

Statistical Analysis in the second study for signed up students

October 1, 2018

Table 1: Two-way ANOVA and Scheirer-Ray-Hare in the second study for signed up students

	Sum Sq	Df	F value	Pr(>F)	Sig	Df	Sum Sq	H	p.value	Sig
Attention.(Intercept)	0.028	1	0.018	0.893						
Attention.Type	1.605	1	1.031	0.314		1	628.049	2.209	0.137	
Attention.CLRole	0.006	1	0.004	0.951		1	12.385	0.044	0.835	
Attention.Type:CLRole	2.002	1	1.286	0.262		1	311.029	1.094	0.296	
Attention.Residuals	84.055	54				54	15253.537			
Relevance.(Intercept)	0.002	1	0.005	0.946						
Relevance.Type	0.057	1	0.116	0.735		1	122.415	0.432	0.511	
Relevance.CLRole	0.153	1	0.310	0.580		1	184.844	0.652	0.419	
Relevance.Type:CLRole	0.016	1	0.033	0.856		1	18.694	0.066	0.797	
Relevance.Residuals	26.662	54				54	15832.047			
Satisfaction.(Intercept)	0.002	1	0.001	0.969						
Satisfaction.Type	0.084	1	0.056	0.814		1	39.253	0.139	0.710	
Satisfaction.CLRole	0.325	1	0.216	0.644		1	16.986	0.060	0.806	
Satisfaction.Type:CLRole	1.311	1	0.871	0.355		1	190.331	0.672	0.412	
Satisfaction.Residuals	79.806	53				54	15885.931			
Level of Motivation.(Intercept)	0.003	1	0.005	0.947						
Level of Motivation.Type	0.261	1	0.345	0.559		1	207.265	0.728	0.394	
Level of Motivation.CLRole	0.011	1	0.015	0.903		1	39.526	0.139	0.710	
Level of Motivation.Type:CLRole	0.770	1	1.022	0.317		1	259.282	0.910	0.340	
Level of Motivation.Residuals	40.727	54				54	15731.927			

Signif. codes: 0 “***” 0.01 “**” 0.05

Table 2: Summary of Pair wilcoxon in the second study for signed up students

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Attention.Type:CLRole.less.1	non-gamified.Apprentice	23	-0.70	17.35	399	123	-1.75	0.041	0.279	small
Attention.Type:CLRole.less.2	ont-gamified.Apprentice	16	0.26	23.81	381	123	-1.75	0.041	0.279	small