## Table X. Wald Khi² Tests (Type III ANOVA) for Fixed Effects of the theoretical model

| Effect | Khi² | df | p | Pseudo R² |
| --- | --- | --- | --- | --- |
| (Intercept) | 6,728.254 | 1 | 0.000 | 0.000 |
| Movement Type | 7.140 | 1 | 0.008 | 0.004 |
| Direction | 0.334 | 1 | 0.564 | 0.004 |
| Distance | 376.820 | 2 | 0.000 | 0.061 |
| Speed | 18.248 | 1 | 0.000 | 0.007 |
| Time | 0.225 | 1 | 0.635 | 0.000 |
| Error Direction | 0.256 | 1 | 0.613 | 0.003 |
| Direction \* Distance | 18.678 | 2 | 0.000 | 0.004 |
| Movement Type \* Distance | 3.392 | 2 | 0.183 | 0.002 |
| Movement Type \* Direction | 0.005 | 1 | 0.942 | 0.001 |
| Movement Type \* Speed | 1.650 | 1 | 0.199 | 0.001 |
| Distance \* Speed | 12.396 | 2 | 0.002 | 0.004 |
| Movement Type \* Error Direction | 3.537 | 1 | 0.060 | 0.002 |
| Speed \* Error Direction | 0.494 | 1 | 0.482 | 0.002 |
| Distance \* Error Direction | 3.422 | 2 | 0.181 | 0.002 |
| Direction \* Speed | 0.676 | 1 | 0.411 | 0.001 |
| Movement Type \* Direction \* Distance | 1.401 | 2 | 0.496 | 0.001 |
| Movement Type \* Distance \* Speed | 2.320 | 2 | 0.313 | 0.001 |
| Movement Type \* Speed \* Error Direction | 0.749 | 1 | 0.387 | 0.000 |
| Movement Type \* Distance \* Error Direction | 3.676 | 2 | 0.159 | 0.001 |
| Distance \* Speed \* Error Direction | 8.335 | 2 | 0.015 | 0.002 |
| Movement Type \* Direction \* Speed | 1.427 | 1 | 0.232 | 0.001 |
| Direction \* Distance \* Speed | 3.666 | 2 | 0.160 | 0.001 |
| Movement Type \* Distance \* Speed \* Error Direction | 1.578 | 2 | 0.454 | 0.000 |
| Movement Type \* Direction \* Distance \* Speed | 2.461 | 2 | 0.292 | 0.000 |

Note. ??² = Wald chi-square test statistic. p < .05 is considered statistically significant.
To fit the model we used the BOBYQA optimiser using the glmer function in the lme4 package.