|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model formula: | moral judgment ~ anger\*foundations +  amusement\*foundations +  sadness\*foundations +  disgust\*foundations +  fear\*foundation +contempt\*foundations +  Personal Distress Score\*foundations +  Empathic Concern Score\*foundations +  Perspective Taking Score\*foundations +  Fantasy Score\*foundations +  (1|Participant) + (1|Vignette) | | | | |
|  | **moral judgment** | | | | |
| *Factors* | *Estimates* | *CI (95%)* | *df* | *t value* | *p value* |
| Intercept | 2.405 | 2.295 – 2.515 | 33.775 | 42.750 | **<0.001** |
| Social Norms | -0.967 | -1.191 – -0.744 | 953.435 | -8.480 | **<0.001** |
| Authority | -0.072 | -0.206 – 0.061 | 154.361 | -1.062 | 0.290 |
| Loyalty | -0.107 | -0.241 – 0.028 | 157.997 | -1.553 | 0.122 |
| Purity | 0.016 | -0.153 – 0.185 | 342.033 | 0.183 | 0.855 |
| Harm-Emo | 0.163 | 0.028 – 0.299 | 161.844 | 2.365 | **0.019** |
| Harm-Phys | 0.514 | 0.383 – 0.645 | 141.549 | 7.680 | **<0.001** |
| Fairness | 0.345 | 0.208 – 0.481 | 166.480 | 4.951 | **<0.001** |
| Anger | 0.111 | 0.058 – 0.165 | 2899.305 | 4.074 | **<0.001** |
| Amusement | -0.098 | -0.134 – -0.063 | 2873.436 | -5.445 | **<0.001** |
| Sadness | 0.046 | 0.005 – 0.088 | 2902.825 | 2.204 | **0.028** |
| Fear | -0.008 | -0.054 – 0.039 | 2811.939 | -0.330 | 0.742 |
| Contempt | 0.073 | 0.024 – 0.121 | 2786.005 | 2.935 | **0.003** |
| Disgust | 0.161 | 0.113 – 0.208 | 2889.992 | 6.591 | **<0.001** |
| Personal Distress | 0.080 | -0.029 – 0.189 | 21.251 | 1.438 | 0.165 |
| Empathic Concern | 0.037 | -0.064 – 0.138 | 20.743 | 0.726 | 0.476 |
| Perspective Taking | -0.114 | -0.226 – -0.001 | 20.910 | -1.986 | 0.060 |
| Fantasy | -0.022 | -0.128 – 0.085 | 20.768 | -0.398 | 0.694 |
| Social Norms\*Anger | -0.108 | -0.366 – 0.150 | 2892.890 | -0.821 | 0.412 |
| Authority\*Anger | 0.089 | -0.033 – 0.211 | 2844.583 | 1.434 | 0.152 |
| Loyalty\*Anger | -0.095 | -0.230 – 0.040 | 2892.477 | -1.373 | 0.170 |
| Purity\*Anger | -0.043 | -0.145 – 0.060 | 2901.906 | -0.814 | 0.415 |
| Harm-Emo\*Anger | 0.044 | -0.070 – 0.158 | 2867.777 | 0.749 | 0.454 |
| Harm-Phys\*Anger | -0.065 | -0.169 – 0.040 | 2862.876 | -1.217 | 0.224 |
| Fairness\*Anger | 0.023 | -0.079 – 0.126 | 2902.004 | 0.450 | 0.653 |
| Social Norms\*Amusement | 0.015 | -0.050 – 0.080 | 2906.697 | 0.450 | 0.653 |
| Authority\*Amusement | 0.042 | -0.045 – 0.130 | 2857.112 | 0.950 | 0.342 |
| Loyalty\*Amusement | 0.034 | -0.042 – 0.109 | 2867.273 | 0.869 | 0.385 |
| Purity\*Amusement | -0.037 | -0.113 – 0.039 | 2886.434 | -0.961 | 0.337 |
