Supplemental Figure Captions

Figure S1. Data distributions of depression symptom severity for all three samples. Depression for college student and MTurk samples was measured using the CES-D, which ranges from 0-60; for adolescents, with the CDI:S, which ranges from 0-20. The observed data is plotted as a histogram against density curves from (in blue) the Gaussian (normal) distribution and (in red) the negative binomial distribution. The normal curve used the mean and standard deviation of each sample; the dispersion parameter for the negative binomial distribution corresponds to the estimate of $\theta$ from the negative binomial model chosen by best subsets selection; the mean was the mean of each sample. The dispersion parameter was estimated as 6.13 ($SE$ = 0.65) for the college student sample, as 2.34 ($SE$ = 0.31) for the MTurk sample, and as 3.41 ($SE$ = 1.05) for the adolescent sample.

Figure S1.

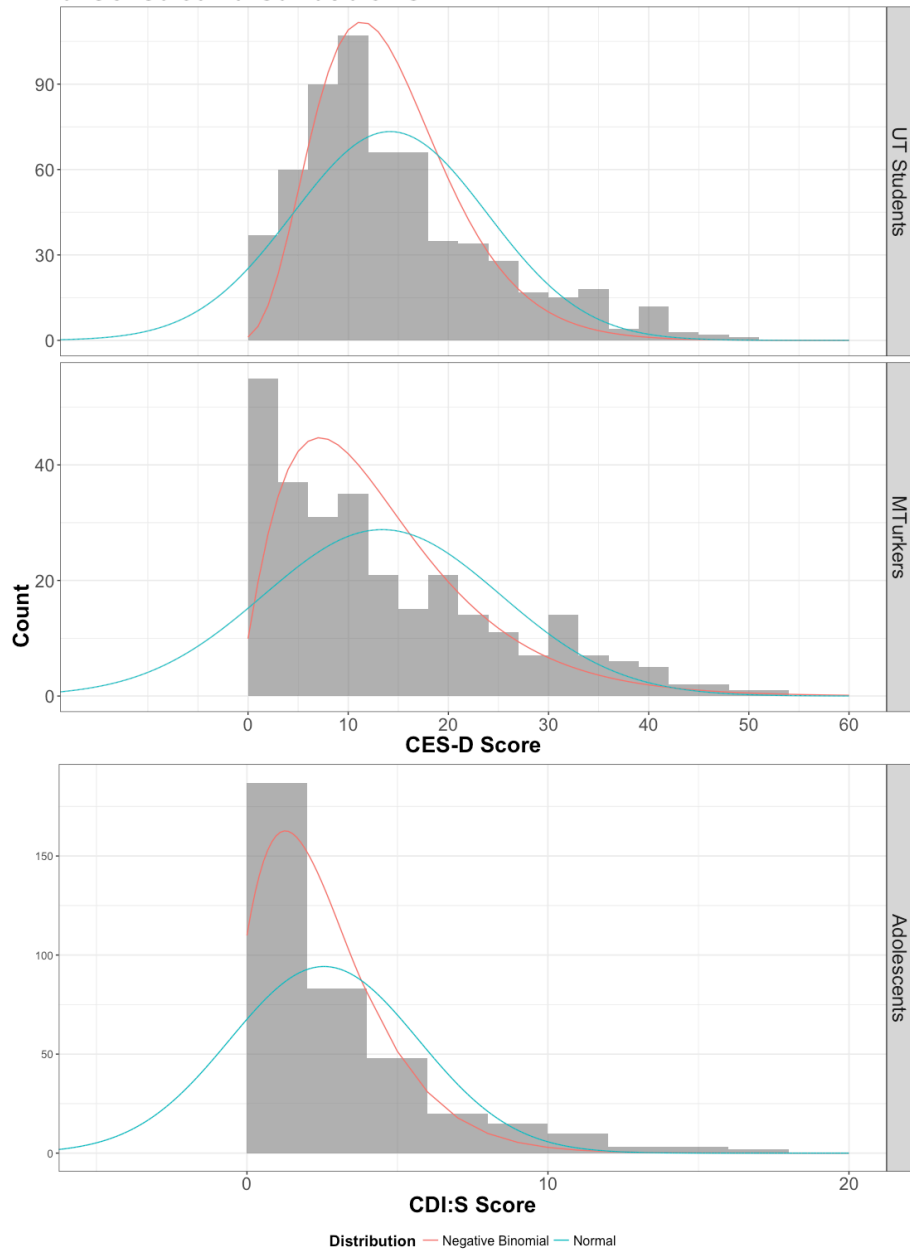**Observed data with theoretical distributions**

Table S1.

