

Summary of nonparametric statistics analysis for Intrinsic Motivation score in the pilot study for students with effective participation

Table 1: Summary of Scheirer-Ray-Hare results for Intrinsic Motivation score in the pilot study for students with effective participation

	Df	Sum Sq	H	p.value	Sig
Type					
Type:Type	1	133.929	3.479	0.062	
Type:CLRole	1	2.100	0.055	0.815	
Type:Type:CLRole	1	36.021	0.936	0.333	
Type:Residuals	17	597.950			

Signif. codes: 0 ‘***’ 0.01 ‘**’ 0.05

Table 2: Descriptive statistic of the pair wilcoxon analysis for Intrinsic Motivation score in the pilot study for students with effective participation

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	non-gamified	7	4.45	7.43	52	24	-1.87	0.033	0.407	medium
Type.less.2	ont-gamified	14	4.94	12.79	179	24	-1.87	0.033	0.407	medium

Table 3: Full descriptive statistic of the pair wilcoxon analysis for Intrinsic Motivation score in the pilot study for students with effective participation

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	non-gamified	7	4.45	7.43	52	24	-1.87	0.033	0.407	medium
Type.less.2	ont-gamified	14	4.94	12.79	179	24	-1.87	0.033	0.407	medium
Type.greater.1	non-gamified	7	4.45	7.43	52	24	-1.87	0.972	0.407	medium
Type.greater.2	ont-gamified	14	4.94	12.79	179	24	-1.87	0.972	0.407	medium
Type.two.sided.1	non-gamified	7	4.45	7.43	52	24	-1.87	0.067	0.407	medium
Type.two.sided.2	ont-gamified	14	4.94	12.79	179	24	-1.87	0.067	0.407	medium
Type:CLRole.less.1	non-gamified.Apprentice	5	4.57	4.60	23	8	1.16	0.905	0.439	medium
Type:CLRole.less.2	non-gamified.Master	2	3.99	2.50	5	8	1.16	0.905	0.439	medium
Type:CLRole.greater.1	non-gamified.Apprentice	5	4.57	4.60	23	8	1.16	0.190	0.439	medium
Type:CLRole.greater.2	non-gamified.Master	2	3.99	2.50	5	8	1.16	0.190	0.439	medium
Type:CLRole.two.sided.1	non-gamified.Apprentice	5	4.57	4.60	23	8	1.16	0.381	0.439	medium
Type:CLRole.two.sided.2	non-gamified.Master	2	3.99	2.50	5	8	1.16	0.381	0.439	medium
Type:CLRole.less.11	non-gamified.Apprentice	5	4.57	6.20	31	16	-1.10	0.155	0.285	small
Type:CLRole.less.21	ont-gamified.Apprentice	10	4.94	8.90	89	16	-1.10	0.155	0.285	small
Type:CLRole.greater.11	non-gamified.Apprentice	5	4.57	6.20	31	16	-1.10	0.873	0.285	small
Type:CLRole.greater.21	ont-gamified.Apprentice	10	4.94	8.90	89	16	-1.10	0.873	0.285	small
Type:CLRole.two.sided.11	non-gamified.Apprentice	5	4.57	6.20	31	16	-1.10	0.310	0.285	small
Type:CLRole.two.sided.21	ont-gamified.Apprentice	10	4.94	8.90	89	16	-1.10	0.310	0.285	small
Type:CLRole.less.12	non-gamified.Apprentice	5	4.57	4.00	20	5	-1.22	0.143	0.408	medium
Type:CLRole.less.22	ont-gamified.Master	4	5.12	6.25	25	5	-1.22	0.143	0.408	medium
Type:CLRole.greater.12	non-gamified.Apprentice	5	4.57	4.00	20	5	-1.22	0.905	0.408	medium
Type:CLRole.greater.22	ont-gamified.Master	4	5.12	6.25	25	5	-1.22	0.905	0.408	medium
Type:CLRole.two.sided.12	non-gamified.Apprentice	5	4.57	4.00	20	5	-1.22	0.286	0.408	medium
Type:CLRole.two.sided.22	ont-gamified.Master	4	5.12	6.25	25	5	-1.22	0.286	0.408	medium
Type:CLRole.less.13	non-gamified.Master	2	3.99	3.00	6	3	-1.50	0.091	0.434	medium
Type:CLRole.less.23	ont-gamified.Apprentice	10	4.94	7.20	72	3	-1.50	0.091	0.434	medium
Type:CLRole.greater.13	non-gamified.Master	2	3.99	3.00	6	3	-1.50	0.939	0.434	medium
Type:CLRole.greater.23	ont-gamified.Apprentice	10	4.94	7.20	72	3	-1.50	0.939	0.434	medium
Type:CLRole.two.sided.13	non-gamified.Master	2	3.99	3.00	6	3	-1.50	0.182	0.434	medium
Type:CLRole.two.sided.23	ont-gamified.Apprentice	10	4.94	7.20	72	3	-1.50	0.182	0.434	medium
Type:CLRole.less.14	non-gamified.Master	2	3.99	1.50	3	0	-1.85	0.067	0.756	large
Type:CLRole.less.24	ont-gamified.Master	4	5.12	4.50	18	0	-1.85	0.067	0.756	large
Type:CLRole.greater.14	non-gamified.Master	2	3.99	1.50	3	0	-1.85	1.000	0.756	large
Type:CLRole.greater.24	ont-gamified.Master	4	5.12	4.50	18	0	-1.85	1.000	0.756	large
Type:CLRole.two.sided.14	non-gamified.Master	2	3.99	1.50	3	0	-1.85	0.133	0.756	large
Type:CLRole.two.sided.24	ont-gamified.Master	4	5.12	4.50	18	0	-1.85	0.133	0.756	large
Type:CLRole.less.15	ont-gamified.Apprentice	10	4.94	7.30	73	18	-0.28	0.420	0.076	none
Type:CLRole.less.25	ont-gamified.Master	4	5.12	8.00	32	18	-0.28	0.420	0.076	none
Type:CLRole.greater.15	ont-gamified.Apprentice	10	4.94	7.30	73	18	-0.28	0.633	0.076	none
Type:CLRole.greater.25	ont-gamified.Master	4	5.12	8.00	32	18	-0.28	0.633	0.076	none

Table 3: *(continued)*

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type:CLRole.two.sided.15	ont-gamified.Apprentice	10	4.94	7.30	73	18	-0.28	0.839	0.076	none
Type:CLRole.two.sided.25	ont-gamified.Master	4	5.12	8.00	32	18	-0.28	0.839	0.076	none