# Supplements

Table S1: First pass quality checks detailed in quality\_check(data) in Self\_Regulation\_Ontology/selfregulation/utils/data\_preparation\_utils.py. A subject is considered ‘failed’ if they fail >3 criteria.

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| --- | --- | --- |
| Type | Criteria | Exceptions |
| Response time threshold | > 200 ms/trial | Angling risk task: 0 ms  Simple reaction time: 150 ms |
| Accuracy threshold | > 0.6 | Digit span: 0  Hierarchical rule: 0  Information sampling: 0  Probabilistic selection: 0  Ravens: 0  Shift task: 0  Spatial span: 0  Tower of London: 0 |
| Missed trials threshold | < 0.25 | Information sampling task: 1  Go no go: 1  Tower of london: 2 |
| Response threshold | > 0.95 | Angling risk task: NA  Columbia card task cold: NA  Discount titrate: NA  Digit span: NA  Go no go: .98  Kirby: NA  Simple reaction time: NA  Spatial span: NA |
| Information sampling task | >2 clicks per trial |  |
| Psychological refractory period | Both response times >200 ms/trial  Both choice accuracies >0.6 |  |
| Tower of London | Not making >2 moves in a problem |  |
| Two stage | Both response times >200 ms/trial  Both responses >0.95 |  |
| Writing task | >100 total words |  |

Table S2: Demographic items

|  |  |
| --- | --- |
| Alcohol | How many drinks containing alcohol do you have on a typical day when you are drinking? |
| How often do you have a drink containing alcohol? |
| How often do you have six or more drinks on one occasion? |
| How often during the last year have you found that you were not able to stop drinking once you had started? |
| How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session? |
| How often during the last year have you failed to do what was normally expected from you because of drinking? |
| How often during the last year have you had a feeling of guilt or remorse after drinking? |
| How often during the last year have you been unable to remember what happened the night before because you had been drinking? |
| Have you or someone else been injured as a result of your drinking? |
| Has a relative or friend or a doctor or another health worker been concerned about your drinking or suggested you cut down? |
| Caffeine | On average, how many cans of caffeinated soda do you have each day? |
| What is your daily caffeine intake from other sources each day (in mg)? |
| On average, how many cups of coffee do you have each day? |
| On average, how many cups of tea do you have each day? |
| Drugs | Do you abuse more than one drug at a time? |
| Are you always able to stop using drugs when you want to? |
| Have you had "blackouts" or "flashbacks" as a result of drug use? |
| Have you ever thought about cutting down, or stopping, your use of cannabis? |
| How many hours were you ‘stoned’ on a typical day when you had been using Cannabis? |
| How often do you use cannabis? |
| Have you used any cannabis over the past 6 months? |
| Have you engaged in illegal activities in order to obtain drugs? |
| Do you ever feel bad or guilty about your drug use? |
| How often during the past six months did you find that you were not able to stop using cannabis once you had started? |
| How often in the past six months have you devoted a great deal of your time to getting, using, or recovering from cannabis? |
| How often during the past six months did you fail to do what was normally expected from you because of using cannabis? |
| How often do you use cannabis in situations that could be physically hazardous, such as driving, operating machinery, or caring for children? |
| How often in the past six months have you had a problem with your memory or concentration after using cannabis? |
| Have you had medical problems as a result of your drug use? |
| Have you neglected your family because of your use of drugs? |
| Have you used drugs other than those required for medical reasons? |
| Does your spouse (or parents) ever complain about your involvement with drugs? |
| Have you ever experienced withdrawal symptoms (felt sick) when you stopped taking drugs? |
| Financial | How much credit card debt do you have? |
| How much car-related debt do you have? |
| How much education debt do you have? |
| What is your household's annual income (in dollars)? |
| How much mortgage debt do you have? |
| If you listed any other sources of debt, how much debt do you have? |
| What is your race? |
| Do you rent or own your home/apartment? |
| Do you have a retirement account? |
| If you do have a retirement account what percent is in stocks? |
| Mental health | During the past 30 days, about how often did you feel … nervous? … hopeless? … restless or fidgety? … so depressed that nothing could cheer you up? … so depressed that nothing could cheer you up? |
| The last six questions asked about feelings that might have occurred during the past 30 days. Taking them altogether, did these feelings occur more often in the past 30 days than is usual for you, about the same as usual, or less often than usual? |
| During the past 30 days, how many days out of 30 were you totally unable to work or carry out your normal activities because of these feelings? |
| Not counting the days you reported in response to Q3, how many days in the past 30 were you able to do only half or less of what you would normally have been able to do, because of these feelings? |
| During the past 30 days, how many times did you see a doctor or other health professional about these feelings? |
| During the past 30 days, how often have physical health problems been the main cause of these feelings? |
| Do you have or have you ever been diagnosed with any of the following medical conditions (check all that apply)? ADHD, Alcohol Dependency, Anorexia Nervosa, Anxiety Disorder, Autism Spectrum Disorder, Borderline Personality Disorder, Bulimia, Drug Dependency, Depression, Manic-Depressive (Bipolar) illness, Obsessive Compulsive Disorder, Schizophrenia, Other |
| Physical | How old are you (in years)? |
| How tall are you (in inches: one foot = 12 inches)? |
| Are you of Hispanic, Latino or Spanish origin? |
| What is your sex? |
| How much do you weigh (in pounds)? |
| Have you been diagnosed with any neurological disorder (e.g. Alzheimer's, Parkinson's)? |
| Do you have or have you ever been diagnosed with any of the following psychological disorders ? Type II diabetes, Metabolic Syndrome, High Blood Pressure, Heart Disease, Stroke, Cancer, Sleep Apnea, Other |
| Risk taking | How many times in your life have you been arrested and/or charged with illegal activities? |
| Do you feel you have a problem with gambling? |
| How many traffic accidents have you been in over your life? |
| How many traffic tickets have you gotten in the last year? |
| Smoking | On average, how many cigarettes do you now smoke a day (1 pack = 20 cigarettes)? |
| How long have you smoked (cumulatively)? |
| How soon after you wake up do you smoke your first cigarette? |
| Altogether, have you smoked at least 100 or more cigarettes in your entire lifetime? |
| In the past 30 days, what tobacco products OTHER THAN cigarettes have you used? |
| Do you now smoke cigarettes every day, some days or not at all? |
| Social | How many children do you have? |
| How many times have you been divorced? |
| What is the highest level of education you have completed? |
| How long was/is your longest romantic relationship? |
| What are you motivations for participating in this experiment? |
| How many romantic relationships have you had? |
| What is your relationship status? |