| Harm-Emo\*Amusement | -0.027 | -0.125 – 0.070 | 2900.347 | -0.552 | 0.581 |
| Harm-Phys\*Amusement | 0.150 | 0.071 – 0.230 | 2890.863 | 3.706 | **<0.001** |
| Fairness\*Amusement | -0.047 | -0.154 – 0.060 | 2898.925 | -0.866 | 0.387 |
| Social Norms\*Sadness | 0.010 | -0.122 – 0.143 | 2908.843 | 0.153 | 0.878 |
| Authority\*Sadness | 0.022 | -0.096 – 0.139 | 2879.137 | 0.363 | 0.716 |
| Loyalty\*Sadness | -0.133 | -0.231 – -0.034 | 2882.520 | -2.642 | **0.008** |
| Purity\*Sadness | -0.004 | -0.086 – 0.078 | 2856.466 | -0.091 | 0.927 |
| Harm-Emo\*Sadness | -0.005 | -0.090 – 0.079 | 2859.220 | -0.127 | 0.899 |
| Harm-Phys\*Sadness | 0.018 | -0.072 – 0.108 | 2872.070 | 0.395 | 0.693 |
| Fairness\*Sadness | 0.117 | 0.002 – 0.231 | 2899.584 | 2.003 | **0.045** |
| Social Norms\*Fear | -0.065 | -0.218 – 0.088 | 2891.882 | -0.834 | 0.405 |
| Authority\*Fear | -0.127 | -0.250 – -0.004 | 2835.326 | -2.021 | **0.043** |
| Loyalty\*Fear | 0.079 | -0.040 – 0.198 | 2826.485 | 1.301 | 0.194 |
| Purity\*Fear | 0.030 | -0.043 – 0.104 | 2871.217 | 0.807 | 0.420 |
| Harm-Emo\*Fear | -0.069 | -0.186 – 0.048 | 2858.593 | -1.160 | 0.246 |
| Harm-Phys\*Fear | -0.004 | -0.075 – 0.067 | 2853.821 | -0.114 | 0.910 |
| Fairness\*Fear | 0.064 | -0.061 – 0.188 | 2853.049 | 1.004 | 0.316 |
| Social Norms\*Contempt | 0.098 | -0.125 – 0.322 | 2846.559 | 0.863 | 0.388 |
| Authority\*Contempt | -0.036 | -0.138 – 0.066 | 2829.502 | -0.687 | 0.492 |
| Loyalty\*Contempt | 0.056 | -0.048 – 0.159 | 2845.608 | 1.057 | 0.291 |
| Purity\*Contempt | -0.023 | -0.111 – 0.064 | 2837.768 | -0.528 | 0.598 |
| Harm-Emo\*Contempt | -0.026 | -0.116 – 0.063 | 2835.055 | -0.577 | 0.564 |
| Harm-Phys\*Contempt | -0.120 | -0.207 – -0.033 | 2825.330 | -2.717 | **0.007** |
| Fairness\*Contempt | -0.011 | -0.093 – 0.071 | 2827.485 | -0.254 | 0.799 |
| Social Norms\*Disgust | -0.098 | -0.261 – 0.065 | 2518.842 | -1.178 | 0.239 |
| Authority\*Disgust | -0.051 | -0.179 – 0.078 | 2859.326 | -0.774 | 0.439 |
| Loyalty\*Disgust | 0.089 | -0.039 – 0.217 | 2867.863 | 1.358 | 0.175 |
| Purity\*Disgust | 0.388 | 0.284 – 0.492 | 2812.127 | 7.297 | **<0.001** |
| Harm-Emo\*Disgust | 0.026 | -0.076 – 0.129 | 2868.041 | 0.504 | 0.615 |
| Harm-Phys\*Disgust | -0.125 | -0.224 – -0.025 | 2897.005 | -2.462 | **0.014** |
| Fairness\*Disgust | -0.104 | -0.200 – -0.008 | 2897.320 | -2.116 | **0.034** |
| Social Norms\*Personal Distress | 0.000 | -0.076 – 0.076 | 2798.323 | 0.011 | 0.991 |
| Authority\*Personal Distress | 0.039 | -0.043 – 0.121 | 2803.694 | 0.929 | 0.353 |
