

## SUPPLEMENTARY INFORMATION

### ***Deus ex Machina: The COVID-19 Pandemic and Young Adults' Religiosity, Temporal Values, and Time Spatialization Across Cultures***

**Table S1**

*Percentage of People Aged 16 to 29 Responding to the Question About the Importance of Religion in Life From World Values Survey Data*

|                      | Total | Bosnia | China | Moroc. | Spain | Turkey | U.S  |
|----------------------|-------|--------|-------|--------|-------|--------|------|
| Very important       | 33.7  | 34.6   | 2.8   | 86.7   | 13.9  | 55.3   | 29.9 |
| Rather important     | 24.3  | 37.4   | 8.4   | 10.6   | 14.9  | 32     | 23.1 |
| Not very important   | 23.2  | 18.3   | 42.7  | 2.2    | 33.8  | 11.4   | 23.3 |
| Not at all important | 17.8  | 8.8    | 45.3  | 0.5    | 37.4  | 0.8    | 22.7 |
| Don't know           | 0.2   | 0.5    | 0     | 0      | 0     | 0      | 0    |
| No answer            | 0.8   | 0.4    | 0.8   | 0      | 0     | 0.4    | 1    |
| (N) 16-29 years      | 3414  | 351    | 679   | 407    | 198   | 712    | 554  |

*Note.* Data extracted from the World Values Survey Wave 7 Database (<https://www.worldvaluessurvey.org/WVSOnline.jsp>). Based on these data we calculated the average importance of religion in life for each country following this formula:  $(3 \times \% \text{Very Important} + 2 \times \% \text{Rather Important} + 1 \times \% \text{Not at all Important}) / 100$ . The results indicated that the average 'Importance of religion in life' in each country on a scale from 1 (Not at all important) to 3 (Very important) are as follows: Bosnia Herzegovina: 1.874, China: 0.705, Morocco: 2.818, Spain: 1.089, Turkey: 2.307, United States: 1.586.

**Table S2**

*Results of the Question on the Level of Agreement With The Statement “We Depend Too Much On Science And Not Enough On Faith.” From World Values Survey Data*

| <b>Country</b> | <b>Mean</b> | <b>SD</b> | <b>N</b> |
|----------------|-------------|-----------|----------|
| China          | 5.42        | 2.61      | 674      |
| Morocco        | 6.25        | 2.73      | 407      |
| Turkey         | 5.44        | 2.46      | 678      |
| United States  | 4.6         | 2.87      | 542      |

*Note.* Data extracted from the World Values Survey Wave 7 Database (<https://www.worldvaluessurvey.org/WVSOnline.jsp>).

**Table S3**

*Matched Participants Fitting Cultural Group Variables and Demographic Information, in the Samples Collected Before and During the COVID-19 Pandemic Both Overall and Across Cultural Groups*

| <b>Cultural group</b> | <b>Time</b> | <b>N</b> | <b>Cultural identity<sup>a</sup></b> | <b>Country birth<sup>a</sup></b> | <b>Country residen.<sup>a</sup></b> | <b>First lang.<sup>a</sup></b> | <b>Age</b> | <b>Fem.</b> |
|-----------------------|-------------|----------|--------------------------------------|----------------------------------|-------------------------------------|--------------------------------|------------|-------------|
| <b>Bosniaks</b>       | Pre         | 21       | 100%<br>(4 NA)                       | 100%                             | 100%                                | 100%                           | 22.48      | 86%         |
|                       | Dur.        | 21       | 100%<br>(2 NA)                       | 100%                             | 95%                                 | 100%                           | 22.48      | 90%         |
| <b>Chinese</b>        | Pre         | 87       | 100%<br>(5 NA)                       | 100%                             | 100%                                | 100%<br>(1 NA)                 | 19.26      | 90%         |
|                       | Dur.        | 87       | 100%                                 | 100%                             | 100%                                | 100%<br>(1 NA)                 | 19.41      | 82%         |
| <b>Croats</b>         | Pre         | 48       | 98%<br>(2 NA)                        | 96%                              | 100%                                | 100%                           | 21.48      | 71%         |
|                       | Dur.        | 48       | 100%                                 | 96%<br>(1 NA)                    | 100%                                | 100%                           | 21.90      | 76%         |
| <b>Morocc.</b>        | Pre         | 22       | 100%<br>(4 NA)                       | 100%                             | 100%                                | 100%                           | 22.64      | 74%         |
|                       | Dur.        | 22       | 100%<br>(1 NA)                       | 100%                             | 95%<br>(1 NA)                       | 100%                           | 22.86      | 86%         |
| <b>Serbs</b>          | Pre         | 63       | 100%<br>(8 NA)                       | 100%                             | 100%                                | 100%                           | 21.56      | 73%         |
|                       | Dur.        | 63       | 100%<br>(2 NA)                       | 97%<br>(1 NA)                    | 100%                                | 100%<br>(1 NA)                 | 21.83      | 94%         |
| <b>Spania.</b>        | Pre         | 175      | 95%                                  | 93%                              | 99%                                 | 99%                            | 20.85      | 87%         |
|                       | Dur.        | 175      | 98%<br>(1 NA)                        | 97%                              | 100%                                | 99%                            | 20.86      | 87%         |
| <b>Turks</b>          | Pre         | 35       | 100%<br>(3 NA)                       | 100%                             | 100%                                | 100%                           | 22.00      | 70%         |
|                       | Dur.        | 35       | 100%<br>(1 NA)                       | 100%                             | 100%                                | 100%                           | 22.23      | 77%         |
| <b>U.S. Am.</b>       | Pre         | 46       | 98%<br>(3 NA)                        | 91%                              | 100%                                | 100%                           | 21.00      | 91%         |
|                       | Dur.        | 46       | 100%<br>(6 NA)                       | 98%                              | 100%                                | 98%                            | 21.00      | 91%         |
| <b>Total</b>          | Pre         | 497      | 98%<br>(29 NA)                       | 96%<br>(1 NA)                    | 100%                                | 100%<br>(1 NA)                 | 20.96      | 82%         |
|                       | Dur.        | 497      | 99%<br>(13 NA)                       | 98%<br>(2 NA)                    | 100%<br>(1 NA)                      | 100%<br>(2 NA)                 | 21.09      | 86%         |

*Note.* Pre = sample collected before the pandemic; Dur. = sample collected during the pandemic.

<sup>a</sup>Percentage of participants fitting the cultural identity, country, or official language of their respective cultural group.

The percentages are shown as rounded.

**Table S4**

*Participants Matched for the Temporal Diagram Task From Samples Collected Before and During the Covid-19 Pandemic in the Following Variables: Culture, Age, Sex, Education, and Handedness*

| <b><i>Culture</i></b> | <b><i>Time</i></b> | <b><i>N</i></b> | <b><i>M age</i></b> | <b><i>Female</i></b> | <b><i>Right</i></b> |
|-----------------------|--------------------|-----------------|---------------------|----------------------|---------------------|
| <i>Bosniaks</i>       | <i>Pre</i>         | 21              | 21.38               | 81%                  | 100%                |
|                       | <i>During</i>      | 21              | 21.33               | 86%                  | 100%                |
| <i>Chinese</i>        | <i>Pre</i>         | 90              | 19.26               | 90%                  | 96%                 |
|                       | <i>During</i>      | 90              | 19.33               | 91%                  | 99%                 |
| <i>Croats</i>         | <i>Pre</i>         | 57              | 21.39               | 75%                  | 89%                 |
|                       | <i>During</i>      | 57              | 21.97               | 86%                  | 95%                 |
| <i>Moroccans</i>      | <i>Pre</i>         | 40              | 23.53               | 63%                  | 95%                 |
|                       | <i>During</i>      | 40              | 23.73               | 78%                  | 92%                 |
| <i>Serbs</i>          | <i>Pre</i>         | 79              | 21.91               | 67%                  | 89%                 |
|                       | <i>During</i>      | 79              | 22.2                | 95%                  | 90%                 |
| <i>Spaniards</i>      | <i>Pre</i>         | 175             | 20.85               | 87%                  | 91%                 |
|                       | <i>During</i>      | 175             | 20.85               | 87%                  | 94%                 |
| <i>Turks</i>          | <i>Pre</i>         | 35              | 22                  | 69%                  | 97%                 |
|                       | <i>During</i>      | 35              | 22.17               | 77%                  | 89%                 |
| <i>U.S. Americans</i> | <i>Pre</i>         | 46              | 21                  | 91%                  | 96%                 |
|                       | <i>During</i>      | 46              | 21                  | 91%                  | 96%                 |
| <b><i>TOTAL</i></b>   | <i>Pre</i>         | 543             | 22.14               | 95%                  | 90%                 |
|                       | <i>During</i>      | 543             | 21.1                | 81%                  | 93%                 |

*Note.* Pre = sample collected before the pandemic; During = sample collected during the pandemic.