FIGURE S1: Effect of days between completing the two measurements on the difference between the scores from the two time points. The black reflects the trend for all measures with a significant slight negative slope. None of the individual slopes is significant accounting for multiple comparisons.

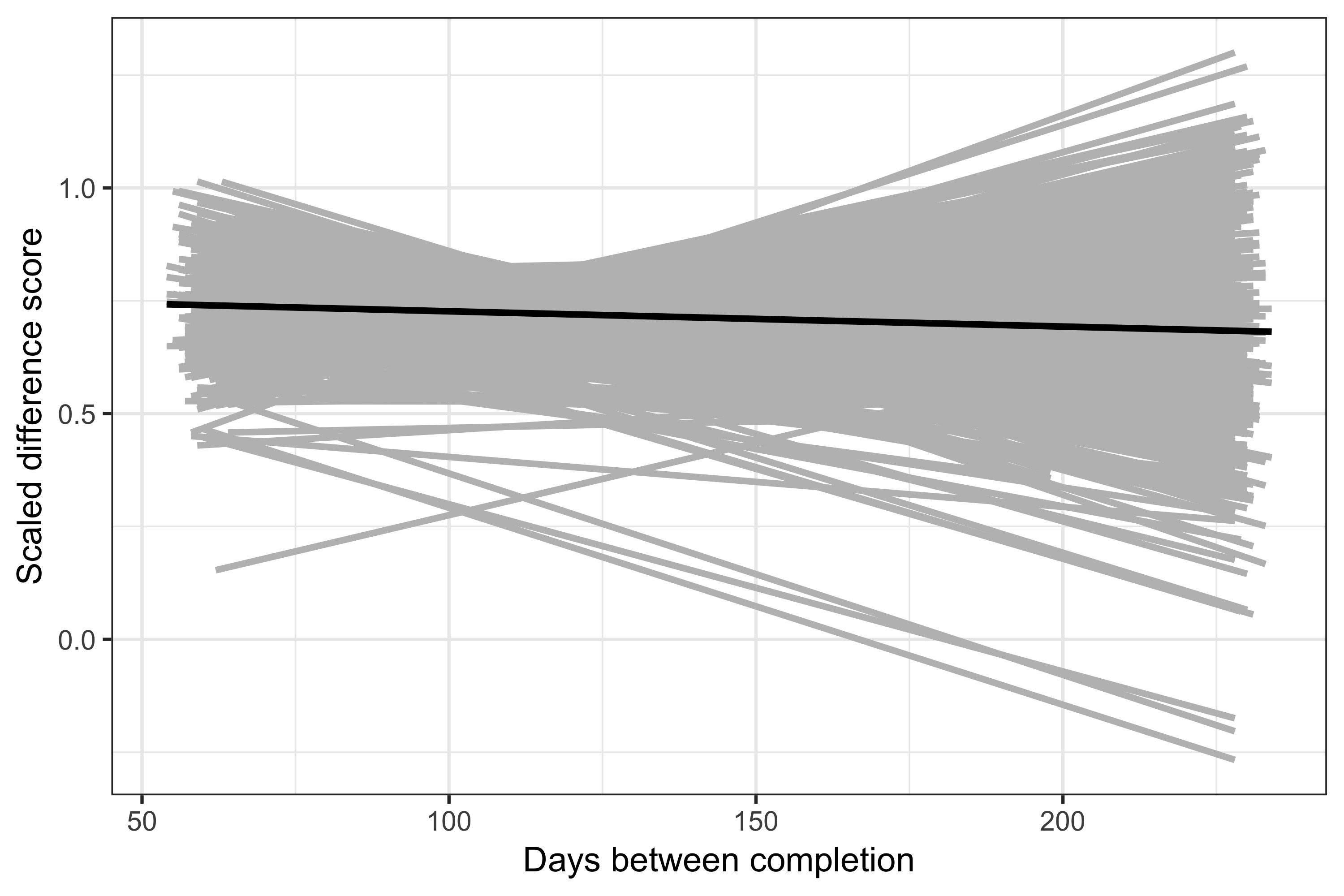


FIGURE S2: Relationship between polychoric correlations and similarity of survey items. Red line denotes correlations between similar items in the first time point and the blue line in the second time point.

