified.Apprentice	19	0.09	14.18	269.5	79.5	0.19	0.433	0.036	none
Type:CLRole.greater.25	w/o-gamified.Master	8	-0.12	13.56	108.5	79.5	0.19	0.433	0.036	none

Table 2: *(continued)*

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type:CLRole.two.sided.15	w/o-gamified.Apprentice	19	0.09	14.18	269.5	79.5	0.19	0.866	0.036	none
Type:CLRole.two.sided.25	w/o-gamified.Master	8	-0.12	13.56	108.5	79.5	0.19	0.866	0.036	none