**Table S5**

*Mann-Whitney Independent Samples Test for the Overall Samples Collected During Versus Before the COVID-19 Pandemic in the Whole Set of Religiosity and Values Temporal Focus Subscales*

|                          | W        | p      | Rank-Biserial<br>Correlation | 95% CI for Rank-<br>Biserial Correlation |        |
|--------------------------|----------|--------|------------------------------|------------------------------------------|--------|
|                          |          |        |                              | Lower                                    | Upper  |
| Religiosity<br>Belief    | 102875.0 | < .001 | -0.167                       | -0.236                                   | -0.096 |
| Religiosity<br>Practice  | 93000.0  | < .001 | -0.247                       | -0.313                                   | -0.178 |
| Religiosity<br>Knowledge | 96782.5  | < .001 | -0.216                       | -0.284                                   | -0.147 |
| Religiosity<br>Index     | 94519.5  | < .001 | -0.235                       | -0.301                                   | -0.166 |
| VTF Past                 | 87928.50 | <.001  | -0.288                       | -0.352                                   | -0.221 |
| VTF Future               | 145673.0 | <.001  | 0.179                        | 0.109                                    | 0.248  |
| VTFI                     | 160941.5 | < .001 | 0.303                        | 0.237                                    | 0.367  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S6**

*Medians of, Religiosity Belief, Religiosity Practice, Religiosity Knowledge, Religiosity Index, Value Temporal Focus Future, Value Temporal Focus Past, and Value Temporal Focus Index in each cultural group*

| <b>Culture<sup>a</sup></b> | <b>Condition</b> | <b>Relig.<br/>Belief</b> | <b>Relig.<br/>Pract.</b> | <b>Relig.<br/>Knowl.</b> | <b>Relig.<br/>Index</b> | <b>VTF<br/>Future</b> | <b>VTF<br/>Past</b> | <b>VTF<br/>Index</b> |
|----------------------------|------------------|--------------------------|--------------------------|--------------------------|-------------------------|-----------------------|---------------------|----------------------|
| Moroccans                  | Pre              | 4.78                     | 3.92                     | 4.33                     | 4.36                    | 3.30                  | 3.80                | -0.06                |
|                            | During           | 4.90                     | 3.93                     | 5.00                     | 4.45                    | 3.45                  | 3.55                | 0.00                 |
| Croats                     | Pre              | 4.68                     | 3.74                     | 4.20                     | 4.32                    | 3.20                  | 3.60                | -0.04                |
|                            | During           | 4.50                     | 3.21                     | 4.00                     | 3.97                    | 3.15                  | 3.10                | 0.01                 |
| Bosniaks                   | Pre              | 4.84                     | 3.97                     | 4.73                     | 4.41                    | 3.20                  | 3.60                | -0.05                |
|                            | During           | 3.20                     | 3.29                     | 3.33                     | 3.34                    | 3.40                  | 2.60                | 0.06                 |
| Serbs                      | Pre              | 4.04                     | 3.51                     | 4.47                     | 4.10                    | 3.00                  | 3.80                | -0.1                 |
|                            | During           | 3.40                     | 2.71                     | 3.67                     | 3.31                    | 3.40                  | 3.10                | 0.08                 |
| Americans                  | Pre              | 3.60                     | 3.06                     | 4.17                     | 3.66                    | 3.03                  | 3.17                | -0.02                |
|                            | During           | 3.50                     | 2.43                     | 3.33                     | 2.94                    | 3.40                  | 2.45                | 0.14                 |
| Turks                      | Pre              | 3.00                     | 2.43                     | 2.67                     | 2.67                    | 3.28                  | 2.72                | 0.05                 |
|                            | During           | 2.20                     | 1.57                     | 1.67                     | 1.88                    | 3.60                  | 2.10                | 0.28                 |
| Spaniards                  | Pre              | 2.20                     | 1.86                     | 3.00                     | 2.33                    | 3.30                  | 2.70                | 0.08                 |
|                            | During           | 1.60                     | 1.29                     | 2.33                     | 1.67                    | 3.40                  | 2.40                | 0.15                 |
| Chinese                    | Pre              | 1.60                     | 2.14                     | 2.00                     | 1.82                    | 3.20                  | 2.80                | 0.05                 |
|                            | During           | 1.60                     | 1.86                     | 1.00                     | 1.57                    | 3.20                  | 2.70                | 0.06                 |
| All                        | Pre              | 2.80                     | 2.57                     | 3.33                     | 2.85                    | 3.20                  | 3.00                | 0.03                 |
|                            | During           | 2.20                     | 1.86                     | 2.67                     | 2.26                    | 3.30                  | 2.60                | 0.11                 |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus; Pre = sample collected before the pandemic; During = sample collected during the pandemic.

**Table S7**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference of Samples Collected During Versus Before COVID-19 in Moroccans*

|                 | <i>W</i> | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-Biserial<br>Correlation |       |
|-----------------|----------|----------|------------------------------|-----------------------------------------|-------|
|                 |          |          |                              | Lower                                   | Upper |
| Relig. Belief   | 269.000  | 0.510    | 0.112                        | -0.229                                  | 0.428 |
| Relig. Practice | 196.000  | 0.285    | -0.190                       | -0.491                                  | 0.151 |
| Relig. Knowled. | 305.500  | 0.122    | 0.262                        | -0.076                                  | 0.547 |
| Relig. Index    | 249.000  | 0.879    | 0.029                        | -0.306                                  | 0.357 |
| VTF Past        | 170.500  | 0.095    | -0.295                       | -0.571                                  | 0.040 |
| VTF Future      | 261.500  | 0.655    | 0.081                        | -0.258                                  | 0.402 |
| VTF Index       | 295.500  | 0.213    | 0.221                        | -0.120                                  | 0.515 |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S8**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference of Samples Collected During Versus Before COVID-19 in Croats*

|                 | <i>W</i> | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-<br>Biserial Correlation |        |
|-----------------|----------|----------|------------------------------|------------------------------------------|--------|
|                 |          |          |                              | Lower                                    | Upper  |
| Relig. Belief   | 932.000  | 0.105    | -0.191                       | -0.402                                   | 0.039  |
| Relig. Practice | 798.500  | 0.010    | -0.307                       | -0.500                                   | -0.085 |
| Relig. Knowled. | 981.500  | 0.207    | -0.148                       | -0.364                                   | 0.083  |
| Relig. Index    | 858.000  | 0.032    | -0.255                       | -0.457                                   | -0.029 |
| VTF Past        | 760.500  | 0.004    | -0.340                       | -0.527                                   | -0.121 |
| VTF Future      | 1066.000 | 0.530    | -0.075                       | -0.298                                   | 0.156  |
| VTF Index       | 1351.500 | 0.145    | 0.173                        | -0.057                                   | 0.386  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S9**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference of Samples Collected During Versus Before COVID-19 in Bosniaks*

|                 | <i>W</i> | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-Biserial<br>Correlation |        |
|-----------------|----------|----------|------------------------------|-----------------------------------------|--------|
|                 |          |          |                              | Lower                                   | Upper  |
| Relig. Belief   | 113.500  | 0.007    | -0.485                       | -0.708                                  | -0.175 |
| Relig. Practice | 130.000  | 0.023    | -0.410                       | -0.658                                  | -0.083 |
| Relig. Knowled. | 76.000   | < .001   | -0.655                       | -0.814                                  | -0.406 |
| Relig. Index    | 102.000  | 0.002    | -0.537                       | -0.742                                  | -0.242 |
| VTF Past        | 114.000  | 0.008    | -0.483                       | -0.707                                  | -0.172 |
| VTF Future      | 291.500  | 0.074    | 0.322                        | -0.019                                  | 0.596  |
| VTF Index       | 339.000  | 0.003    | 0.537                        | 0.242                                   | 0.742  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S10**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference Before Versus During COVID-19 in Serbs*

