1 Summaries of Parametric Statistics Analysis for the gains in skill/knowledge estimates in the pilot empirical study

Table 1: Summary of two-way ANOVA results for the gains in skill/knowledge estimates in the pilot empirical study

	Sum Sq	Df	F value	Pr(>F)	Sig
Type.(Intercept)	126.330	1	35.770	0.000	
Type.Type	3.087	1	0.874	0.363	
Type.CLRole	42.192	1	11.947	0.003	**
Type.Type:CLRole	0.427	1	0.121	0.732	
Type.Residuals	60.040	17			

Signif. codes: 0 "**" 0.01 "*" 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the gains in skill/knowledge estimates in the pilot empirical study

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.ajd	g	sig	mag
Type.non-gamified	8	2.535	2.196	0.686	17	0.749	3.644						
Type.ont-gamified	13	3.392	3.010	0.536	17	1.880	4.140						
Type.non-gamifed - ont-gamified	21	−0.858	−0.814	0.871		−2.639	0.924	−0.935	0.363	0.324	−0.346		
Type.non-gamified..Apprentice	5	3.550	3.550	0.840	17	1.776	5.323						
Type.ont-gamified..Apprentice	8	4.666	4.666	0.664	17	3.264	6.068						
Type.non-gamified..Apprentice - ont-gamified..Apprentice	13	−1.116	−1.116	1.071		−4.162	1.929	−1.042	0.312	0.728	−0.740		
Type.non-gamified.Master	3	0.843	0.843	1.085	17	−1.446	3.132						
Type.ont-gamified.Master	5	1.355	1.355	0.840	17	−0.419	3.128						
Type.non-gamified.Master - ont-gamified.Master	8	−0.511	−0.511	1.372		−4.413	3.390	−0.373	0.714	0.982	−0.176		

Signif. codes: 0 "**" 0.01 "*" 0.05