

Summary of parametric statistics analysis for the latent trait estimates of Effort/Importance in the third study for students with effective participation

October 1, 2018

Table 1: Summary of two-way ANOVA results for the latent trait estimates of Effort/Importance in the third study for students with effective participation

	Sum Sq	Df	F value	Pr(>F)	Sig
Type.(Intercept)	0.022	1	0.027	0.870	
Type.Type	4.437	1	5.339	0.026	*
Type.CLRole	1.787	1	2.150	0.151	
Type.Type:CLRole	0.025	1	0.030	0.864	
Type.Residuals	32.411	39			

Signif. codes: 0 ‘***’ 0.01 ‘**’ 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the latent trait estimates of Effort/Importance in the third 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.ont-gamified	24	0.365	0.318	0.192	39	-0.071	0.706						
Type.w/o-gamified	19	-0.277	-0.366	0.225	39	-0.821	0.089						
Type.ont-gamified - w/o-gamified	43	0.642	0.684	0.296		0.076	1.208	2.311	0.026	0.027	0.690	*	medium
Type.ont-gamified.Apprentice	15	0.509	0.509	0.235	39	0.033	0.985						
Type.w/o-gamified.Apprentice	13	-0.124	-0.124	0.253	39	-0.635	0.388						
Type.ont-gamified.Apprentice - w/o-gamified.Apprentice	28	0.633	0.633	0.345		-0.294	1.560	1.832	0.075	0.274	0.678		
Type.ont-gamified.Master	9	0.126	0.126	0.304	39	-0.489	0.741						
Type.w/o-gamified.Master	6	-0.609	-0.609	0.372	39	-1.361	0.144						
Type.ont-gamified.Master - w/o-gamified.Master	15	0.735	0.735	0.480		-0.555	2.024	1.529	0.134	0.430	0.749		