|                 | <i>W</i> | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-<br>Biserial Correlation |        |
|-----------------|----------|----------|------------------------------|------------------------------------------|--------|
|                 |          |          |                              | Lower                                    | Upper  |
| Relig. Belief   | 1372.500 | 0.003    | -0.308                       | -0.479                                   | -0.116 |
| Relig. Practice | 1208.500 | < .001   | -0.391                       | -0.548                                   | -0.208 |
| Relig. Knowled. | 1190.500 | < .001   | -0.400                       | -0.555                                   | -0.218 |
| Relig. Index    | 1122.500 | < .001   | -0.434                       | -0.583                                   | -0.257 |
| VTF Past        | 1019.500 | < .001   | -0.486                       | -0.625                                   | -0.317 |
| VTF Future      | 2867.500 | < .001   | 0.445                        | 0.269                                    | 0.592  |
| VTF Index       | 3139.500 | < .001   | 0.582                        | 0.433                                    | 0.700  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S11**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference of Samples Collected During Versus Before COVID-19 in U.S. Americans*

|                 | <i>W</i> | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-<br>Biserial Correlation |        |
|-----------------|----------|----------|------------------------------|------------------------------------------|--------|
|                 |          |          |                              | Lower                                    | Upper  |
| Relig. Belief   | 729.000  | 0.010    | -0.311                       | -0.507                                   | -0.084 |
| Relig. Practice | 795.500  | 0.041    | -0.248                       | -0.455                                   | -0.016 |
| Relig. Knowled. | 739.500  | 0.012    | -0.301                       | -0.499                                   | -0.073 |
| Relig. Index    | 720.000  | 0.008    | -0.319                       | -0.514                                   | -0.094 |
| VTF Past        | 509.000  | < .001   | -0.519                       | -0.671                                   | -0.325 |
| VTF Future      | 1532.000 | < .001   | 0.448                        | 0.240                                    | 0.617  |
| VTF Index       | 1705.000 | < .001   | 0.612                        | 0.442                                    | 0.739  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S12**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference of Samples Collected During Versus Before COVID-19 in Turks*

|                 | <i>W</i> | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-Biserial<br>Correlation |        |
|-----------------|----------|----------|------------------------------|-----------------------------------------|--------|
|                 |          |          |                              | Lower                                   | Upper  |
| Relig. Belief   | 518.50   | 0.27     | -0.153                       | -0.403                                  | 0.117  |
| Relig. Practice | 382.00   | 0.00     | -0.376                       | -0.584                                  | -0.123 |
| Relig. Knowled. | 454.50   | 0.06     | -0.258                       | -0.490                                  | 0.009  |
| Relig. Index    | 444.50   | 0.04     | -0.274                       | -0.503                                  | -0.009 |
| VTF Past        | 371.50   | 0.00     | -0.393                       | -0.597                                  | -0.142 |
| VTF Future      | 866.00   | 0.00     | 0.414                        | 0.166                                   | 0.612  |
| VTF Index       | 898.00   | < .00    | 0.466                        | 0.229                                   | 0.651  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S13**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference of Samples Collected During Versus Before COVID-19 in Spaniards*

|                 | <i>W</i>  | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-Biserial<br>Correlation |        |
|-----------------|-----------|----------|------------------------------|-----------------------------------------|--------|
|                 |           |          |                              | Lower                                   | Upper  |
| Relig. Belief   | 11188.000 | < .001   | -0.269                       | -0.378                                  | -0.154 |
| Relig. Practice | 11221.500 | < .001   | -0.267                       | -0.376                                  | -0.151 |
| Relig. Knowled. | 11620.500 | < .001   | -0.241                       | -0.351                                  | -0.124 |
| Relig. Index    | 10641.000 | < .001   | -0.305                       | -0.411                                  | -0.192 |
| VTF Past        | 11453.000 | < .001   | -0.252                       | -0.362                                  | -0.136 |
| VTF Future      | 16860.000 | 0.101    | 0.101                        | -0.020                                  | 0.219  |
| VTF Index       | 18800.500 | < .001   | 0.228                        | 0.110                                   | 0.339  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S14**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference of Samples Collected During Versus Before COVID-19 in Chinese*

|                 | <i>W</i> | <i>p</i> | Rank-Biserial<br>Correlation | 95% CI for Rank-Biserial<br>Correlation |        |
|-----------------|----------|----------|------------------------------|-----------------------------------------|--------|
|                 |          |          |                              | Lower                                   | Upper  |
| Relig. Belief   | 4013.000 | 0.488    | 0.060                        | -0.111                                  | 0.228  |
| Relig. Practice | 2638.000 | < .001   | -0.303                       | -0.450                                  | -0.140 |
| Relig. Knowled. | 2053.000 | < .001   | -0.458                       | -0.583                                  | -0.311 |
| Relig. Index    | 2672.000 | < .001   | -0.294                       | -0.442                                  | -0.130 |
| VTF Past        | 3280.500 | 0.128    | -0.133                       | -0.297                                  | 0.038  |
| VTF Future      | 4026.500 | 0.466    | 0.064                        | -0.108                                  | 0.232  |
| VTF Index       | 4286.500 | 0.131    | 0.133                        | -0.039                                  | 0.296  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the rank biserial correlation.

**Table S15**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference Before Versus During COVID-19 in Participants From Cultures That Before the Pandemic Had a Low Religiosity and Were Future-focused<sup>a</sup>*

|              | <i>W</i>  | <i>p</i> | Rank Biserial Correlation | 95% CI for Rank-Biserial Correlation |        |
|--------------|-----------|----------|---------------------------|--------------------------------------|--------|
|              |           |          |                           | Lower                                | Upper  |
| Relig. Index | 30750.500 | < .001   | -0.303                    | -0.385                               | -0.216 |
| VTF Index    | 54447.000 | < .001   | 0.234                     | 0.145                                | 0.320  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the Rank Biserial correlation.

<sup>a</sup>Participants from cultures with low religiosity and future-focused are Turks, Spaniards, and Chinese participants.

**Table S16**

*Mann-Whitney Independent Samples Test of Religiosity and Value Temporal Focus Indexes for the Difference Before Versus During COVID-19 in Participants From Cultures That Before the Pandemic Were Highly Religious and Past-focused<sup>b</sup>*

|              | <i>W</i>  | <i>p</i> | Rank<br>Biserial<br>Correlatio<br>n | 95% CI for Rank-<br>Biserial Correlation |        |
|--------------|-----------|----------|-------------------------------------|------------------------------------------|--------|
|              |           |          |                                     | Lower                                    | Upper  |
| Relig. Index | 8055.500  | < .001   | -0.321                              | -0.431                                   | -0.200 |
| VTF Index    | 16578.000 | < .001   | 0.398                               | 0.284                                    | 0.501  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus.

For the Mann-Whitney test, the effect size is given by the Rank Biserial correlation.

<sup>b</sup>Participants from cultures with high religiosity and past-focused are Moroccans, Bosniaks, Croats, and Serbs.

**Table S17**

*Comparison Between the Effect Sizes of Cultures That Before the Pandemic had a Low Religiosity and Were Future-oriented Versus Those Which Had a High Religiosity and Were Past-oriented in Religiosity and Value Temporal Focus Indexes*

|              | Fisher's Z | p   | 95% CI |       |
|--------------|------------|-----|--------|-------|
|              |            |     | Lower  | Upper |
| Relig. Index | -0.922     | .35 | -1.03  | -0.82 |
| TFIndex      | -1.89      | .06 | -0.33  | 0.01  |

*Note.* Relig. = Religiosity; VTF = Value Temporal Focus. The effect sizes compared (future-oriented vs. past-oriented cultures) are the result of the difference between Before Versus During COVID-19 shown in tables S12 and S13.

