# Supplementary materials 1: Full results of tests of measurement invariance

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Scale | Group | Test | RMSEA | CFI | TLI | SRMR | ΔRMSEA | ΔCFI | Invariance |
| Balanced Inventory of Desirable Responding | Median age | configural | 0.034 | 0.951 | 0.948 | 0.072 |  |  | Pass |
|  | metric | 0.041 | 0.926 | 0.924 | 0.076 | 0.007 | -0.025 | Fail |
|  | scalar | 0.043 | 0.914 | 0.914 | 0.078 | 0.002 | -0.012 | Pass |
| Gender | configural | 0.028 | 0.966 | 0.964 | 0.069 |  |  | Pass |
|  | metric | 0.033 | 0.951 | 0.949 | 0.072 | 0.005 | -0.015 | Fail |
|  | scalar | 0.037 | 0.937 | 0.937 | 0.074 | 0.004 | -0.014 | Pass |
| Impression Management | Median age | configural | 0.043 | 0.949 | 0.943 | 0.041 |  |  | Pass |
|  | metric | 0.043 | 0.946 | 0.942 | 0.043 | 0.000 | -0.003 | Pass |
|  | scalar | 0.046 | 0.932 | 0.932 | 0.047 | 0.003 | -0.014 | Pass |
| Gender | configural | 0.041 | 0.953 | 0.947 | 0.040 |  |  | Pass |
|  | metric | 0.041 | 0.951 | 0.948 | 0.041 | 0.000 | -0.002 | Pass |
|  | scalar | 0.046 | 0.935 | 0.934 | 0.046 | 0.005 | -0.016 | Fail |
| Self Deception | Median age | configural | 0.063 | 0.820 | 0.796 | 0.060 |  |  | Fail |
|  | metric | 0.061 | 0.820 | 0.808 | 0.060 | -0.002 | 0.000 | Pass |
|  | scalar | 0.063 | 0.798 | 0.797 | 0.063 | 0.002 | -0.022 | Fail |
| Gender | configural | 0.063 | 0.820 | 0.796 | 0.060 |  |  | Fail |
|  | metric | 0.062 | 0.816 | 0.804 | 0.060 | -0.001 | -0.004 | Pass |
|  | scalar | 0.063 | 0.797 | 0.796 | 0.063 | 0.001 | -0.019 | Fail |
| Bayesian Racism | Median age | configural | 0.048 | 0.966 | 0.961 | 0.047 |  |  | Pass |
|  | metric | 0.048 | 0.963 | 0.960 | 0.049 | 0.000 | -0.003 | Pass |
|  | scalar | 0.049 | 0.959 | 0.959 | 0.051 | 0.001 | -0.004 | Pass |
| Gender | configural | 0.046 | 0.966 | 0.961 | 0.045 |  |  | Pass |
|  | metric | 0.052 | 0.955 | 0.951 | 0.051 | 0.006 | -0.011 | Pass |
|  | scalar | 0.054 | 0.947 | 0.947 | 0.054 | 0.002 | -0.008 | Pass |
| Belief in a Just World: General Just World Scale | Median age | configural | 0.045 | 0.988 | 0.980 | 0.030 |  |  | Pass |
|  | metric | 0.043 | 0.986 | 0.982 | 0.032 | -0.002 | -0.002 | Pass |
|  | scalar | 0.057 | 0.971 | 0.969 | 0.044 | 0.014 | -0.015 | Fail |
| Gender | configural | 0.048 | 0.987 | 0.978 | 0.032 |  |  | Pass |
|  | metric | 0.042 | 0.987 | 0.983 | 0.032 | -0.006 | 0.000 | Pass |
|  | scalar | 0.045 | 0.982 | 0.980 | 0.037 | 0.003 | -0.005 | Pass |
| Big 5 Inventory | Median age | configural | 0.051 | 0.923 | 0.918 | 0.084 |  |  | Pass |
|  | metric | 0.053 | 0.913 | 0.910 | 0.086 | 0.002 | -0.010 | Pass |
|  | scalar | 0.054 | 0.910 | 0.908 | 0.087 | 0.001 | -0.003 | Pass |
| Gender | configural | 0.052 | 0.924 | 0.919 | 0.083 |  |  | Pass |
|  | metric | 0.054 | 0.916 | 0.913 | 0.085 | 0.002 | -0.008 | Pass |
|  | scalar | 0.054 | 0.913 | 0.912 | 0.086 | 0.000 | -0.003 | Pass |
