## Table S4

Posterior parameter estimates (individual level): *rewSens, effSens*

| Day | parameter | mean | se (mean) | sd | 5% | 95% | *Neff* | *R̂* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | effort sensitivity | 1.75 | 0.44 | 4.77 | -2.68 | 6.10 | 4,763.22 | 1 |
| 2 | effort sensitivity | 1.82 | 0.49 | 5.35 | -2.69 | 6.23 | 6,679.76 | 1 |
| 4 | effort sensitivity | 1.45 | 0.48 | 5.30 | -3.11 | 5.89 | 7,467.00 | 1 |
| 6 | effort sensitivity | 1.32 | 0.43 | 4.67 | -2.86 | 5.36 | 6,814.87 | 1 |
| 8 | effort sensitivity | 1.16 | 0.44 | 4.85 | -2.98 | 5.19 | 7,450.36 | 1 |
| 10 | effort sensitivity | 1.06 | 0.39 | 4.22 | -2.59 | 4.62 | 7,027.46 | 1 |
| 12 | effort sensitivity | 1.41 | 0.48 | 5.22 | -3.19 | 5.93 | 6,894.65 | 1 |
| 14 | effort sensitivity | 0.87 | 0.38 | 4.17 | -2.64 | 4.32 | 6,995.16 | 1 |
| 0 | reward sensitivity | 2.13 | 0.11 | 1.19 | 0.90 | 3.53 | 4,425.85 | 1 |
| 2 | reward sensitivity | 2.37 | 0.13 | 1.46 | 1.17 | 3.74 | 6,007.78 | 1 |
| 4 | reward sensitivity | 2.70 | 0.14 | 1.49 | 1.36 | 4.24 | 7,023.94 | 1 |
| 6 | reward sensitivity | 2.32 | 0.13 | 1.47 | 1.14 | 3.68 | 6,112.01 | 1 |
| 8 | reward sensitivity | 2.70 | 0.16 | 1.76 | 1.38 | 4.23 | 7,096.97 | 1 |
| 10 | reward sensitivity | 2.22 | 0.15 | 1.62 | 1.08 | 3.52 | 6,440.50 | 1 |
| 12 | reward sensitivity | 2.55 | 0.18 | 2.00 | 1.19 | 4.13 | 6,258.03 | 1 |
| 14 | reward sensitivity | 2.36 | 0.17 | 1.85 | 1.11 | 3.80 | 6,583.92 | 1 |

## Table S5

Posterior parameter estimates (individuals) : *θ*

| t | mean | se (mean) | sd | 5% | 95% | *Neff* | *R̂* |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 0.34 | 0.06 | 0.65 | -0.58 | 1.28 | 4,180.15 | 1 |
| 2 | 0.08 | 0.08 | 0.84 | -0.93 | 1.13 | 6,140.56 | 1 |
| 3 | 0.21 | 0.06 | 0.69 | -0.73 | 1.20 | 6,266.74 | 1 |
| 4 | 0.22 | 0.08 | 0.92 | -0.78 | 1.24 | 6,081.56 | 1 |
| 5 | 0.18 | 0.08 | 0.84 | -0.87 | 1.26 | 7,179.08 | 1 |
| 6 | 0.15 | 0.07 | 0.74 | -0.83 | 1.16 | 6,654.82 | 1 |
| 7 | 0.02 | 0.06 | 0.67 | -0.92 | 1.00 | 7,168.70 | 1 |
| 8 | -0.16 | 0.07 | 0.78 | -1.17 | 0.87 | 6,898.88 | 1 |
| 9 | 0.12 | 0.06 | 0.63 | -0.83 | 1.10 | 6,855.23 | 1 |
| 10 | -0.08 | 0.06 | 0.62 | -1.00 | 0.87 | 6,600.11 | 1 |
| 11 | 0.18 | 0.08 | 0.87 | -0.83 | 1.23 | 7,427.43 | 1 |
| 12 | 0.11 | 0.05 | 0.51 | -0.81 | 1.06 | 7,030.12 | 1 |
| 13 | 0.34 | 0.07 | 0.80 | -0.61 | 1.31 | 6,749.13 | 1 |
| 14 | 0.12 | 0.08 | 0.89 | -0.95 | 1.23 | 7,571.17 | 1 |
| 15 | 0.02 | 0.08 | 0.90 | -1.05 | 1.13 | 7,695.42 | 1 |
| 16 | -0.09 | 0.06 | 0.68 | -0.96 | 0.81 | 6,838.35 | 1 |
| 17 | -0.18 | 0.05 | 0.54 | -0.98 | 0.67 | 6,597.73 | 1 |
| 18 | -0.09 | 0.06 | 0.61 | -0.98 | 0.84 | 7,199.95 | 1 |
| 19 | -0.17 | 0.06 | 0.67 | -1.13 | 0.83 | 7,442.00 | 1 |
| 20 | 0.15 | 0.05 | 0.60 | -0.84 | 1.18 | 8,049.53 | 1 |
| 21 | -0.39 | 0.08 | 0.89 | -1.32 | 0.57 | 6,850.65 | 1 |
| 22 | 0.03 | 0.07 | 0.78 | -0.90 | 0.99 | 7,734.38 | 1 |
| 23 | -0.02 | 0.07 | 0.72 | -1.01 | 1.01 | 8,029.59 | 1 |
| 24 | -0.27 | 0.08 | 0.90 | -1.19 | 0.68 | 7,439.24 | 1 |
| 25 | -0.30 | 0.06 | 0.71 | -1.24 | 0.68 | 7,650.76 | 1 |
| 26 | -0.30 | 0.05 | 0.55 | -1.12 | 0.53 | 7,519.22 | 1 |
| 27 | -0.03 | 0.07 | 0.78 | -1.03 | 1.01 | 8,029.32 | 1 |
| 28 | 0.11 | 0.06 | 0.67 | -0.85 | 1.11 | 7,782.86 | 1 |
| 29 | -0.28 | 0.09 | 0.94 | -1.20 | 0.66 | 6,684.10 | 1 |

## Table S6

Posterior parameter estimates for effects (group): *β*

| parameter | level | domain | mean | sd | 5% | 95% | *Neff* | *rhat* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *β*stateR | state | reward | 0.19 | 0.08 | 0.06 | 0.32 | 1,742.63 | 1 |
| *β*stateE | state | effort | 0.29 | 0.32 | -0.23 | 0.82 | 1,621.47 | 1 |
| *β*traitR | trait | reward | -0.22 | 0.23 | -0.60 | 0.15 | 1,004.45 | 1 |
| *β*traitE | trait | effort | 0.65 | 0.49 | -0.16 | 1.44 | 2,371.81 | 1 |