**Table S18**

*Odds Ratio of Proportion of Future in Front for the Difference from Cultures That Before the Pandemic Had a Low Religiosity and Were Future-focused Versus Those Which Had a High Religiosity and Were Past-focused*

|                                            | OR   | 95% CI |       |
|--------------------------------------------|------|--------|-------|
|                                            |      | Lower  | Upper |
| More religious and past-focused cultures   | 1.58 | 1.05   | 2.39  |
| Less religious and future-focused cultures | 1.35 | 0.95   | 1.92  |

**Table S19**

*Participants Fitting Cultural Group Variables and Demographic Information, in the Sample  
Collected During the Covid-19 Pandemic Both Overall and Across Cultural Groups*

| <b>Cultural group</b> | <b>N</b> | <b>Cultural identity<sup>a</sup></b> | <b>Country birth<sup>a</sup></b> | <b>Country residen.<sup>a</sup></b> | <b>First lang.<sup>a</sup></b> | <b>Age</b> | <b>Fem.</b>   |
|-----------------------|----------|--------------------------------------|----------------------------------|-------------------------------------|--------------------------------|------------|---------------|
| <b>Bosniaks</b>       | 22       | 95%<br>(2 NA)                        | 95%                              | 100%                                | 100%                           | 21.77      | 86%           |
| <b>Chinese</b>        | 156      | 100%<br>(2 NA)                       | 100%                             | 100%                                | 100%                           | 19.96      | 74%<br>(1 NA) |
| <b>Croats</b>         | 76       | 100%<br>(3 NA)                       | 97%<br>(2 NA)                    | 97%                                 | 100%                           | 22.62      | 79%           |
| <b>Morocc.</b>        | 45       | 100%<br>(3 NA)                       | 100%                             | 95%<br>(2 NA)                       | 100%                           | 23.69      | 76%           |
| <b>Serbs</b>          | 80       | 100%<br>(3 NA)                       | 97%<br>(1 NA)                    | 100%                                | 100%                           | 22.09      | 95%           |
| <b>Spaniards</b>      | 384      | 98%<br>(6 NA)                        | 97%<br>(1 NA)                    | 100%                                | 99%<br>(1 NA)                  | 22.47      | 72%<br>(2 NA) |
| <b>Turks</b>          | 46       | 100%<br>(1 NA)                       | 100%                             | 100%                                | 100%                           | 22.83      | 76%           |
| <b>U.S. Am.</b>       | 84       | 100%<br>(9 NA)                       | 98%                              | 100%                                | 97%                            | 21.12      | 88%<br>(4 NA) |
| <b>Total</b>          | 893      | 99%<br>(29 NA)                       | 98%<br>(4 NA)                    | 100%<br>(2 NA)                      | 100%<br>(1 NA)                 | 21.94      | 77%<br>(7 NA) |

*Note.* <sup>a</sup>Percentage of participants fitting the cultural identity, country or official language of their respective cultural group.

The percentages are shown as rounded.

**Table S20***The COVID-19 Items*

| Item name              | Item and scale                                                                                                                                                                           |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strict Compliance      | Rate how strictly you have followed confinement guidelines, where 1 = Not strictly; 5 = Very strictly.                                                                                   |
| Change Perception      | Indicate how much you think your everyday life has changed during the period of confinement, where 1 = My life has not changed much; 5 = My life has changed a lot.                      |
| Back to Regular Life   | Indicate when you think everyday life will return to a situation similar to before confinement, where 1 = Summer 2020; 2 = Autumn 2020; etc., up to 9 = Other (please justify).          |
| Frequency of Events    | Indicate how much you think the number of activities and events you normally do in a week has changed during the period of confinement, where 1 = Fewer activities; 5 = More activities. |
| Boredom                | Indicate how much more or less bored you have been during confinement compared to before, where 1 = A lot less bored; 5 = Much more bored.                                               |
| Mood                   | In general, how have you felt during the period of confinement? Where 1 = Very bad; 5 = Very good.                                                                                       |
| Concern about COVID-19 | Overall, how concerned are you about the COVID-19 pandemic? Where 1 = Not very concerned; 5 = Very concerned.                                                                            |

**Table S21**

*Principal Component Analysis of the COVID-19 Items Regarding the People's Concern About the Pandemic*

| Component Loadings   | Component    |             | Uniqueness |
|----------------------|--------------|-------------|------------|
|                      | 1            | 2           |            |
| Strict Compliance    | -0.22        | <b>0.70</b> | 0.50       |
| Concern COVID-19     | 0.6          | <b>0.74</b> | 0.42       |
| Back to Regular Life | 0.08         | <b>0.48</b> | 0.74       |
| Change Perception    | <b>0.52</b>  | <b>0.40</b> | 0.54       |
| Mood                 | <b>-0.72</b> | -0.08       | 0.47       |
| Boring               | <b>0.77</b>  | -0.15       | 0.42       |
| Frequency of Events  | <b>-0.49</b> | -0.09       | 0.75       |

*Note.* The 'oblimin' rotation method was used.

**Table S22**

*Median and Shapiro-Wilk p Values of Religiosity Index, Value Temporal Focus Index, COVID-19 personal-affectation Index, COVID-19 social Concern Index, and Overall COVID-19 index in Each Culture in the Whole Collected During the COVID-19 pandemic*

|                | Culture   | Religiosity Index | Value Temporal Focus Index | COVID19 Personal affectation Index | COVID19 Social Concer Index | COVID19 Overall Index |
|----------------|-----------|-------------------|----------------------------|------------------------------------|-----------------------------|-----------------------|
| Median         | Moroccans | 4.43              | -0.01                      | 3.25                               | 3.25                        | 3.29                  |
|                | Croats    | 3.98              | 0.01                       | 2.75                               | 3.00                        | 2.86                  |
|                | Bosniaks  | 2.90              | 0.03                       | 3.00                               | 3.50                        | 3.15                  |
|                | Serbs     | 3.27              | 0.07                       | 3.00                               | 3.00                        | 3.00                  |
|                | Americans | 3.10              | 0.13                       | 3.75                               | 3.75                        | 3.86                  |
|                | Turks     | 2.16              | 0.28                       | 3.25                               | 3.50                        | 3.43                  |
|                | Spaniards | 1.70              | 0.14                       | 3.50                               | 3.75                        | 3.57                  |
|                | Chinese   | 1.59              | 0.07                       | 3.25                               | 3.00                        | 3.21                  |
| Shapiro Wilk p | Moroccans | 0.004             | 0.04                       | 0.17                               | < .001                      | 0.03                  |
|                | Croats    | < .001            | 0.49                       | 0.14                               | 0.16                        | 0.04                  |
|                | Bosniaks  | 0.367             | 0.06                       | 0.20                               | 0.30                        | 0.87                  |
|                | Serbs     | 0.008             | 0.70                       | 0.28                               | 0.38                        | 0.34                  |
|                | Americans | 0.559             | 0.06                       | 0.01                               | 0.21                        | 0.26                  |
|                | Turks     | < .001            | 0.09                       | 0.33                               | 0.01                        | 0.27                  |
|                | Spaniards | < .001            | 0.02                       | < .001                             | < .001                      | 0.033                 |
|                | Chinese   | < .001            | < .001                     | 0.01                               | < .001                      | 0.03                  |

*Note.* P-value results lower than .005 indicate that the sample did not follow the normal distribution.

**Table S23**

*Kendall's Tau-B Correlation Coefficients Between the COVID-19 Overall, Personal, and Social Concern Indexes With the Proportion of Future in Front, and the Personal Temporal Focus Index in the Chinese Young Sample Collected During the COVID-19 Pandemic*

|                                      | <b>Future<br/>in Front</b>                        | <b>Personal Temporal Focus Index</b>             |
|--------------------------------------|---------------------------------------------------|--------------------------------------------------|
| <b>Personal Temporal Focus Index</b> | <i>Tb</i> =0.08, <i>p</i> =.301, <i>N</i> =118    | -----                                            |
| <b>COVID-19 Personal Index</b>       | <i>Tb</i> = .05, <i>p</i> =.458, <i>N</i> = 144   | <i>Tb</i> = .11, <i>p</i> =.108 , <i>N</i> =130  |
| <b>COVID-19 Social Concern Index</b> | <i>Tb</i> =.02, <i>p</i> =.82, <i>N</i> = 144     | <i>Tb</i> = .15, <i>p</i> =0.021 , <i>N</i> =130 |
| <b>COVID-19 Overall Index</b>        | <i>Tb</i> = .00 , <i>p</i> = 0.98, <i>N</i> = 144 | <i>Tb</i> = .11, <i>p</i> =.077 , <i>N</i> = 130 |

