

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

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Table 1: Summary of Scheirer-Ray-Hare results for the latent trait estimates of Intrinsic Motivation 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	0.233	0.006	0.938	
Type:Type:CLRole	1	10.688	0.278	0.598	
Type:Residuals	17	625.150			

Signif. codes: 0 “***” 0.01 “**” 0.05

Table 2: Descriptive statistic of the pair wilcoxon analysis for the latent trait estimates of Intrinsic Motivation 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	-0.12	7.43	52	24	-1.87	0.033	0.407	medium
Type.less.2	ont-gamified	14	0.24	12.79	179	24	-1.87	0.033	0.407	medium

Table 3: Full descriptive statistic of the pair wilcoxon analysis for the latent trait estimates of Intrinsic Motivation 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	-0.12	7.43	52	24	-1.87	0.033	0.407	medium
Type.less.2	ont-gamified	14	0.24	12.79	179	24	-1.87	0.033	0.407	medium
Type.greater.1	non-gamified	7	-0.12	7.43	52	24	-1.87	0.972	0.407	medium
Type.greater.2	ont-gamified	14	0.24	12.79	179	24	-1.87	0.972	0.407	medium
Type.two.sided.1	non-gamified	7	-0.12	7.43	52	24	-1.87	0.067	0.407	medium
Type.two.sided.2	ont-gamified	14	0.24	12.79	179	24	-1.87	0.067	0.407	medium
Type:CLRole.less.1	non-gamified.Apprentice	5	-0.12	4.20	21	6	0.39	0.714	0.146	small
Type:CLRole.less.2	non-gamified.Master	2	-0.23	3.50	7	6	0.39	0.714	0.146	small
Type:CLRole.greater.1	non-gamified.Apprentice	5	-0.12	4.20	21	6	0.39	0.429	0.146	small
Type:CLRole.greater.2	non-gamified.Master	2	-0.23	3.50	7	6	0.39	0.429	0.146	small
Type:CLRole.two.sided.1	non-gamified.Apprentice	5	-0.12	4.20	21	6	0.39	0.857	0.146	small
Type:CLRole.two.sided.2	non-gamified.Master	2	-0.23	3.50	7	6	0.39	0.857	0.146	small
Type:CLRole.less.11	non-gamified.Apprentice	5	-0.12	5.80	29	14	-1.35	0.103	0.348	medium
Type:CLRole.less.21	ont-gamified.Apprentice	10	0.24	9.10	91	14	-1.35	0.103	0.348	medium
Type:CLRole.greater.11	non-gamified.Apprentice	5	-0.12	5.80	29	14	-1.35	0.918	0.348	medium
Type:CLRole.greater.21	ont-gamified.Apprentice	10	0.24	9.10	91	14	-1.35	0.918	0.348	medium
Type:CLRole.two.sided.11	non-gamified.Apprentice	5	-0.12	5.80	29	14	-1.35	0.206	0.348	medium
Type:CLRole.two.sided.21	ont-gamified.Apprentice	10	0.24	9.10	91	14	-1.35	0.206	0.348	medium
Type:CLRole.less.12	non-gamified.Apprentice	5	-0.12	4.00	20	5	-1.22	0.143	0.408	medium
Type:CLRole.less.22	ont-gamified.Master	4	0.70	6.25	25	5	-1.22	0.143	0.408	medium
Type:CLRole.greater.12	non-gamified.Apprentice	5	-0.12	4.00	20	5	-1.22	0.905	0.408	medium
Type:CLRole.greater.22	ont-gamified.Master	4	0.70	6.25	25	5	-1.22	0.905	0.408	medium
Type:CLRole.two.sided.12	non-gamified.Apprentice	5	-0.12	4.00	20	5	-1.22	0.286	0.408	medium
Type:CLRole.two.sided.22	ont-gamified.Master	4	0.70	6.25	25	5	-1.22	0.286	0.408	medium
Type:CLRole.less.13	non-gamified.Master	2	-0.23	3.50	7	4	-1.29	0.136	0.372	medium
Type:CLRole.less.23	ont-gamified.Apprentice	10	0.24	7.10	71	4	-1.29	0.136	0.372	medium
Type:CLRole.greater.13	non-gamified.Master	2	-0.23	3.50	7	4	-1.29	0.909	0.372	medium
Type:CLRole.greater.23	ont-gamified.Apprentice	10	0.24	7.10	71	4	-1.29	0.909	0.372	medium
Type:CLRole.two.sided.13	non-gamified.Master	2	-0.23	3.50	7	4	-1.29	0.273	0.372	medium
Type:CLRole.two.sided.23	ont-gamified.Apprentice	10	0.24	7.10	71	4	-1.29	0.273	0.372	medium
Type:CLRole.less.14	non-gamified.Master	2	-0.23	2.00	4	1	-1.39	0.133	0.567	large
Type:CLRole.less.24	ont-gamified.Master	4	0.70	4.25	17	1	-1.39	0.133	0.567	large
Type:CLRole.greater.14	non-gamified.Master	2	-0.23	2.00	4	1	-1.39	0.933	0.567	large
Type:CLRole.greater.24	ont-gamified.Master	4	0.70	4.25	17	1	-1.39	0.933	0.567	large
Type:CLRole.two.sided.14	non-gamified.Master	2	-0.23	2.00	4	1	-1.39	0.267	0.567	large
Type:CLRole.two.sided.24	ont-gamified.Master	4	0.70	4.25	17	1	-1.39	0.267	0.567	large
Type:CLRole.less.15	ont-gamified.Apprentice	10	0.24	7.20	72	17	-0.42	0.367	0.113	small
Type:CLRole.less.25	ont-gamified.Master	4	0.70	8.25	33	17	-0.42	0.367	0.113	small
Type:CLRole.greater.15	ont-gamified.Apprentice	10	0.24	7.20	72	17	-0.42	0.682	0.113	small
Type:CLRole.greater.25	ont-gamified.Master	4	0.70	8.25	33	17	-0.42	0.682	0.113	small

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	0.24	7.20	72	17	-0.42	0.733	0.113	small
Type:CLRole.two.sided.25	ont-gamified.Master	4	0.70	8.25	33	17	-0.42	0.733	0.113	small