|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model formula: | moral judgment ~ anger\*foundation +  amusement\*foundation +  sadness\*foundation +  disgust\*foundation +  fear\*foundation +contempt\*foundation +  Personal Distress Score\*foundation +  Empathic Concern Score\*foundation   + (1|Participant) + (1|Vignette) | | | | |
|  | **moral judgment** | | | | |
| *Factors* | *Estimates* | *CI (95%)* | *df* | *t value* | *p value* |
| Intercept | 2.406 | 2.292 – 2.521 | 35.280 | 41.176 | **<0.001** |
| Social Norms | -0.987 | -1.208 – -0.765 | 944.570 | -8.732 | **<0.001** |
| Authority | -0.068 | -0.201 – 0.065 | 154.612 | -0.998 | 0.320 |
| Loyalty | -0.103 | -0.237 – 0.031 | 158.270 | -1.504 | 0.134 |
| Purity | 0.016 | -0.152 – 0.184 | 344.203 | 0.184 | 0.854 |
| Harm-Emo | 0.181 | 0.047 – 0.315 | 159.088 | 2.651 | **0.009** |
| Harm-Phys | 0.509 | 0.379 – 0.640 | 141.633 | 7.659 | **<0.001** |
| Fairness | 0.342 | 0.207 – 0.478 | 166.618 | 4.945 | **<0.001** |
| Anger | 0.123 | 0.070 – 0.176 | 2914.544 | 4.552 | **<0.001** |
| Amusement | -0.100 | -0.135 – -0.065 | 2897.673 | -5.570 | **<0.001** |
| Sadness | 0.044 | 0.003 – 0.085 | 2920.565 | 2.095 | **0.036** |
| Fear | -0.009 | -0.055 – 0.037 | 2837.603 | -0.376 | 0.707 |
| Contempt | 0.074 | 0.026 – 0.122 | 2828.591 | 3.014 | **0.003** |
| Disgust | 0.159 | 0.111 – 0.206 | 2914.969 | 6.555 | **<0.001** |
| Personal Distress | 0.025 | -0.078 – 0.128 | 23.104 | 0.474 | 0.640 |
| Empathic Concern | 0.018 | -0.085 – 0.121 | 22.760 | 0.344 | 0.734 |
| Social Norms\*Anger | -0.108 | -0.366 – 0.151 | 2907.422 | -0.816 | 0.414 |
| Authority\*Anger | 0.114 | -0.005 – 0.234 | 2855.537 | 1.882 | 0.060 |
| Loyalty\*Anger | -0.069 | -0.196 – 0.058 | 2900.498 | -1.062 | 0.289 |
| Purity\*Anger | -0.055 | -0.157 – 0.047 | 2914.078 | -1.061 | 0.289 |
| Harm-Emo\*Anger | 0.032 | -0.079 – 0.144 | 2878.009 | 0.572 | 0.567 |
| Harm-Phys\*Anger | -0.082 | -0.186 – 0.022 | 2876.830 | -1.544 | 0.123 |
| Fairness\*Anger | 0.025 | -0.074 – 0.124 | 2916.378 | 0.489 | 0.625 |
| Social Norms\*Amusement | 0.019 | -0.046 – 0.084 | 2922.662 | 0.573 | 0.567 |
| Authority\*Amusement | 0.064 | -0.022 – 0.151 | 2871.201 | 1.462 | 0.144 |
| Loyalty\*Amusement | 0.043 | -0.032 – 0.119 | 2881.295 | 1.130 | 0.259 |
| Purity\*Amusement | -0.033 | -0.108 – 0.043 | 2900.845 | -0.847 | 0.397 |
| Harm-Emo\*Amusement | -0.051 | -0.144 – 0.041 | 2914.806 | -1.090 | 0.276 |
| Harm-Phys\*Amusement | 0.130 | 0.051 – 0.208 | 2903.478 | 3.240 | **0.001** |
| Fairness\*Amusement | -0.045 | -0.151 – 0.061 | 2913.704 | -0.830 | 0.406 |
| Social Norms\*Sadness | 0.004 | -0.127 – 0.136 | 2921.916 | 0.064 | 0.949 |
| Authority\*Sadness | 0.037 | -0.080 – 0.154 | 2894.149 | 0.615 | 0.538 |
| Loyalty\*Sadness | -0.120 | -0.217 – -0.023 | 2896.818 | -2.419 | **0.016** |
| Purity\*Sadness | 0.001 | -0.081 – 0.083 | 2868.437 | 0.025 | 0.980 |
| Harm-Emo\*Sadness | -0.038 | -0.118 – 0.042 | 2878.266 | -0.938 | 0.349 |
| Harm-Phys\*Sadness | 0.010 | -0.078 – 0.098 | 2881.177 | 0.232 | 0.816 |
| Fairness\*Sadness | 0.128 | 0.015 – 0.241 | 2913.881 | 2.218 | **0.027** |
