

Summary of parametric statistics analysis for the differences of scores in the first empirical study for signed-up students

Table 1: Summary of two-way ANOVA results for the differences of scores in the first empirical study for signed-up students

	Sum Sq	Df	F value	Pr(>F)	Sig
Type.(Intercept)	122.977	1	46.205	0.000	
Type.Type	0.718	1	0.270	0.606	
Type.CLRole	51.906	1	19.502	0.000	**
Type.Type:CLRole	1.425	1	0.535	0.468	
Type.Residuals	141.063	53			

Signif. codes: 0 ‘***’ 0.01 ‘**’ 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the differences of scores in the first empirical study for signed-up students

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
Type.non-gamified	27	1.329	1.359	0.314	53	0.729	1.989						
Type.ont-gamified	30	1.584	1.584	0.298	53	0.986	2.181						
Type.non-gamified - ont-gamified	57	-0.254	-0.225	0.433		-1.122	0.614	-0.519	0.606	0.559	-0.133		
Type.non-gamified.Apprentice	13	2.157	2.157	0.452	53	1.249	3.064						
Type.ont-gamified.Apprentice	15	2.698	2.698	0.421	53	1.853	3.543						
Type.non-gamified.Apprentice - ont-gamified.Apprentice	28	-0.542	-0.542	0.618		-2.181	1.098	-0.876	0.385	0.817	-0.273		
Type.non-gamified.Master	14	0.561	0.561	0.436	53	-0.313	1.436						
Type.ont-gamified.Master	15	0.470	0.469	0.421	53	-0.375	1.314						
Type.non-gamified.Master - ont-gamified.Master	29	0.092	0.092	0.606		-1.516	1.700	0.152	0.880	0.999	0.069		