| A,O | Median age | configural | 0.053 | 0.933 | 0.924 | 0.053 |  |  | Pass |
|  | metric | 0.052 | 0.931 | 0.926 | 0.053 | -0.001 | -0.002 | Pass |
|  | scalar | 0.054 | 0.921 | 0.920 | 0.056 | 0.002 | -0.010 | Pass |
| Gender | configural | 0.051 | 0.937 | 0.929 | 0.051 |  |  | Pass |
|  | metric | 0.051 | 0.934 | 0.930 | 0.052 | 0.000 | -0.003 | Pass |
|  | scalar | 0.054 | 0.924 | 0.922 | 0.055 | 0.003 | -0.010 | Pass |
| E,C,N | Median age | configural | 0.073 | 0.909 | 0.900 | 0.071 |  |  | Fail |
|  | metric | 0.073 | 0.907 | 0.901 | 0.072 | 0.000 | -0.002 | Pass |
|  | scalar | 0.073 | 0.904 | 0.902 | 0.073 | 0.000 | -0.003 | Pass |
| Gender | configural | 0.072 | 0.913 | 0.904 | 0.070 |  |  | Fail |
|  | metric | 0.071 | 0.911 | 0.906 | 0.070 | -0.001 | -0.002 | Pass |
|  | scalar | 0.071 | 0.909 | 0.908 | 0.071 | 0.000 | -0.002 | Pass |
| Humanitarianism-Egalitarianism | Median age | configural | 0.041 | 0.980 | 0.975 | 0.048 |  |  | Pass |
|  | metric | 0.043 | 0.976 | 0.973 | 0.051 | 0.002 | -0.004 | Pass |
|  | scalar | 0.048 | 0.966 | 0.966 | 0.056 | 0.005 | -0.010 | Pass |
| Gender | configural | 0.044 | 0.978 | 0.971 | 0.050 |  |  | Pass |
|  | metric | 0.045 | 0.974 | 0.970 | 0.052 | 0.001 | -0.004 | Pass |
|  | scalar | 0.046 | 0.969 | 0.968 | 0.055 | 0.001 | -0.005 | Pass |
| Intuitions about Controllability and Awareness of Thoughts | Median age | configural | 0.064 | 0.958 | 0.952 | 0.086 |  |  | Pass |
|  | metric | 0.070 | 0.946 | 0.942 | 0.093 | 0.006 | -0.012 | Pass |
|  | scalar | 0.070 | 0.943 | 0.942 | 0.095 | 0.000 | -0.003 | Pass |
| Gender | configural | 0.064 | 0.957 | 0.950 | 0.087 |  |  | Pass |
|  | metric | 0.063 | 0.956 | 0.953 | 0.088 | -0.001 | -0.001 | Pass |
|  | scalar | 0.060 | 0.958 | 0.957 | 0.089 | -0.003 | 0.002 | Pass |
| Others | Median age | configural | 0.086 | 0.903 | 0.871 | 0.074 |  |  | Fail |
|  | metric | 0.082 | 0.898 | 0.882 | 0.076 | -0.004 | -0.005 | Pass |
|  | scalar | 0.080 | 0.891 | 0.888 | 0.077 | -0.002 | -0.007 | Pass |
| Gender | configural | 0.086 | 0.904 | 0.872 | 0.074 |  |  | Fail |
|  | metric | 0.080 | 0.904 | 0.888 | 0.074 | -0.006 | 0.000 | Pass |
|  | scalar | 0.078 | 0.898 | 0.895 | 0.075 | -0.002 | -0.006 | Pass |
| Self | Median age | configural | 0.088 | 0.933 | 0.911 | 0.070 |  |  | Fail |
|  | metric | 0.082 | 0.932 | 0.921 | 0.071 | -0.006 | -0.001 | Pass |
|  | scalar | 0.083 | 0.923 | 0.921 | 0.075 | 0.001 | -0.009 | Pass |
| Gender | configural | 0.090 | 0.928 | 0.904 | 0.072 |  |  | Fail |
|  | metric | 0.084 | 0.928 | 0.916 | 0.073 | -0.006 | 0.000 | Pass |
|  | scalar | 0.080 | 0.927 | 0.925 | 0.073 | -0.004 | -0.001 | Pass |
| Need for Cognition | Median age | configural | 0.044 | 0.978 | 0.975 | 0.045 |  |  | Pass |
|  | metric | 0.046 | 0.975 | 0.973 | 0.048 | 0.002 | -0.003 | Pass |
|  | scalar | 0.047 | 0.971 | 0.971 | 0.050 | 0.001 | -0.004 | Pass |