| Social Norms\*Fear | -0.050 | -0.201 – 0.102 | 2904.955 | -0.643 | 0.520 |
| Authority\*Fear | -0.156 | -0.276 – -0.036 | 2847.515 | -2.547 | **0.011** |
| Loyalty\*Fear | 0.055 | -0.060 – 0.170 | 2839.453 | 0.941 | 0.347 |
| Purity\*Fear | 0.028 | -0.045 – 0.101 | 2886.728 | 0.743 | 0.458 |
| Harm-Emo\*Fear | -0.035 | -0.147 – 0.077 | 2866.749 | -0.607 | 0.544 |
| Harm-Phys\*Fear | 0.002 | -0.068 – 0.072 | 2868.458 | 0.054 | 0.957 |
| Fairness\*Fear | 0.063 | -0.059 – 0.184 | 2868.421 | 1.013 | 0.311 |
| Social Norms\*Contempt | 0.070 | -0.150 – 0.290 | 2862.895 | 0.622 | 0.534 |
| Authority\*Contempt | -0.029 | -0.131 – 0.073 | 2843.514 | -0.558 | 0.577 |
| Loyalty\*Contempt | 0.048 | -0.053 – 0.150 | 2858.631 | 0.931 | 0.352 |
| Purity\*Contempt | -0.016 | -0.101 – 0.070 | 2848.358 | -0.357 | 0.721 |
| Harm-Emo\*Contempt | -0.011 | -0.100 – 0.077 | 2847.949 | -0.254 | 0.800 |
| Harm-Phys\*Contempt | -0.110 | -0.196 – -0.024 | 2839.374 | -2.504 | **0.012** |
| Fairness\*Contempt | -0.015 | -0.096 – 0.067 | 2840.000 | -0.357 | 0.721 |
| Social Norms\*Disgust | -0.106 | -0.268 – 0.057 | 2525.720 | -1.271 | 0.204 |
| Authority\*Disgust | -0.061 | -0.190 – 0.067 | 2874.232 | -0.937 | 0.349 |
| Loyalty\*Disgust | 0.082 | -0.045 – 0.210 | 2881.884 | 1.263 | 0.207 |
| Purity\*Disgust | 0.391 | 0.287 – 0.494 | 2840.986 | 7.405 | **<0.001** |
| Harm-Emo\*Disgust | 0.044 | -0.058 – 0.146 | 2880.556 | 0.849 | 0.396 |
| Harm-Phys\*Disgust | -0.116 | -0.214 – -0.018 | 2910.410 | -2.329 | **0.020** |
| Fairness\*Disgust | -0.111 | -0.205 – -0.016 | 2911.992 | -2.288 | **0.022** |
| Social Norms\*Personal Distress | 0.022 | -0.046 – 0.090 | 2808.382 | 0.637 | 0.524 |
| Authority\*Personal Distress | -0.004 | -0.076 – 0.068 | 2810.917 | -0.104 | 0.917 |
| Loyalty\*Personal Distress | 0.109 | 0.036 – 0.183 | 2821.195 | 2.910 | **0.004** |
| Purity\*Personal Distress | -0.016 | -0.088 – 0.057 | 2833.173 | -0.420 | 0.675 |
| Harm-Emo\*Personal Distress | 0.009 | -0.060 – 0.079 | 2805.515 | 0.264 | 0.791 |
| Care-Phys\*Personal Distress | -0.055 | -0.125 – 0.015 | 2805.307 | -1.552 | 0.121 |
| Fairness\*Personal Distress | -0.030 | -0.099 – 0.039 | 2803.903 | -0.841 | 0.400 |
| Social Norms\*Empathic Concern | 0.072 | 0.003 – 0.141 | 2826.209 | 2.036 | **0.042** |
| Authority\*Empathic Concern | 0.002 | -0.064 – 0.068 | 2801.345 | 0.052 | 0.959 |
| Loyalty\*Empathic Concern | 0.039 | -0.029 – 0.107 | 2809.794 | 1.134 | 0.257 |
| Purity\*Empathic Concern | -0.011 | -0.079 – 0.057 | 2824.890 | -0.314 | 0.753 |
| Care-Emo\*Empathic Concern | 0.036 | -0.031 – 0.102 | 2800.695 | 1.055 | 0.292 |
| Care-Phys\*Empathic Concern | -0.079 | -0.150 – -0.009 | 2847.755 | -2.196 | **0.028** |
| Fairness\*Empathic Concern | -0.031 | -0.097 – 0.035 | 2805.726 | -0.927 | 0.354 |
| **Random Effects** | | | | | |
| Residual variance | 0.48 | | | | |
| Vignette (intercept) variance | 0.05 | | | | |
| Participant (intercept) variance | 0.07 | | | | |
| N subID | 26 | | | | |
| N vigfile | 120 | | | | |
| Observations | 3006 | | | | |
| **Model performance** |  | | | | |
| Marginal R2 / Conditional R2 | 0.432 / 0.540 | | | | |
| ICC | 0.19 | | | | |
| RMSE | 0.672 | | | | |