**Table S24**

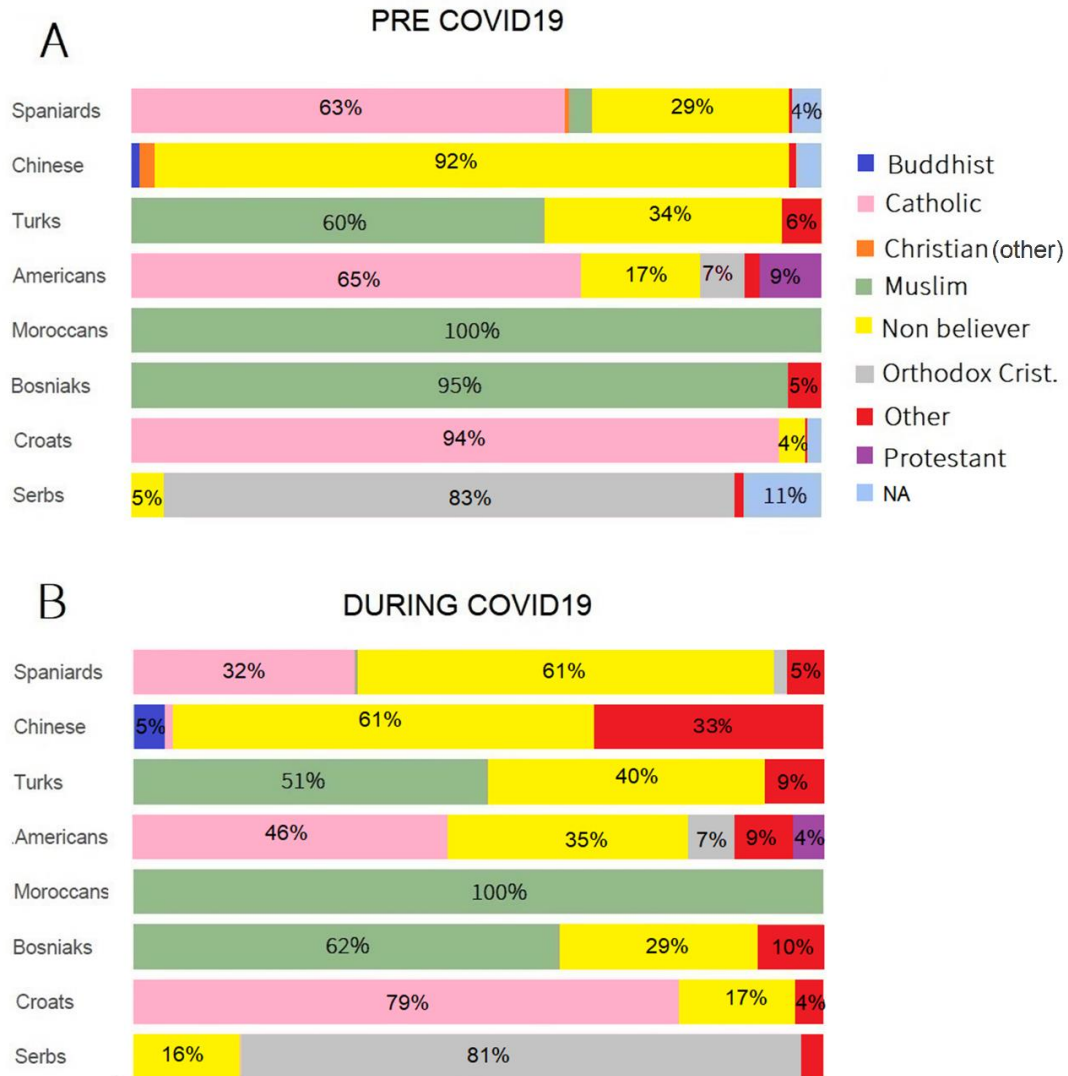
*Kendall's Tau-B Correlation Coefficients Between the COVID-19 Overall, Personal, and Social Concern Indexes With the Proportion of Future in Front, and the Personal Temporal Focus Index in the Overall Young Sample Collected During the COVID-19 Pandemic*

|                                      | <b>Future<br/>in Front</b>             | <b>Personal Temporal Focus Index</b> |
|--------------------------------------|----------------------------------------|--------------------------------------|
| <b>Personal Temporal Focus Index</b> | <i>Tb=0.002, p=.949, N=770</i>         |                                      |
| <b>COVID-19 Personal Index</b>       | <i>Tb= 0.0825, p&lt; 0.001, N= 855</i> | <i>Tb= .038, p=.13 , N=808</i>       |
| <b>COVID-19 Social Concern Index</b> | <i>Tb=0.0509, p=.081, N= 855</i>       | <i>Tb= -.018, p=0.466 , N=808</i>    |
| <b>COVID-19 Overall Index</b>        | <i>Tb= 0.073,p= 0.02, N= 855</i>       | <i>Tb= -.0434, p=.078 , N= 808</i>   |

## Figures

**Figure S1**

*Distribution of Religious Denominations or Religious Positions in Each Culture From the Matched Samples of Participants Collected Before (A) and During the Pandemic (B)*

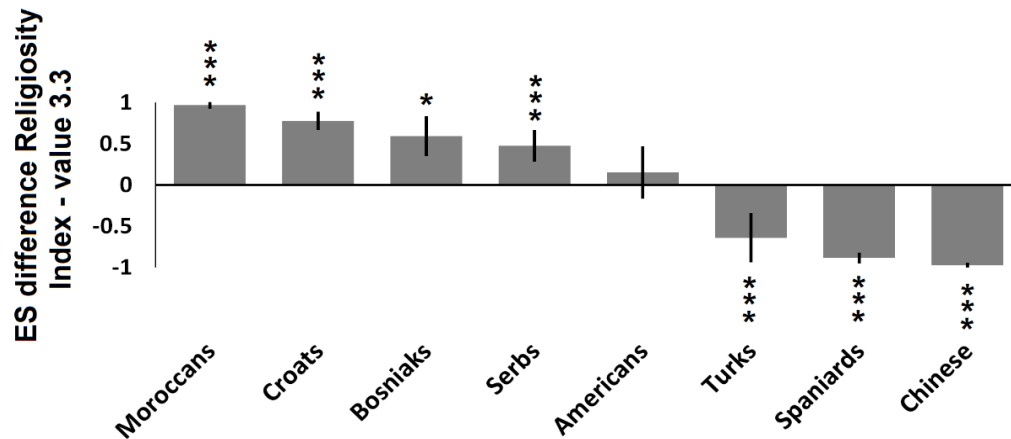


*Note.* All percentages greater than or equal to 4% are shown. The cultures appear ordered (from top to bottom) from the most progressive to the most traditionalist according to data collected before the pandemic.

\*The word ‘Americans’ refers to U.S. Americans.

**Figure S2**

*Effect Size of the Difference between the Religiosity Index with the value 3.3 (Which is the Average of the Religiosity Index of the Overall Pre-pandemic Sample) in Each Culture*



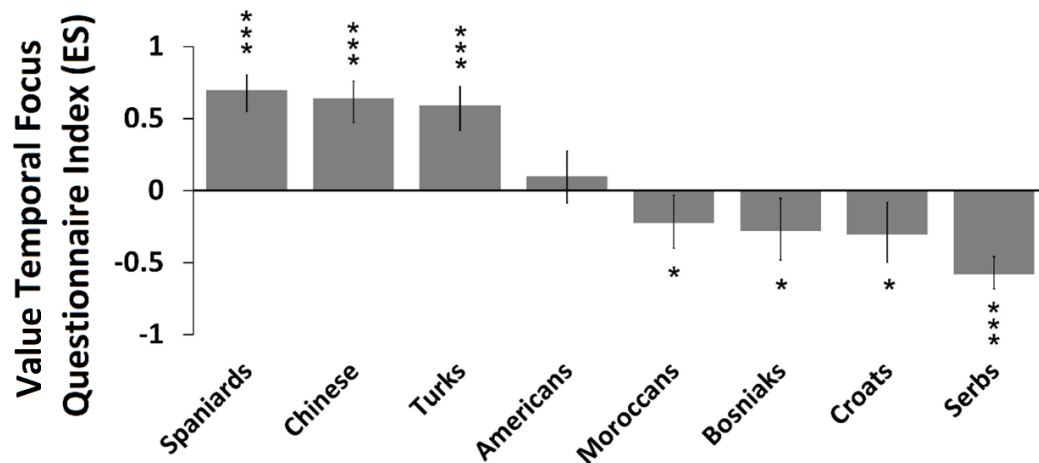
*Note.* Effect sizes are calculated by Rank-Biserial Correlation. The error bars show the 95% Confidence Interval of the effect size. Statistically significant results are marked with asterisks: \*  $p < .05$ , \*\*\*  $p < .001$ .

This plot was computed with data from the entire sample collected before the pandemic and not only with the subsample matched with the sample collected during the pandemic. Sample sizes in each culture are the following: Spaniards ( $N=192$ ), Chinese ( $N=96$ ), Turks ( $N=96$ ), Americans ( $N=158$ ), Moroccans ( $N=138$ ), Bosniaks ( $N=99$ ), Croats ( $N=100$ ), and Serbs ( $N=190$ ).

\*The word ‘Americans’ refers to U.S. Americans.

