# Supplemental Tables

## Supplemental Table

Mixed Model: Virtual time explains constructed times with order and real time in the model

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | 14.010019 | 0.069962 | 200.25 | 13.868056 | 14.151981 |
| virtual time | | 3.069324 | 0.259967 | 11.81 | 2.558874 | 3.579774 |
| order | | 1.667630 | 0.430230 | 3.88 | 0.822785 | 2.512476 |
| real time | | -0.332261 | 0.473306 | -0.70 | -1.261696 | 0.597173 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | intercept | | | | | 0.221991 |
| participant | virtual time (SD) | | | | | 0.232089 |
| participant | correlation random intercepts and random slopes | | | | | 0.165592 |
| residual | SD | | | | | 1.324919 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 7 | 2053.90 | -1019.95 |  |  |  |
| full model | 8 | 1939.95 | -961.98 | 115.95 | 1 | 4.88e-27 |
| model: memory\_time~virtual\_time\_z+order\_z+real\_time\_z+(1+virtual\_time\_z|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Virtual time explains representational change for same-sequence events in the anterior hippocampus

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000326 | 0.000211 | -1.54 | -0.000740 | 0.000088 |
| virtual time | | 0.000751 | 0.000220 | 3.42 | 0.000307 | 0.001196 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | intercept (SD) | | | | | 0.000001 |
| participant | virtual time | | | | | 0.000257 |
| residual | SD | | | | | 0.006917 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 4 | -7943.56 | 3975.78 |  |  |  |
| full model | 5 | -7951.43 | 3980.72 | 9.87 | 1 | 0.002 |
| model: ps\_change~vir\_time\_diff+((1|sub\_id)+(0+vir\_time\_diff|sub\_id));  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Virtual time explains representational change for same-sequence events in the anterior hippocampus when controlling for the effect of first-last event pairs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000015 | 0.000421 | -0.04 | -0.000841 | 0.000810 |
| virtual time | | 0.000626 | 0.000264 | 2.37 | 0.000099 | 0.001152 |
| first-last pair | | 0.000357 | 0.000418 | 0.85 | -0.000462 | 0.001176 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | intercept (SD) | | | | | 0.000001 |
| participant | virtual time (SD) | | | | | 0.000258 |
| residual | SD | | | | | 0.006914 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 5 | -7946.81 | 3978.40 |  |  |  |
| full model | 6 | -7950.16 | 3981.08 | 5.36 | 1 | 0.021 |
| model: ps\_change~vir\_time\_diff+first\_last+((1|sub\_id)+(0+vir\_time\_diff|sub\_id));  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Virtual time explains representational change for same-sequence events in the anterior hippocampus when including order and real time in the model

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000281 | 0.000219 | -1.28 | -0.000711 | 0.000149 |
| virtual time | | 0.001321 | 0.000541 | 2.44 | 0.000258 | 0.002383 |
| order | | 0.000012 | 0.000908 | 0.01 | -0.001768 | 0.001793 |
| real time | | -0.000676 | 0.001019 | -0.66 | -0.002675 | 0.001323 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | virtual time (SD) | | | | | 0.000260 |
| residual | SD | | | | | 0.006913 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 5 | -7946.84 | 3978.42 |  |  |  |
| full model | 6 | -7950.76 | 3981.38 | 5.92 | 1 | 0.015 |
| model: ps\_change~vir\_time\_diff+order\_diff+real\_time\_diff+(0+vir\_time\_diff|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Virtual time explains representational change for different-sequence events in the anterior hippocampus

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000061 | 0.000110 | -0.55 | -0.000276 | 0.000155 |
| virtual time | | -0.000275 | 0.000110 | -2.51 | -0.000491 | -0.000058 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | virtual time (SD) | | | | | 0.000000 |
| residual | SD | | | | | 0.007107 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 3 | -29621.39 | 14813.69 |  |  |  |
| full model | 4 | -29625.40 | 14816.70 | 6.01 | 1 | 0.014 |
| model: ps\_change~vir\_time\_diff+(0+vir\_time\_diff|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Virtual time explains representational change for different-sequence events in the anterior hippocampus when including order and real time in the model

