# 1 Summaries of Parametric Statistics Analysis for the latent trait estimates of Relevance in the second empirical study

Table 1: Summary of two-way ANOVA results for the latent trait estimates of Relevance in the second empirical study

|  | Sum Sq | Df | F value | Pr(>F) | Sig |
|---|---|---|---|---|---|
| Type.(Intercept) | 0.002 | 1 | 0.005 | 0.946 |  |
| Type.Type | 0.057 | 1 | 0.116 | 0.735 |  |
| Type.CLRole | 0.153 | 1 | 0.310 | 0.580 |  |
| Type.Type:CLRole | 0.016 | 1 | 0.033 | 0.856 |  |
| Type.Residuals | 26.662 | 54 |  |  |  |

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

Table 2: Descriptive statistics and Tukey post-hoc test results for the latent trait estimates of Relevance in the second empirical study

| | N | mean | lsmean | SE | df | lwr.CI | upr.CI | t.ratio | p.value | p.ajd | g | sig | mag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type.non-gamified | 34 | −0.053 | −0.027 | 0.129 | 54 | −0.285 | 0.231 | | | | | | |
| Type.ont-gamified | 24 | 0.028 | 0.041 | 0.152 | 54 | −0.264 | 0.346 | | | | | | |
| Type.non-gamified - ont-gamified | 58 | −0.081 | −0.068 | 0.199 | | −0.457 | 0.294 | −0.340 | 0.735 | 0.666 | −0.116 | | |
| Type.non-gamified.Apprentice | 23 | −0.101 | −0.101 | 0.147 | 54 | −0.395 | 0.193 | | | | | | |
| Type.ont-gamified.Apprentice | 16 | 0.003 | 0.003 | 0.176 | 54 | −0.349 | 0.356 | | | | | | |
| Type.non-gamified.Apprentice - ont-gamified.Apprentice | 39 | −0.104 | −0.104 | 0.229 | | −0.711 | 0.502 | −0.455 | 0.651 | 0.968 | −0.130 | | |
| Type.non-gamified.Master | 11 | 0.047 | 0.047 | 0.212 | 54 | −0.378 | 0.471 | | | | | | |
| Type.ont-gamified.Master | 8 | 0.078 | 0.078 | 0.248 | 54 | −0.420 | 0.576 | | | | | | |
| Type.non-gamified.Master - ont-gamified.Master | 19 | −0.031 | −0.031 | 0.327 | | −0.897 | 0.834 | −0.096 | 0.924 | 1.000 | −0.064 | | |

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