

Summary of parametric statistics analysis for the differences of scores in the second empirical study for students with effective participation

Table 1: Summary of two-way ANOVA results for the differences of scores in the second empirical study for students with effective participation

	Sum Sq	Df	F value	Pr(>F)	Sig
Type.(Intercept)	65.500	1	21.839	0.000	
Type.Type	2.788	1	0.930	0.341	
Type.CLRole	25.915	1	8.641	0.006	**
Type.Type:CLRole	0.850	1	0.283	0.598	
Type.Residuals	116.969	39			

Signif. codes: 0 ‘***’ 0.01 ‘**’ 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the differences of scores in the second empirical study for students with effective participation

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
Type.non-gamified	26	1.935	1.662	0.368	39	0.918	2.407						
Type.ont-gamified	17	1.515	1.094	0.461	39	0.161	2.026						
Type.non-gamified - ont-gamified	43	0.420	0.569	0.590		-0.672	1.513	0.964	0.341	0.441	0.221		
Type.non-gamified.Apprentice	18	2.372	2.372	0.408	39	1.547	3.198						
Type.ont-gamified.Apprentice	12	2.117	2.117	0.500	39	1.106	3.129						
Type.non-gamified.Apprentice - ont-gamified.Apprentice	30	0.255	0.255	0.645		-1.477	1.987	0.395	0.695	0.979	0.134		
Type.non-gamified.Master	8	0.952	0.953	0.612	39	-0.286	2.191						
Type.ont-gamified.Master	5	0.070	0.070	0.774	39	-1.497	1.637						
Type.non-gamified.Master - ont-gamified.Master	13	0.882	0.882	0.987		-1.767	3.532	0.894	0.377	0.808	0.597		