**Figure S3**

*Effect Size of the Difference between the Asymmetry Index from the Value Temporal Focus Questionnaire with Zero in Each Culture According to the Whole Sample Collected Before the Pandemic*



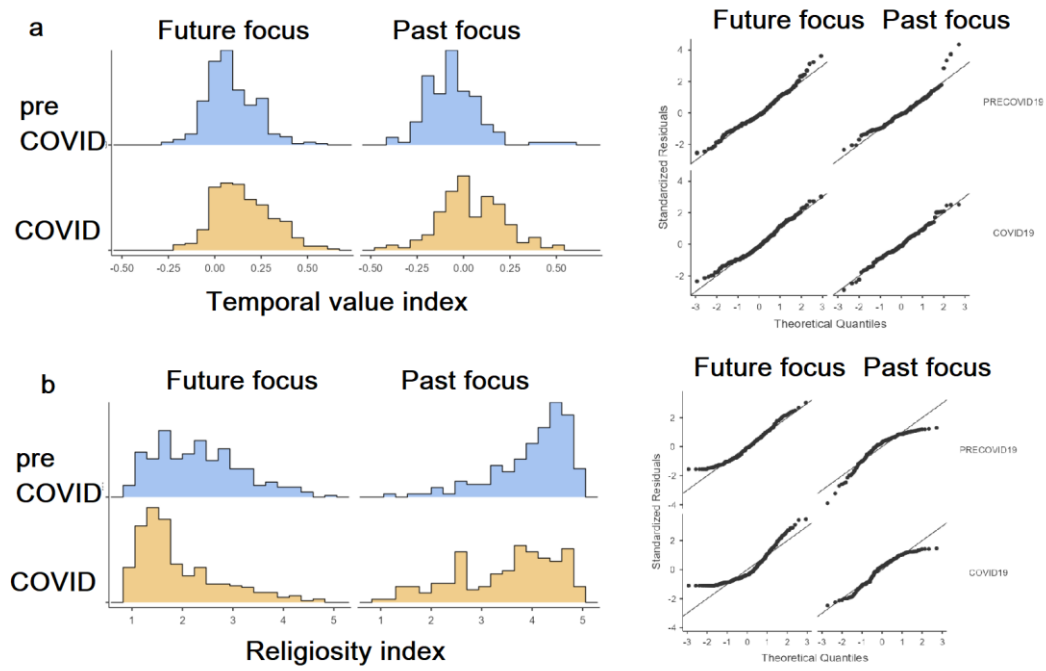
*Note.* Effect sizes are calculated by Rank-Biserial Correlation. The error bars show the 95% Confidence Interval of the effect size. Statistically significant results are marked with asterisks: \*  $p < .05$ , \*\*\*  $p < .001$ .

This plot was already reported in Callizo-Romero (2022). It was computed with data from the entire sample collected before the pandemic and not only with the subsample matched with the sample collected during the pandemic. Sample sizes in each culture are the following: Spaniards ( $N = 192$ ), Chinese ( $N = 96$ ), Turks ( $N = 96$ ), Americans ( $N = 159$ ), Moroccans ( $N = 139$ ), Bosniaks ( $N = 99$ ), Croats ( $N = 100$ ), and Serbs ( $N = 188$ ).

\*The word ‘Americans’ refers to U.S. Americans.

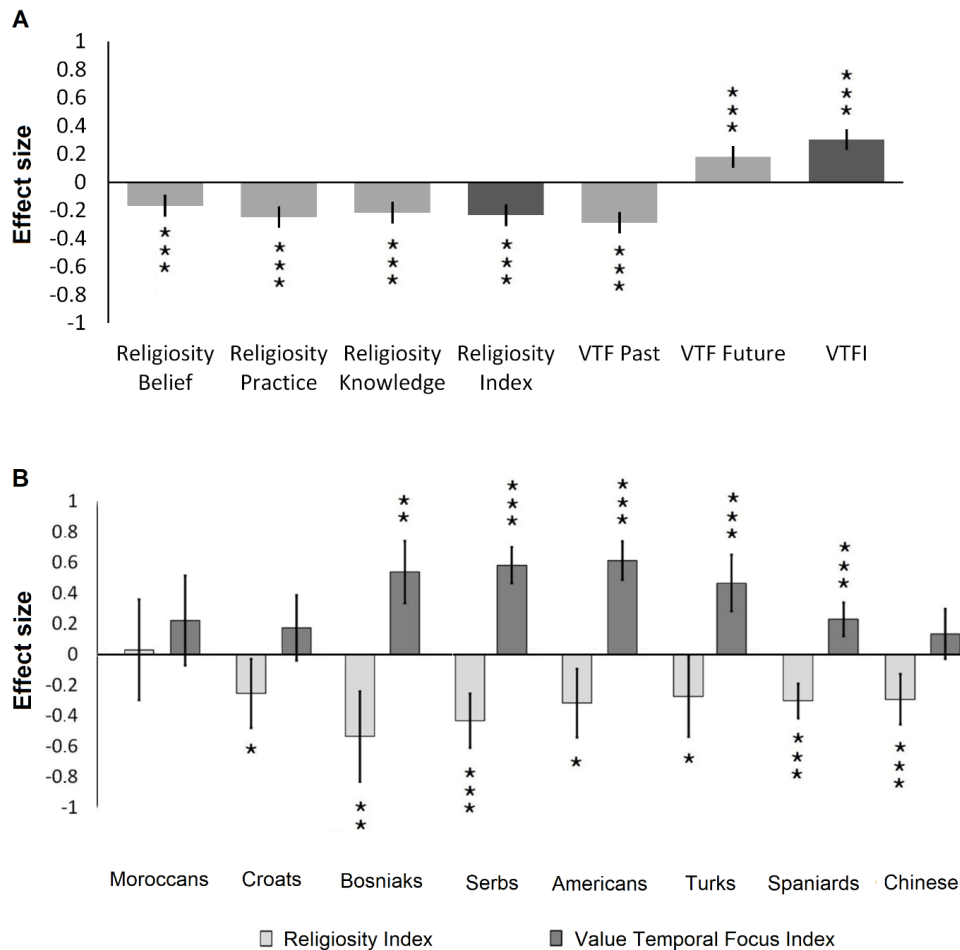
**Figure S4**

*Histograms and Q-Q Plots of Samples Collected Before and During the Pandemic for the Cultural Clusters Oriented to the Past (Traditional) and Future (Progressive) for Both the Temporal Value Index (a) and the Religiosity Index (b)*



**Figure S5**

*Effect Sizes Calculated by Rank Biserial Correlation From Comparing the Samples Collected During Versus Before COVID-19 in (A) the Whole Set of Subscales and Indexes From the Religiosity and Temporal Focus Questionnaires in the Overall Sample and (B) the Religiosity and VTFI in Each Cultural Group*



*Note.* VTF = Value Temporal Focus.

For the Mann-Whitney test, effect sizes are given by the rank-biserial correlation.

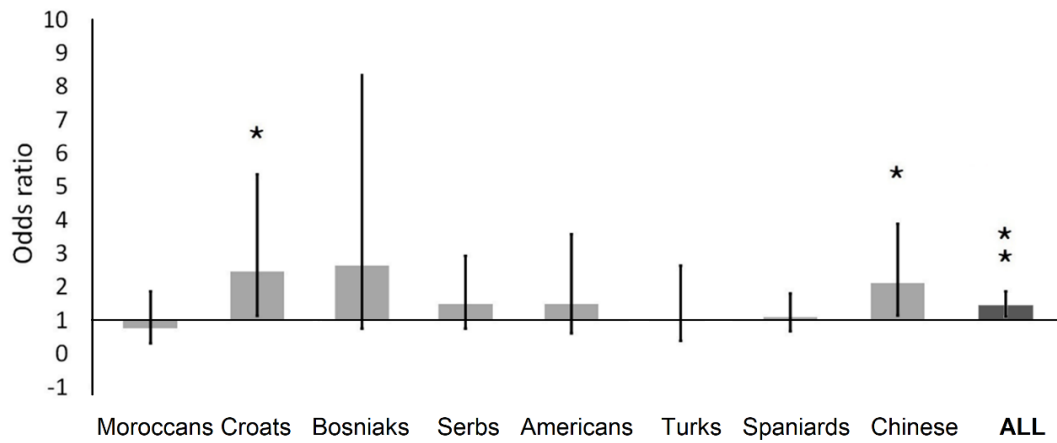
\*Positive effect sizes for a variable indicate that the score of the sample collected *during* the pandemic is higher than that of the sample collected *before* the pandemic (as shown in the VTFI), and negative effect sizes indicate the opposite (as shown in the religiosity index).

\*The error bars show the 95% confidence interval of the effect size. Statistically significant results are marked with asterisks: \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$ .

\*The cultures shown in Figure 2B are ordered from the most to the least religious according to our data collected before the pandemic.

