

Summary of parametric statistics analysis for the latent trait estimates of Interest/Enjoyment in the first study for signed up students

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Table 1: Summary of two-way ANOVA results for the latent trait estimates of Interest/Enjoyment in the first study for signed up students

| | Sum Sq | Df | F value | Pr(>F) | Sig |
|------------------|--------|----|---------|--------|-----|
| Type.(Intercept) | 0.421 | 1 | 0.419 | 0.520 | |
| Type.Type | 0.946 | 1 | 0.942 | 0.336 | |
| Type.CLRole | 0.268 | 1 | 0.267 | 0.607 | |
| Type.Type:CLRole | 2.003 | 1 | 1.993 | 0.164 | |
| Type.Residuals | 52.258 | 52 | | | |

Signif. codes: 0 ‘***’ 0.01 ‘**’ 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the latent trait estimates of Interest/Enjoyment in the first 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 | 28 | -0.217 | -0.217 | 0.189 | 52 | -0.597 | 0.163 | | | | | | |
| Type.ont-gamified | 28 | 0.062 | 0.043 | 0.190 | 52 | -0.338 | 0.424 | | | | | | |
| Type.non-gamified - ont-gamified | 56 | -0.279 | -0.260 | 0.268 | | -0.816 | 0.259 | -0.970 | 0.336 | 0.303 | -0.274 | | |
| Type.non-gamified.Apprentice | 14 | -0.097 | -0.097 | 0.268 | 52 | -0.635 | 0.441 | | | | | | |
| Type.ont-gamified.Apprentice | 13 | -0.215 | -0.215 | 0.278 | 52 | -0.773 | 0.343 | | | | | | |
| Type.non-gamified.Apprentice - ont-gamified.Apprentice | 27 | 0.118 | 0.118 | 0.386 | | -0.906 | 1.143 | 0.307 | 0.760 | 0.990 | 0.106 | | |
| Type.non-gamified.Master | 14 | -0.337 | -0.337 | 0.268 | 52 | -0.875 | 0.201 | | | | | | |
| Type.ont-gamified.Master | 15 | 0.302 | 0.302 | 0.259 | 52 | -0.217 | 0.821 | | | | | | |
| Type.non-gamified.Master - ont-gamified.Master | 29 | -0.639 | -0.639 | 0.373 | | -1.628 | 0.350 | -1.715 | 0.092 | 0.326 | -0.678 | | |