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Code overview: The R script file “WITHIN\_METRIC\_example\_code\_PR” is a streamlined version of the code necessary to run the within-subjects analysis. We have commented out several supplementary analyses. The core analyses are on lines 54-60 (the conditional mixed effects model) and lines 74-82 (calculation of within-subject R-squared and boostrapping a confidence interval). The within-subject R-squared will come from the object (rsq\_out\_extra, line 78). The 95% CI will come from the code on line 82.

Other assumptions: This code example is for one measure only (extraversion.d) and assumes that the data are stacked (each individual row has responses to GroundTruth and ScoreEstimate for each person for each measure). This code will need to be run for each measure separately and in the lmer call on line 55 you can specify the measure/data you would like to use (i.e., data=subset(team\_data, variable.name=="extraversion.d")). Below is the structure of the data assumed when using this code:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Date | Variable.name | GroundTruth | ScoreEstimate |
| 1 | 1/11/2018 | agreeableness.d | 4 | 2.56 |
| 1 | 2/12/2018 | agreeableness.d | 4 | 3.21 |
| 1 | 3/14/2018 | agreeableness.d | 4.5 | 5.67 |
| 2 | 1/11/2018 | agreeableness.d | 3 | 3.01 |
| 2 | 2/12/2018 | agreeableness.d | 5 | 2.99 |
| 3 | 1/11/2018 | agreeableness.d | 2 | 5 |
| 3 | 2/12/2018 | agreeableness.d | 1 | 1.21 |
| . | . | cwb.d | . | . |
| . | . | cwb.d | . | . |
| . | . | . | . | . |
| . | . | . | . | . |