Summary of nonparametric statistics analysis for the latent trait estimates of Satisfaction in the second study for signed up students

October 1, 2018

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

	Df	Sum Sq	H	p.value	Sig
Type					
Type:Type	1	39.253	0.139	0.710	
Type:CLRole	1	16.986	0.060	0.806	
Type:Type:CLRole	1	190.331	0.672	0.412	
Type:Residuals	54	15885.931			

Signif. codes: 0 "**" 0.01 "*" 0.05

Table 2: Full descriptive statistic of the pair wilcoxon analysis for the latent trait estimates of Satisfaction in the second study for signed up students

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	non-gamified	34	−0.01	30.19	1026.5	431.5	0.37	0.646	0.049	none
Type.less.2	ont-gamified	24	−0.18	28.52	684.5	431.5	0.37	0.646	0.049	none
Type.greater.1	non-gamified	34	−0.01	30.19	1026.5	431.5	0.37	0.357	0.049	none
Type.greater.2	ont-gamified	24	−0.18	28.52	684.5	431.5	0.37	0.357	0.049	none
Type.two.sided.1	non-gamified	34	−0.01	30.19	1026.5	431.5	0.37	0.715	0.049	none
Type.two.sided.2	ont-gamified	24	−0.18	28.52	684.5	431.5	0.37	0.715	0.049	none
Type:CLRole.less.1	non-gamified.Apprentice	23	−0.01	16.61	382.0	106.0	−0.76	0.230	0.130	small
Type:CLRole.less.2	non-gamified.Master	11	0.33	19.36	213.0	106.0	−0.76	0.230	0.130	small
Type:CLRole.greater.1	non-gamified.Apprentice	23	−0.01	16.61	382.0	106.0	−0.76	0.776	0.130	small
Type:CLRole.greater.2	non-gamified.Master	11	0.33	19.36	213.0	106.0	−0.76	0.776	0.130	small
Type:CLRole.two.sided.1	non-gamified.Apprentice	23	−0.01	16.61	382.0	106.0	−0.76	0.460	0.130	small
Type:CLRole.two.sided.2	non-gamified.Master	11	0.33	19.36	213.0	106.0	−0.76	0.460	0.130	small
Type:CLRole.less.11	non-gamified.Apprentice	23	−0.01	19.74	454.0	178.0	−0.17	0.435	0.028	none
Type:CLRole.less.21	ont-gamified.Apprentice	16	−0.18	20.38	326.0	178.0	−0.17	0.435	0.028	none
Type:CLRole.greater.11	non-gamified.Apprentice	23	−0.01	19.74	454.0	178.0	−0.17	0.570	0.028	none
Type:CLRole.greater.21	ont-gamified.Apprentice	16	−0.18	20.38	326.0	178.0	−0.17	0.570	0.028	none
Type:CLRole.two.sided.11	non-gamified.Apprentice	23	−0.01	19.74	454.0	178.0	−0.17	0.871	0.028	none
Type:CLRole.two.sided.21	ont-gamified.Apprentice	16	−0.18	20.38	326.0	178.0	−0.17	0.871	0.028	none
Type:CLRole.less.12	non-gamified.Apprentice	23	−0.01	16.41	377.5	101.5	0.43	0.668	0.077	none
Type:CLRole.less.22	ont-gamified.Master	8	−0.01	14.81	118.5	101.5	0.43	0.668	0.077	none
Type:CLRole.greater.12	non-gamified.Apprentice	23	−0.01	16.41	377.5	101.5	0.43	0.340	0.077	none
Type:CLRole.greater.22	ont-gamified.Master	8	−0.01	14.81	118.5	101.5	0.43	0.340	0.077	none
Type:CLRole.two.sided.12	non-gamified.Apprentice	23	−0.01	16.41	377.5	101.5	0.43	0.680	0.077	none
Type:CLRole.two.sided.22	ont-gamified.Master	8	−0.01	14.81	118.5	101.5	0.43	0.680	0.077	none
Type:CLRole.less.13	non-gamified.Master	11	0.33	14.73	162.0	96.0	0.40	0.656	0.076	none
Type:CLRole.less.23	ont-gamified.Apprentice	16	−0.18	13.50	216.0	96.0	0.40	0.656	0.076	none
Type:CLRole.greater.13	non-gamified.Master	11	0.33	14.73	162.0	96.0	0.40	0.353	0.076	none
Type:CLRole.greater.23	ont-gamified.Apprentice	16	−0.18	13.50	216.0	96.0	0.40	0.353	0.076	none
Type:CLRole.two.sided.13	non-gamified.Master	11	0.33	14.73	162.0	96.0	0.40	0.706	0.076	none
Type:CLRole.two.sided.23	ont-gamified.Apprentice	16	−0.18	13.50	216.0	96.0	0.40	0.706	0.076	none
Type:CLRole.less.14	non-gamified.Master	11	0.33	11.09	122.0	56.0	1.00	0.841	0.229	small
Type:CLRole.less.24	ont-gamified.Master	8	−0.01	8.50	68.0	56.0	1.00	0.841	0.229	small
Type:CLRole.greater.14	non-gamified.Master	11	0.33	11.09	122.0	56.0	1.00	0.169	0.229	small
Type:CLRole.greater.24	ont-gamified.Master	8	−0.01	8.50	68.0	56.0	1.00	0.169	0.229	small
Type:CLRole.two.sided.14	non-gamified.Master	11	0.33	11.09	122.0	56.0	1.00	0.337	0.229	small
Type:CLRole.two.sided.24	ont-gamified.Master	8	−0.01	8.50	68.0	56.0	1.00	0.337	0.229	small
Type:CLRole.less.15	ont-gamified.Apprentice	16	−0.18	12.78	204.5	68.5	0.28	0.613	0.057	none
Type:CLRole.less.25	ont-gamified.Master	8	−0.01	11.94	95.5	68.5	0.28	0.613	0.057	none
Type:CLRole.greater.15	ont-gamified.Apprentice	16	−0.18	12.78	204.5	68.5	0.28	0.399	0.057	none
Type:CLRole.greater.25	ont-gamified.Master	8	−0.01	11.94	95.5	68.5	0.28	0.399	0.057	none

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type:CLRole.two.sided.15	ont-gamified.Apprentice	16	−0.18	12.78	204.5	68.5	0.28	0.798	0.057	none
Type:CLRole.two.sided.25	ont-gamified.Master	8	−0.01	11.94	95.5	68.5	0.28	0.798	0.057	none

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type:CLRole.two.sided.15	ont-gamified.Apprentice	16	−0.18	12.78	204.5	68.5	0.28	0.798	0.057	none
Type:CLRole.two.sided.25	ont-gamified.Master	8	−0.01	11.94	95.5	68.5	0.28	0.798	0.057	none