**Supplementary file 1.** Estimates of the computational model of social perception (hyper-mean parameter estimates, means of the posterior distributions with 95% Highest Density Interval, HDI).

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|  | **Condition** |
| **Parameter** | **Merit** | **Need** | **Control** |
| *bias* | 0.29[0.10, 0.47] | -0.12[-0.31, 0.06] | 0.09[-0.05, 0.23] |
| *Smerit* | **2.94**[2.48, 3.35] | 0.39[-0.07, 0.85] | 0.22[0.11, 0.33] |
| *Sneed* | 0.39[-0.002, 0.78] | **3.31**[2.93, 3.64] | -0.12[-0.22, -0.02] |
| *Scontrol* | 0.42[0.21, 0.64] | 0.26[0.11, 0.41] | **4.57**[4.22, 4.78] |
| *z* | 0.53[0.51, 0.54] | 0.60[0.59, 0.62] | 0.55[0.53, 0.56] |
| *a* | 1.83[1.75, 1.92] | 1.85[1.77, 1.93] | 1.76[1.68, 1.84] |
| *ndt* | 0.59[0.52, 0.66] | 0.62[0.55, 0.69] | 0.60[0.54, 0.67] |

*Note. bias* = overall perceptual bias; *Smerit* = merit sensitivity, *Sneed* = need sensitivity, *Scontrol* = control sensitivity), bold indicates task-relevant sensitivity scores, *z* = starting bias, *a* = difference between barriers, *ndt* = non-decision time