| Gender | configural | 0.044 | 0.980 | 0.977 | 0.044 |  |  | Pass |
|  | metric | 0.044 | 0.978 | 0.976 | 0.046 | 0.000 | -0.002 | Pass |
|  | scalar | 0.045 | 0.975 | 0.975 | 0.048 | 0.001 | -0.003 | Pass |
| Need for Cognitive Closure | Median age | configural | 0.051 | 0.921 | 0.916 | 0.085 |  |  | Pass |
|  | metric | 0.055 | 0.907 | 0.902 | 0.088 | 0.004 | -0.014 | Pass |
|  | scalar | 0.055 | 0.905 | 0.903 | 0.089 | 0.000 | -0.002 | Pass |
| Gender | configural | 0.053 | 0.918 | 0.912 | 0.085 |  |  | Pass |
|  | metric | 0.055 | 0.910 | 0.906 | 0.087 | 0.002 | -0.008 | Pass |
|  | scalar | 0.054 | 0.909 | 0.907 | 0.087 | -0.001 | -0.001 | Pass |
| O,A | Median age | configural | 0.049 | 0.954 | 0.946 | 0.046 |  |  | Pass |
|  | metric | 0.049 | 0.952 | 0.948 | 0.047 | 0.000 | -0.002 | Pass |
|  | scalar | 0.051 | 0.944 | 0.942 | 0.050 | 0.002 | -0.008 | Pass |
| Gender | configural | 0.050 | 0.953 | 0.944 | 0.046 |  |  | Pass |
|  | metric | 0.049 | 0.952 | 0.947 | 0.046 | -0.001 | -0.001 | Pass |
|  | scalar | 0.051 | 0.944 | 0.942 | 0.050 | 0.002 | -0.008 | Pass |
| P,D,CM | Median age | configural | 0.066 | 0.883 | 0.869 | 0.064 |  |  | Fail |
|  | metric | 0.065 | 0.881 | 0.873 | 0.065 | -0.001 | -0.002 | Pass |
|  | scalar | 0.066 | 0.872 | 0.869 | 0.067 | 0.001 | -0.009 | Pass |
| Gender | configural | 0.068 | 0.878 | 0.864 | 0.066 |  |  | Fail |
|  | metric | 0.067 | 0.877 | 0.868 | 0.067 | -0.001 | -0.001 | Pass |
|  | scalar | 0.067 | 0.872 | 0.869 | 0.068 | 0.000 | -0.005 | Pass |
| Personal Need for Structure | Median age | configural | 0.062 | 0.970 | 0.963 | 0.056 |  |  | Pass |
|  | metric | 0.062 | 0.966 | 0.963 | 0.058 | 0.000 | -0.004 | Pass |
|  | scalar | 0.063 | 0.962 | 0.962 | 0.061 | 0.001 | -0.004 | Pass |
| Gender | configural | 0.062 | 0.969 | 0.963 | 0.055 |  |  | Pass |
|  | metric | 0.060 | 0.968 | 0.964 | 0.057 | -0.002 | -0.001 | Pass |
|  | scalar | 0.059 | 0.967 | 0.966 | 0.058 | -0.001 | -0.001 | Pass |
| Protestant Ethic | Median age | configural | 0.063 | 0.950 | 0.937 | 0.057 |  |  | Pass |
|  | metric | 0.061 | 0.948 | 0.942 | 0.058 | -0.002 | -0.002 | Pass |
|  | scalar | 0.061 | 0.942 | 0.941 | 0.061 | 0.000 | -0.006 | Pass |
| Gender | configural | 0.063 | 0.951 | 0.939 | 0.057 |  |  | Pass |
|  | metric | 0.061 | 0.948 | 0.942 | 0.058 | -0.002 | -0.003 | Pass |
|  | scalar | 0.060 | 0.945 | 0.944 | 0.060 | -0.001 | -0.003 | Pass |
| Ring-Wing Authoritarianism | Median age | configural | 0.074 | 0.961 | 0.956 | 0.074 |  |  | Pass |
|  | metric | 0.074 | 0.958 | 0.955 | 0.077 | 0.000 | -0.003 | Pass |
|  | scalar | 0.076 | 0.954 | 0.954 | 0.079 | 0.002 | -0.004 | Pass |
| Gender | configural | 0.075 | 0.960 | 0.956 | 0.076 |  |  | Pass |
|  | metric | 0.075 | 0.958 | 0.956 | 0.077 | 0.000 | -0.002 | Pass |
|  | scalar | 0.075 | 0.956 | 0.956 | 0.079 | 0.000 | -0.002 | Pass |
| Rosenberg Self-Esteem | Median age | configural | 0.058 | 0.982 | 0.977 | 0.057 |  |  | Pass |