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000101 | 0.000112 | -0.90 | -0.000319 | 0.000118 |
| virtual time | | -0.000623 | 0.000294 | -2.12 | -0.001201 | -0.000046 |
| order | | -0.000348 | 0.000478 | -0.73 | -0.001284 | 0.000589 |
| real time | | 0.000702 | 0.000529 | 1.33 | -0.000334 | 0.001739 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | virtual time (SD) | | | | | 0.000000 |
| residual | SD | | | | | 0.007077 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 5 | -28594.64 | 14302.32 |  |  |  |
| full model | 6 | -28597.12 | 14304.56 | 4.48 | 1 | 0.034 |
| model: ps\_change~vir\_time\_diff+order\_diff+real\_time\_diff+(0+vir\_time\_diff|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: The effect of virtual time differs between same-sequence and different-sequence events in the anterior hippocampus

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000193 | 0.000121 | -1.60 | -0.000430 | 0.000044 |
| virtual time | | 0.000238 | 0.000122 | 1.95 | -0.000001 | 0.000478 |
| day | | -0.000133 | 0.000121 | -1.10 | -0.000370 | 0.000104 |
| interaction virtual time and day | | 0.000513 | 0.000127 | 4.05 | 0.000261 | 0.000765 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | interaction virtual time and day (SD) | | | | | 0.000176 |
| residual | SD | | | | | 0.007066 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 5 | -37569.38 | 18789.69 |  |  |  |
| full model | 6 | -37581.75 | 18796.87 | 14.37 | 1 | 1.50e-04 |
| model: ps\_change~vir\_time\_diff\*same\_day\_dv+(0+vir\_time\_diff:same\_day\_dv|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: The effect of virtual time differs between same-sequence and different-sequence events in the anterior hippocampus when including interactions with other time metrics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000190 | 0.000122 | -1.55 | -0.000428 | 0.000049 |
| virtual time | | 0.000237 | 0.000124 | 1.92 | -0.000005 | 0.000480 |
| day | | -0.000130 | 0.000121 | -1.07 | -0.000368 | 0.000108 |
| interaction virtual time and day | | 0.000769 | 0.000262 | 2.93 | 0.000255 | 0.001283 |
| interaction order and day | | 0.000287 | 0.000418 | 0.69 | -0.000533 | 0.001106 |
| interaction real time and day | | -0.000558 | 0.000464 | -1.20 | -0.001468 | 0.000351 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | interaction virtual time and day (SD) | | | | | 0.000176 |
| residual | SD | | | | | 0.007065 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 7 | -37572.96 | 18793.48 |  |  |  |
| full model | 8 | -37579.53 | 18797.77 | 8.57 | 1 | 0.003 |
| model: ps\_change~vir\_time\_diff\*same\_day\_dv+order\_diff:same\_day\_dv+real\_time\_diff:same\_day\_dv+(0+vir\_time\_diff:same\_day\_dv|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Virtual time explains representational change in the anterior-lateral entorhinal cortex (all events)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | 0.000167 | 0.000202 | 0.83 | -0.000229 | 0.000563 |
| virtual time | | -0.000424 | 0.000202 | -2.09 | -0.000820 | -0.000027 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | virtual time (SD) | | | | | 0.000000 |
| residual | SD | | | | | 0.014734 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 3 | -29767.39 | 14886.69 |  |  |  |
| full model | 4 | -29769.77 | 14888.89 | 4.39 | 1 | 0.036 |
| model: ps\_change~vir\_time\_diff+(0+vir\_time\_diff|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Virtual time does not explain representational change for different-sequence events in the anterior-lateral entorhinal cortex when including order and real time in the model

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | 0.000167 | 0.000202 | 0.83 | -0.000229 | 0.000563 |
| virtual time | | -0.000576 | 0.000531 | -1.09 | -0.001617 | 0.000464 |
| order | | -0.000712 | 0.000862 | -0.83 | -0.002402 | 0.000978 |
| real time | | 0.000862 | 0.000966 | 0.89 | -0.001031 | 0.002754 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | virtual time (SD) | | | | | 0.000000 |
| residual | SD | | | | | 0.014733 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 5 | -29767.41 | 14888.71 |  |  |  |
| full model | 6 | -29766.59 | 14889.30 | 1.18 | 1 | 0.278 |
| model: ps\_change~vir\_time\_diff+order\_diff+real\_time\_diff+(0+vir\_time\_diff|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: The effect of virtual time differentially depends on sequence membership in the anterior hippocampus and the anterior-lateral entorhinal cortex