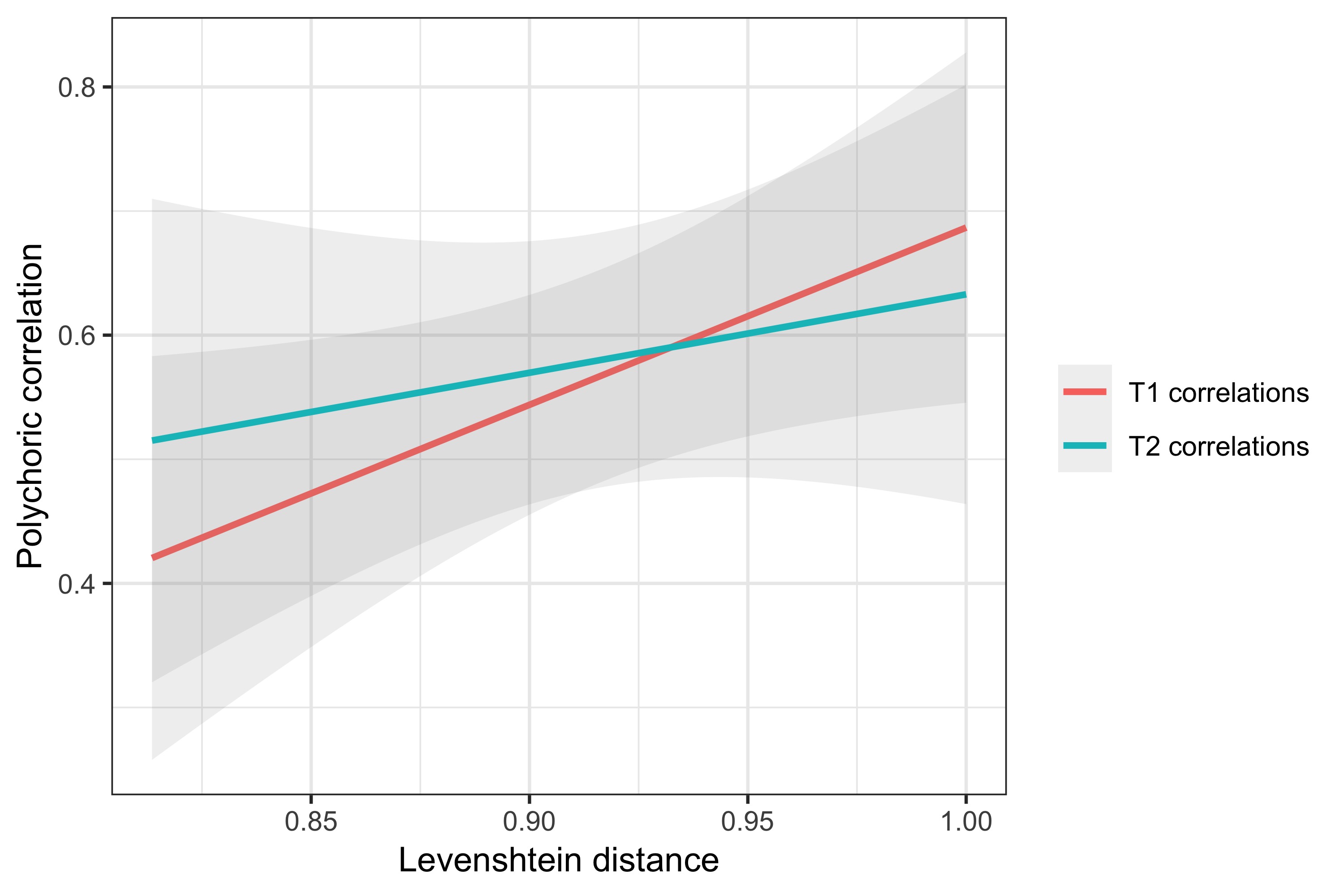


FIGURE S3: Scatter plots of different reliability metrics compared to each other. Point estimates of ⍴’s, r’s and ICC’s for each variable are depicted. Red dots are dependent measures from survey measures while blue dots are those from behavioral tasks.