**Figure S6**

*Effect Sizes (Odds Ratios) From Comparing the Time Spatialization in the Samples Collected During Versus Before the COVID-19 Pandemic Both Within Each Culture and Overall*



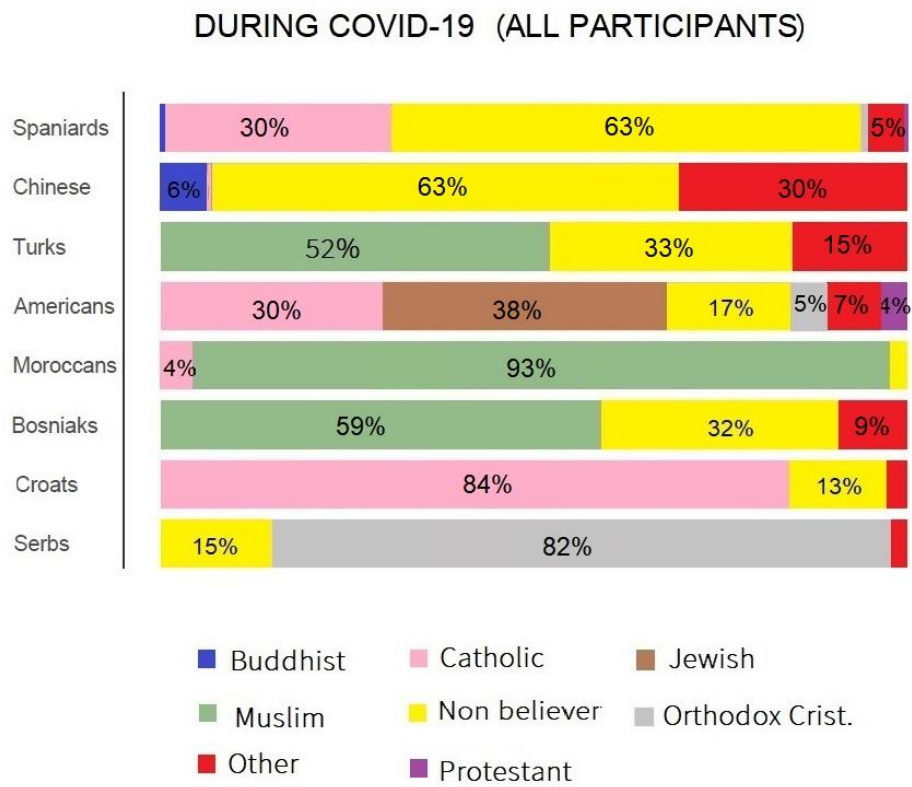
*Note.* Cultures appear ordered from left to right, from the most to the least religious, according to the sample collected before the pandemic. The result of all the samples pooled together is shown on the far right.

\*Time spatialization indicates the proportion of participants who placed the future in front

\*The error bars show the 95% Confidence Interval. Statistically significant results are marked with asterisks: \*  $p < .05$ , \*\*  $p < .01$ .

**Figure S7**

*Percentage of Each Religious Denomination or Religious Position in Each Culture from the Total Sample Collected During COVID-19.*

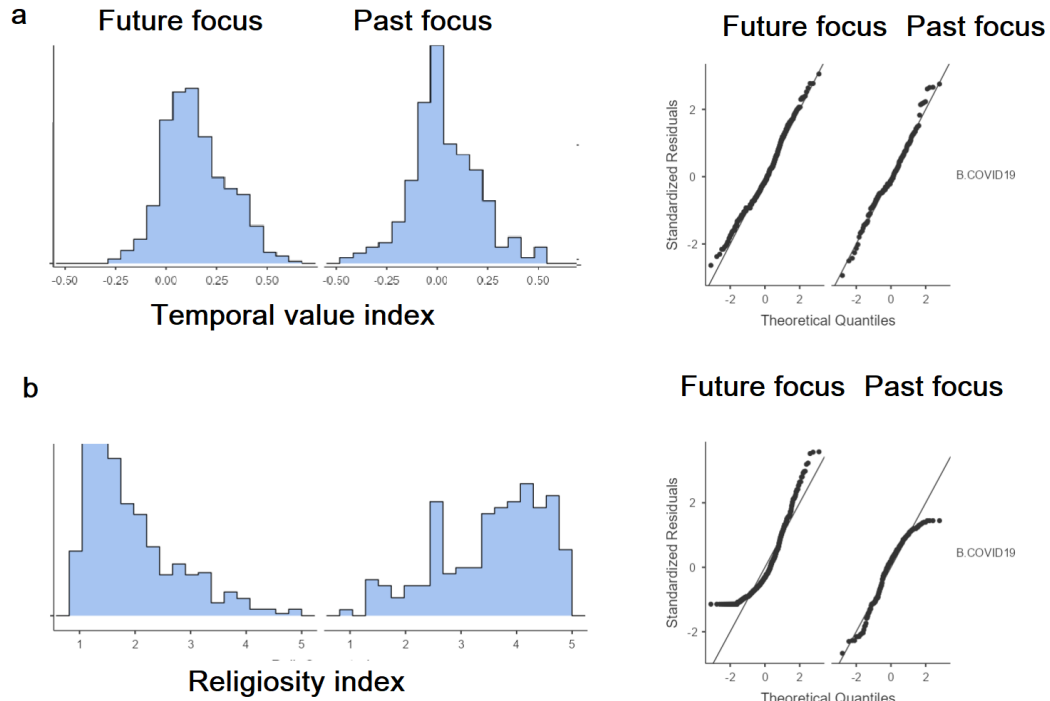


*Note.* All percentages greater than or equal to 4% are shown.

\*The word ‘Americans’ refers to U.S. Americans.

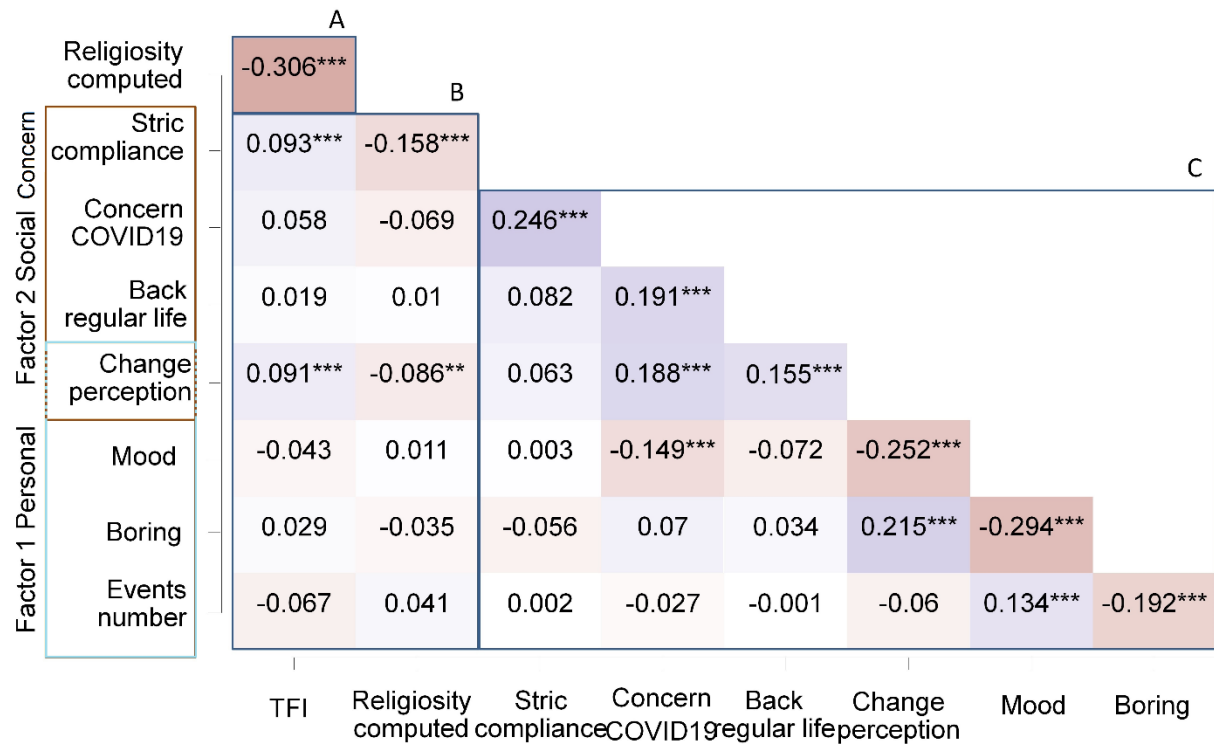
**Figure S8**

*Histograms and Q-Q Plots of the Completed Sample Collected During the Pandemic for the Cultural Clusters Oriented to the Past (Traditional) and Future (Progressive) for Both the Temporal Value Index (a) and the Religiosity Index (b)*