| Loyalty\*Personal Distress | 0.123 | 0.039 – 0.207 | 2825.560 | 2.871 | **0.004** |
| Purity\*Personal Distress | -0.011 | -0.097 – 0.076 | 2849.762 | -0.249 | 0.804 |
| Harm-Emo\*Personal Distress | 0.022 | -0.057 – 0.101 | 2800.089 | 0.545 | 0.586 |
| Harm-Phys\*Personal Distress | -0.110 | -0.188 – -0.033 | 2794.081 | -2.803 | **0.005** |
| Fairness\*Personal Distress | -0.019 | -0.097 – 0.059 | 2796.689 | -0.474 | 0.635 |
| Social Norms\*Empathic Concern | 0.072 | 0.001 – 0.142 | 2809.571 | 1.987 | **0.047** |
| Authority\*Empathic Concern | 0.006 | -0.063 – 0.074 | 2787.491 | 0.166 | 0.868 |
| Loyalty\*Empathic Concern | 0.030 | -0.041 – 0.100 | 2795.885 | 0.824 | 0.410 |
| Purity\*Empathic Concern | -0.018 | -0.089 – 0.053 | 2817.383 | -0.495 | 0.620 |
| Harm-Emo\*Empathic Concern | 0.061 | -0.009 – 0.131 | 2789.108 | 1.702 | 0.089 |
| Harm-Phys\*Empathic Concern | -0.088 | -0.161 – -0.016 | 2835.066 | -2.388 | **0.017** |
| Fairness\*Empathic Concern | -0.032 | -0.100 – 0.036 | 2792.017 | -0.922 | 0.357 |
| Social Norms\*Perspective Taking | 0.053 | -0.026 – 0.131 | 2799.999 | 1.310 | 0.190 |
| Authority\*Perspective Taking | -0.102 | -0.183 – -0.022 | 2794.589 | -2.494 | **0.013** |
| Loyalty\*Perspective Taking | -0.054 | -0.137 – 0.030 | 2813.254 | -1.252 | 0.211 |
| Purity\*Perspective Taking | -0.022 | -0.104 – 0.060 | 2816.200 | -0.528 | 0.598 |
| Harm-Emo\*Perspective Taking | 0.004 | -0.077 – 0.085 | 2802.626 | 0.089 | 0.929 |
| Harm-Phys\*Perspective Taking | 0.143 | 0.065 – 0.221 | 2793.368 | 3.591 | **<0.001** |
| Fairness\*Perspective Taking | -0.033 | -0.112 – 0.047 | 2802.418 | -0.804 | 0.422 |
| Social Norms\*Fantasy | -0.028 | -0.101 – 0.045 | 2797.857 | -0.743 | 0.457 |
| Authority\*Fantasy | 0.045 | -0.028 – 0.118 | 2787.621 | 1.200 | 0.230 |
| Loyalty\*Fantasy | 0.056 | -0.019 – 0.131 | 2789.768 | 1.463 | 0.143 |
| Purity\*Fantasy | 0.037 | -0.036 – 0.109 | 2797.352 | 0.994 | 0.320 |
| Harm-Emo\*Fantasy | -0.090 | -0.169 – -0.011 | 2801.660 | -2.245 | **0.025** |
| Harm-Phys\*Fantasy | -0.039 | -0.113 – 0.036 | 2795.550 | -1.019 | 0.308 |
| Fairness\*Fantasy | 0.016 | -0.058 – 0.091 | 2795.001 | 0.429 | 0.668 |
| **Random Effects** | | | | | |
| Residual variance | 0.48 | | | | |
| Vignette (intercept) variance | 0.05 | | | | |
| Participant (intercept) variance | 0.06 | | | | |
| NParticipant | 26 | | | | |
| Nvignette | 120 | | | | |
| Observations | 3006 | | | | |
| **Model Performance** |  | | | | |
| Marginal R2 / Conditional R2 | 0.448 / 0.549 | | | | |
| ICC | 0.18 | | | | |
| RMSE | 0.67 | | | | |