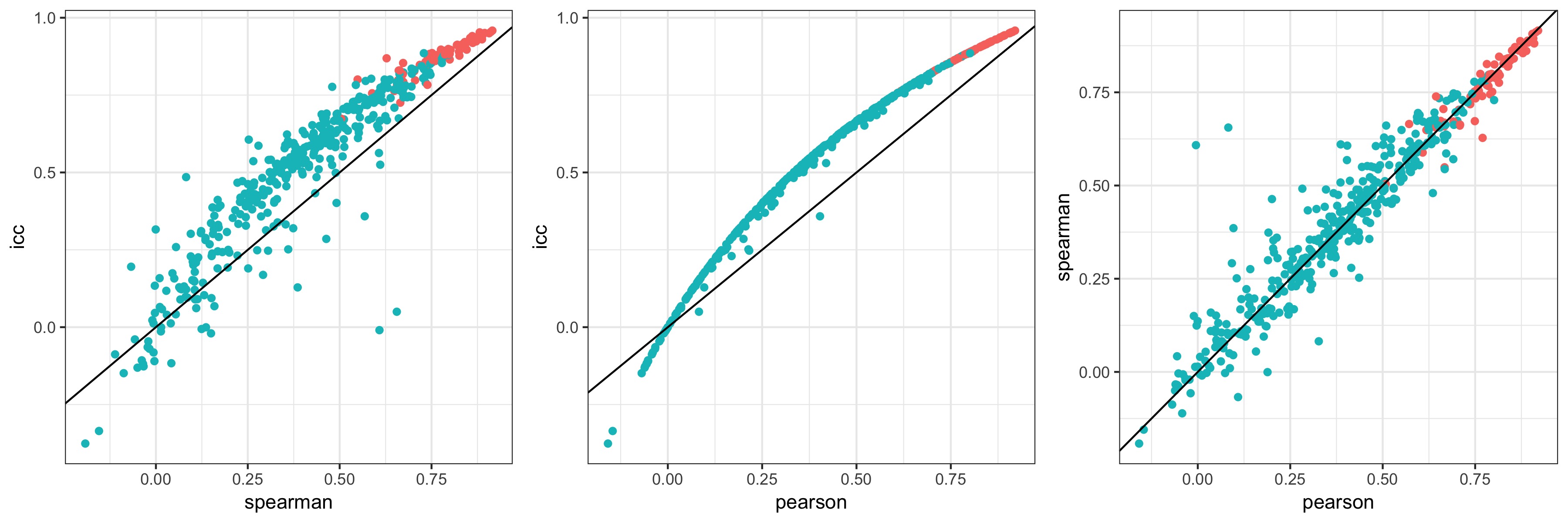


FIGURE S4: Example of how the bootstrapped reliability distributions for multiple measures of a task are overlaid and combined when creating the violin plots for each task in Figure 4.