|  | metric | 0.060 | 0.979 | 0.976 | 0.063 | 0.002 | -0.003 | Pass |
|  | scalar | 0.060 | 0.976 | 0.976 | 0.065 | 0.000 | -0.003 | Pass |
| Gender | configural | 0.058 | 0.983 | 0.978 | 0.057 |  |  | Pass |
|  | metric | 0.056 | 0.982 | 0.979 | 0.059 | -0.002 | -0.001 | Pass |
|  | scalar | 0.054 | 0.981 | 0.980 | 0.060 | -0.002 | -0.001 | Pass |
| Self-Monitoring | Median age | configural | 0.113 | 0.691 | 0.649 | 0.102 |  |  | Fail |
|  | metric | 0.110 | 0.687 | 0.666 | 0.103 | -0.003 | -0.004 | Pass |
|  | scalar | 0.108 | 0.682 | 0.679 | 0.104 | -0.002 | -0.005 | Pass |
| Gender | configural | 0.112 | 0.690 | 0.649 | 0.102 |  |  | Fail |
|  | metric | 0.110 | 0.687 | 0.666 | 0.102 | -0.002 | -0.003 | Pass |
|  | scalar | 0.109 | 0.674 | 0.672 | 0.104 | -0.001 | -0.013 | Pass |
| Social Dominance Orientation | Median age | configural | 0.067 | 0.947 | 0.936 | 0.064 |  |  | Fail |
|  | metric | 0.066 | 0.944 | 0.938 | 0.065 | -0.001 | -0.003 | Pass |
|  | scalar | 0.068 | 0.935 | 0.934 | 0.069 | 0.002 | -0.009 | Pass |
| Gender | configural | 0.069 | 0.941 | 0.928 | 0.065 |  |  | Fail |
|  | metric | 0.066 | 0.941 | 0.934 | 0.065 | -0.003 | 0.000 | Pass |
|  | scalar | 0.065 | 0.938 | 0.937 | 0.066 | -0.001 | -0.003 | Pass |
| Spheres of Control | Median age | configural | 0.041 | 0.951 | 0.944 | 0.075 |  |  | Pass |
|  | metric | 0.050 | 0.922 | 0.916 | 0.082 | 0.009 | -0.029 | Fail |
|  | scalar | 0.049 | 0.922 | 0.921 | 0.083 | -0.001 | 0.000 | Pass |
| Gender | configural | 0.041 | 0.950 | 0.944 | 0.074 |  |  | Pass |
|  | metric | 0.047 | 0.931 | 0.927 | 0.078 | 0.006 | -0.019 | Fail |
|  | scalar | 0.047 | 0.928 | 0.927 | 0.080 | 0.000 | -0.003 | Pass |
| Interpersonal Control | Median age | configural | 0.059 | 0.963 | 0.950 | 0.049 |  |  | Pass |
|  | metric | 0.055 | 0.962 | 0.956 | 0.049 | -0.004 | -0.001 | Pass |
|  | scalar | 0.054 | 0.959 | 0.958 | 0.051 | -0.001 | -0.003 | Pass |
| Gender | configural | 0.059 | 0.964 | 0.952 | 0.048 |  |  | Pass |
|  | metric | 0.055 | 0.963 | 0.958 | 0.049 | -0.004 | -0.001 | Pass |
|  | scalar | 0.055 | 0.959 | 0.958 | 0.051 | 0.000 | -0.004 | Pass |
| Personal Efficacy | Median age | configural | 0.078 | 0.834 | 0.787 | 0.066 |  |  | Fail |
|  | metric | 0.074 | 0.833 | 0.809 | 0.066 | -0.004 | -0.001 | Pass |
|  | scalar | 0.072 | 0.821 | 0.817 | 0.068 | -0.002 | -0.012 | Pass |
| Gender | configural | 0.076 | 0.843 | 0.798 | 0.064 |  |  | Fail |
|  | metric | 0.072 | 0.841 | 0.819 | 0.065 | -0.004 | -0.002 | Pass |
|  | scalar | 0.078 | 0.793 | 0.788 | 0.072 | 0.006 | -0.048 | Fail |
| *Notes:* Criteria for measurement invariance were meeting configural invariance (SRMR ≤ .09 and any one of CFI ≥ .95, TLI ≥ .95, or RMSEA ≤ .06; see Hu & Bentler, 1999), metric invariance and scalar invariance (for each, meeting both ΔCFI ≥ -.15 and ΔRMSEA ≤ .01; see Chen, 2007). | | | | | | | | | |