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000193 | 0.000219 | -0.89 | -0.000622 | 0.000235 |
| virtual time | | 0.000238 | 0.000200 | 1.19 | -0.000153 | 0.000630 |
| day | | -0.000133 | 0.000197 | -0.67 | -0.000520 | 0.000254 |
| ROI | | 0.000455 | 0.000279 | 1.63 | -0.000093 | 0.001002 |
| virtual time \* day | | 0.000513 | 0.000202 | 2.54 | 0.000117 | 0.000909 |
| virtual time \* ROI | | -0.000810 | 0.000282 | -2.87 | -0.001363 | -0.000257 |
| day \* ROI | | 0.000261 | 0.000279 | 0.94 | -0.000286 | 0.000808 |
| virtual time \* day \* ROI | | -0.000745 | 0.000294 | -2.54 | -0.001321 | -0.000169 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | intercept (SD) | | | | | 0.000496 |
| participant | corr. intercept, virtual time:day:ROI1 | | | | | -1.000000 |
| participant | corr. intercept, virtual time:day:ROI-1 | | | | | -0.151340 |
| participant | virtual time:day:ROI1 (SD) | | | | | 0.000170 |
| participant | corr. virtual time:day:ROI1, virtual time:day:ROI-1 | | | | | 0.151340 |
| participant | virtual time:day:ROI-1 (SD) | | | | | 0.000421 |
| residual | SD | | | | | 0.011540 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 14 | -64699.87 | 32363.94 |  |  |  |
| full model | 15 | -64704.19 | 32367.09 | 6.31 | 1 | 0.012 |
| model: ps\_change~vir\_time\_diff\*same\_day\_dv\*roi\_dv+(1+vir\_time\_diff:same\_day\_dv:roi\_dv|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Searchlight Analysis: Virtual time explains representational change for same-sequence events

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Searchlight results in a priori regions of interest, p-values corrected using small volume correction** | | | | | | | | | |
| **Atlas Label** | **Voxel Extent** | **x** | **y** | **z** | **COG x** | **COG y** | **COG z** | **t** | **p** |
| left hippocampus | 193 | -24 | -13 | -20 | -23.3 | -13.1 | -19.8 | 4.53 | 0.006 |
| right hippocampus | 96 | 31 | -16 | -20 | 30.1 | -16.7 | -19.8 | 3.56 | 0.035 |
| left hippocampus | 76 | -27 | -20 | -15 | -27.9 | -19.5 | -16.6 | 3.47 | 0.029 |
| **Exploratory searchlight results, p-values uncorrected** | | | | | | | | | |
| **Atlas Label** | **Voxel Extent** | **x** | **y** | **z** | **COG x** | **COG y** | **COG z** | **t** | **p** |
| frontal pole | 399 | 50 | 44 | 16 | 48.3 | 41.6 | 19.2 | 3.96 | 0.0002 |
| frontal pole | 173 | 53 | 41 | -7 | 51.1 | 42.9 | -4.45 | 4.56 | 0.0002 |
| left entorhinal cortex | 119 | -18 | -16 | -32 | -21.2 | -14.6 | -31.2 | 3.45 | 0.0004 |
| inferior frontal gyrus | 91 | 40 | 27 | 2 | 44.2 | 28 | 3.59 | 4.29 | 0.0002 |
| lingual gyrus | 86 | -17 | -58 | -15 | -15.7 | -56.9 | -9.64 | 3.82 | 0.0002 |
| frontal medial cortex | 49 | 7 | 35 | -23 | 6.29 | 36.7 | -24.1 | 4.28 | 0.0004 |
| x, y, z refer to MNI coordinates of minimum p-value in cluster, t denotes the most extreme t-value, COG: center of gravity | | | | | | | | | |

## Supplemental Table

Mixed Model: Virtual time explains representational change for different-sequence events in the peak cluster of the same-sequence searchlight analysis

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.000097 | 0.000234 | -0.41 | -0.000557 | 0.000362 |
| virtual time | | -0.000478 | 0.000234 | -2.04 | -0.000939 | -0.000018 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | virtual time (SD) | | | | | 0.000000 |
| residual | SD | | | | | 0.015162 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 3 | -23257.87 | 11631.93 |  |  |  |
| full model | 4 | -23260.00 | 11634.00 | 4.13 | 1 | 0.042 |
| model: ps\_change~vir\_time\_diff+(0+vir\_time\_diff|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Searchlight Analysis: Virtual time explains representational change for different-sequence events

