

1 Summaries of Parametric Statistics Analysis for the latent trait estimates of Effort/Importance in the first empirical study

Table 1: Summary of two-way ANOVA results for the latent trait estimates of Effort/Importance in the first empirical study

| | Sum Sq | Df | F value | Pr(>F) | Sig |
|------------------|--------|----|---------|--------|-----|
| Type.(Intercept) | 0.078 | 1 | 0.086 | 0.770 | |
| Type.Type | 3.861 | 1 | 4.303 | 0.043 | * |
| Type.CLRole | 2.374 | 1 | 2.646 | 0.109 | |
| Type.Type:CLRole | 0.799 | 1 | 0.891 | 0.349 | |
| Type.Residuals | 50.244 | 56 | | | |

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 first empirical study

| | N | mean | lsmean | SE | df | lwr.CI | upr.CI | t.ratio | p.value | p.adj | g | sig | m |
|--|----|--------|--------|-------|----|--------|--------|---------|---------|-------|--------|-----|-----|
| Type.non-gamified | 30 | -0.311 | -0.290 | 0.173 | 56 | -0.637 | 0.057 | | | | | | |
| Type.ont-gamified | 30 | 0.218 | 0.218 | 0.173 | 56 | -0.128 | 0.564 | | | | | | |
| Type.non-gamified - ont-gamified | 60 | -0.529 | -0.508 | 0.245 | | -1.019 | -0.039 | -2.074 | 0.043 | 0.035 | -0.544 | * | med |
| Type.non-gamified.Apprentice | 14 | 0.025 | 0.025 | 0.253 | 56 | -0.482 | 0.532 | | | | | | |
| Type.ont-gamified.Apprentice | 15 | 0.302 | 0.302 | 0.245 | 56 | -0.188 | 0.792 | | | | | | |
| Type.non-gamified.Apprentice - ont-gamified.Apprentice | 29 | -0.277 | -0.277 | 0.352 | | -1.209 | 0.655 | -0.786 | 0.435 | 0.860 | -0.260 | | |
| Type.non-gamified.Master | 16 | -0.605 | -0.605 | 0.237 | 56 | -1.079 | -0.130 | | | | | | |
| Type.ont-gamified.Master | 15 | 0.134 | 0.134 | 0.245 | 56 | -0.356 | 0.624 | | | | | | |
| Type.non-gamified.Master - ont-gamified.Master | 31 | -0.739 | -0.739 | 0.340 | | -1.640 | 0.162 | -2.171 | 0.034 | 0.144 | -0.839 | | |

Signif. codes: 0 ‘***’ 0.01 ‘*’ 0.05