**Figure S9**

*Heatmap Showing Kendall's Tau-B Correlation Coefficients Between the Temporal Focus Index and Religiosity Index With Each Other (Area A); Between These and The COVID-19 Items (Area B); and Between The COVID-19 Items With Each Other (Area C)*



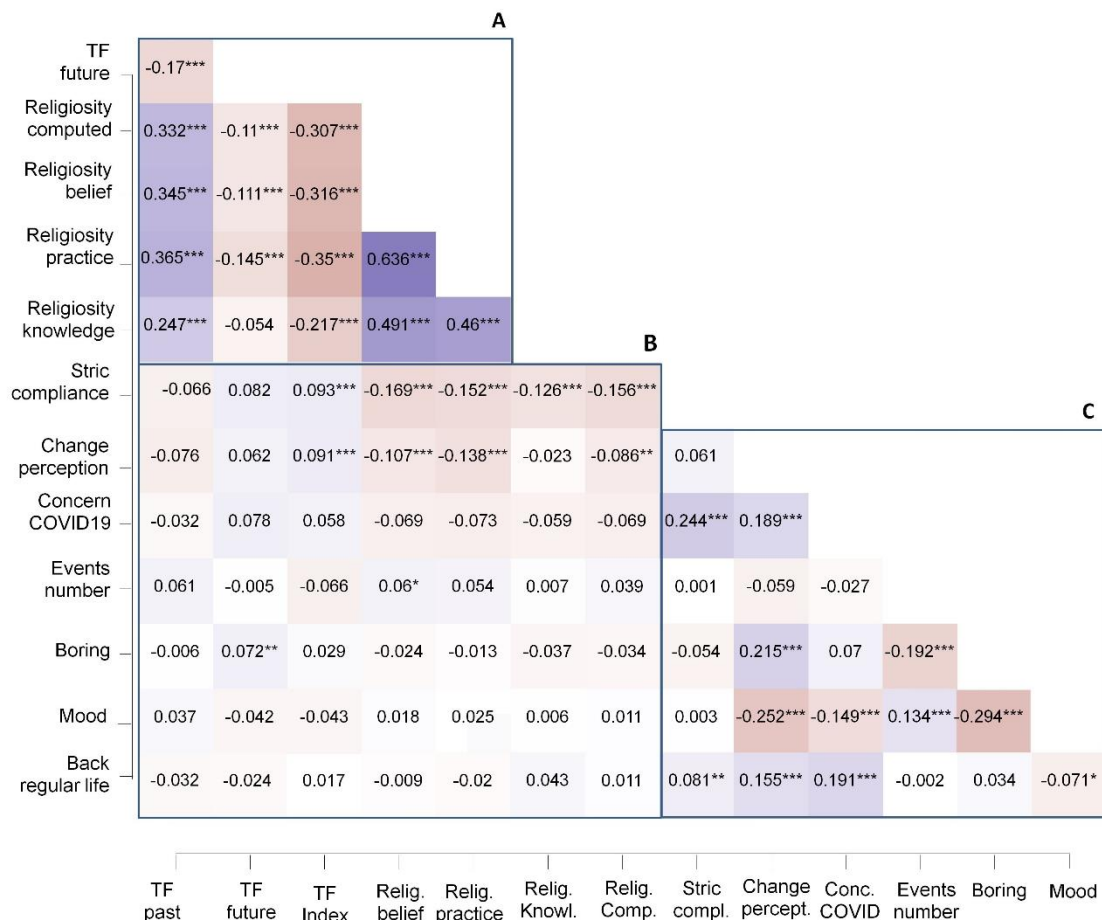
*Note.* The effect sizes of the correlations were the following: between the temporal focus items and the religiosity items (area A;  $N = 798$ ); between the temporal focus items and the COVID-19 items (area B;  $N = 802$ ) except for the Back regular life item (area B;  $N = 766$ ); between the religiosity items and the COVID-19 items (area B;  $N = 797$ ) except for the Back regular life item (area B;  $N = 762$ ); between the COVID-19 items to each other (area C;  $N = 893$ ) except for the item back regular like (area C;  $N = 855$ ).

\*The multiple correlations from the correlation matrix were corrected by the Holm-Bonferroni method.

Statistically significant results are marked asterisks: \* $p < .05$ , \*\* $p < .01$ , \*\*\* $p < .001$ .

**Figure S10**

Heatmap showing Kendall's tau-b correlation coefficients between the Temporal Focus Future, Temporal Focus Past, Religiosity Belief, Religiosity Practice, and Religiosity Knowledge to each other (area A); between these and the COVID-19 items (area B); and between the COVID-19 items to each other (area C)

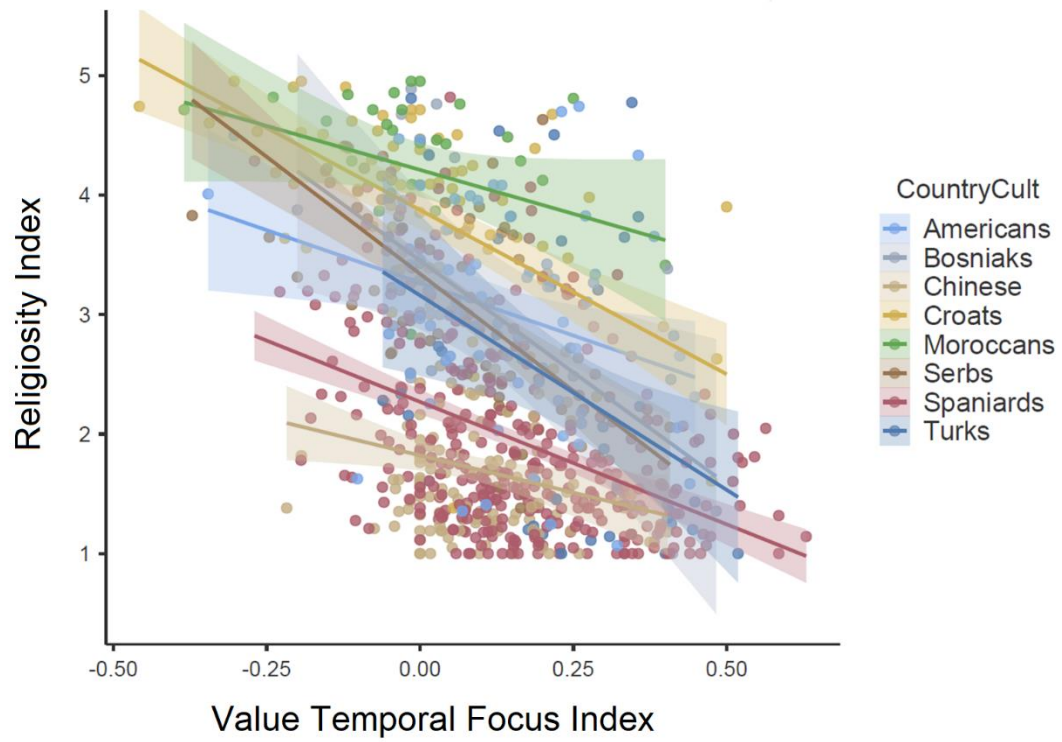


*Note.* The effect sizes of the correlations were the following: between the temporal focus items to each other (area A;  $N = 802$ ); between the religiosity items to each other (area A;  $N = 797$ ); between the temporal focus items and the religiosity items (area A;  $N = 798$ ); between the temporal focus items and the COVID-19 items (area B;  $N = 802$ ) except for the Back regular life item (area B;  $N = 766$ ); between the religiosity items and the COVID-19 items (area B;  $N = 797$ ) except for the Back regular life item (area B;  $N = 762$ ); between the COVID-19 items to each other (area C;  $N = 893$ ) except for the item back regular like (area C;  $N = 855$ ).

\*The multiple correlations from the correlation matrix were corrected by the Holm-Bonferroni method. Statistically significant results are marked with asterisks: \* $p < .05$ , \*\* $p < .01$ , \*\*\* $p < .001$ .

**Figure S11**

*Scatter-Plot Showing the Correlations Between Religiosity Index and Temporal Focus Index During The COVID-19 Pandemic in Each Cultural Group.*



*Note.* The regression line and its standard error are shown for each culture.

\*The word 'Americans' refers to U.S. Americans.