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Exploratory searchlight results, p-values uncorrected** | | | | | | | | | |
| **Atlas Label** | **Voxel Extent** | **x** | **y** | **z** | **COG x** | **COG y** | **COG z** | **t** | **p** |
| cerebellum | 314 | 19 | -68 | -34 | 19.1 | -66.3 | -29.6 | -5.37 | 0.0002 |
| cerebellum | 104 | -1 | -68 | -14 | -1.86 | -69.1 | -14.3 | -3.44 | 0.0002 |
| lingual gyrus | 100 | -1 | -70 | 4 | -2.68 | -70.5 | 4.56 | -3.73 | 0.0002 |
| x, y, z refer to MNI coordinates of minimum p-value in cluster, t denotes the most extreme t-value, COG: center of gravity | | | | | | | | | |

## Supplemental Table

Searchlight Analysis: Interaction of virtual time and sequence membership

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Searchlight results in a priori regions of interest, p-values corrected using small volume correction** | | | | | | | | | |
| **Atlas Label** | **Voxel Extent** | **x** | **y** | **z** | **COG x** | **COG y** | **COG z** | **t** | **p** |
| left hippocampus | 359 | -26 | -20 | -15 | -23.4 | -15.5 | -18.6 | 4.15 | 0.014 |
| right hippocampus | 335 | 31 | -16 | -21 | 30.7 | -15.1 | -20.1 | 4.25 | 0.007 |
| **Exploratory searchlight results, p-values uncorrected** | | | | | | | | | |
| **Atlas Label** | **Voxel Extent** | **x** | **y** | **z** | **COG x** | **COG y** | **COG z** | **t** | **p** |
| occipital pole | 103 | 17 | -91 | -8 | 17.7 | -90.6 | -6.62 | 4.08 | 0.0002 |
| lingual gyrus | 102 | -5 | -73 | 5 | -3.59 | -70.4 | 5.01 | 3.72 | 0.0002 |
| frontal pole | 96 | 43 | 43 | 18 | 45.4 | 43.4 | 19.7 | 4.31 | 0.0006 |
| frontal pole | 45 | 35 | 43 | 17 | 37 | 43.2 | 18.5 | 3.81 | 0.0006 |
| temporal fusiform cortex | 40 | -25 | -10 | -45 | -25.3 | -10.3 | -42.9 | 3.14 | 0.0004 |
| intracalcarine sulcus | 33 | -4 | -77 | 11 | -2.85 | -75.8 | 11.5 | 3.56 | 0.0002 |
| x, y, z refer to MNI coordinates of minimum p-value in cluster, t denotes the most extreme t-value, COG: center of gravity | | | | | | | | | |

## Supplemental Table

Mixed Model: Behavioral generalization bias

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.352481 | 0.069962 | -5.04 | -0.494444 | -0.210518 |
| relative time other events | | 0.337262 | 0.067360 | 5.01 | 0.200579 | 0.473945 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | intercept | | | | | 0.220016 |
| participant | relative time other events (SD) | | | | | -0.114173 |
| participant | correlation random intercepts and random slopes | | | | | 0.183681 |
| residual | SD | | | | | 1.331485 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 5 | 1958.57 | -974.29 |  |  |  |
| full model | 6 | 1942.67 | -965.34 | 17.90 | 1 | 2.32e-05 |
| model: timeline\_error~rel\_time\_other\_events\_z+(1+rel\_time\_other\_events\_z|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |

## Supplemental Table

Mixed Model: Behavioral generalization bias (replication)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **fixed effects** | |  |  |  |  |  |
| **term** | | **estimate** | **SE** | **t-value** | **95% CI** | |
| intercept | | -0.320564 | 0.089155 | -3.60 | -0.495488 | -0.145640 |
| relative time other events | | 0.863631 | 0.091472 | 9.44 | 0.684152 | 1.043110 |
| **random effects** |  | | | | |  |
| **group** | **term** | | | | | **estimate** |
| participant | relative time other events (SD) | | | | | 0.000000 |
| residual | SD | | | | | 2.704218 |
| **model comparison** |  |  |  |  |  |  |
| **model** | **npar** | **AIC** | **LL** | **χ2** | **df** | **p** |
| reduced model | 3 | 4501.04 | -2247.52 |  |  |  |
| full model | 4 | 4449.30 | -2220.65 | 53.74 | 1 | 2.29e-13 |
| model: timeline\_error~rel\_time\_other\_events\_z+(0+rel\_time\_other\_events\_z|sub\_id);  SE: standard error, CI: confidence interval, SD: standard deviation, npar: number of parameters, LL: log likelihood, df: degrees of freedom, corr.: correlation | | | | | | |