*Correlation table for SRET outcome variables (numbered in the first column) and depression symptoms (column 1: score on the CES-D) from the college student sample. \*\* = p < .001; \* = p < .01; † = p < .05.*

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2: Number of Negative Words Endorsed | 0.7** | | | | | | | | | | | | | | | | | | |
| 3: Number of Self-Referential Negative Words Recalled | 0.63** | 0.85** | | | | | | | | | | | | | | | | | |
| 4: Number of Negative Words Recalled | 0.23* | 0.34* | 0.59** | | | | | | | | | | | | | | | | |
| 5: RT to Negative Words | 0.27* | 0.29* | 0.29* | 0.08 | | | | | | | | | | | | | | | |
| 6: Drift Rate (v) to Negative Words | 0.65** | 0.81** | 0.71** | 0.3* | 0.52** | | | | | | | | | | | | | | |
| 7: Relative Starting Point (zr) for Negative Words | 0.24† | 0.31† | 0.27† | -0.01 | 0.17 | 0.07 | | | | | | | | | | | | | |
| 8: Threshold Separation (a) | 0.01 | 0 | -0.04 | -0.09 | 0.73** | 0.17 | 0.07 | | | | | | | | | | | | |
| 9: Differences in Speed of Response Execution (d) | 0.01 | 0 | -0.01 | -0.07 | -0.08 | -0.1 | 0.04 | -0.07 | | | | | | | | | | | |
| 10: Response Time Constant (t0) | 0.2* | 0.25* | 0.3** | 0.18† | 0.52** | 0.37** | -0.05 | 0.05 | -0.12† | | | | | | | | | | |
| 11: Inter-Trial-Variability of Drift (sv) | 0.01 | 0.03 | 0.02 | 0.05 | -0.16 | 0.01 | 0.02 | -0.18† | 0.04 | -0.12 | | | | | | | | | |
| 12: Inter-Trial-Variability of Non-Decisional Components (st0) | 0.25** | 0.28** | 0.19* | -0.02 | 0.37** | 0.33** | 0.21† | 0.18† | -0.06 | 0.33** | -0.16 | | | | | | | | |
| 13: Percentage of Contaminants (p) | 0.01 | 0.06 | 0.03 | -0.02 | 0.03 | 0.04 | -0.03 | 0.01 | 0 | -0.02 | 0 | -0.1 | | | | | | | |
| 14: Inter-Trial-Variability of Starting Point (szr) | -0.14 | -0.08 | -0.05 | 0.07 | -0.01 | -0.14 | 0.04 | 0.06 | -0.17 | 0 | -0.35† | -0.2 | 0.02 | | | | | | |
| 15: Relative Starting Point (zr) for Positive Words | -0.1 | -0.05 | -0.07 | 0.03 | 0.03 | 0.02 | -0.21† | 0.05 | 0.03 | 0.08 | 0.06 | -0.01 | 0.03 | -0.01 | | | | | |
| 16: Drift Rate (v) to Positive Words | -0.59** | -0.57** | -0.53** | -0.23* | -0.47** | -0.78** | -0.02 | -0.18 | 0.16 | -0.41** | 0.04 | -0.38** | -0.06 | 0.12 | -0.01 | | | | |
| 17: RT to Positive Words | 0.32** | 0.29* | 0.3* | 0.11 | 0.89** | 0.53** | 0.03 | 0.66** | -0.21† | 0.58** | -0.2 | 0.39** | 0.02 | -0.01 | -0.07 | -0.6** | | | |
| 18: Number of Positive Words Recalled | -0.02 | 0.02 | 0.17 | 0.5* | -0.02 | 0.04 | -0.19 | -0.08 | -0.12 | 0.14 | -0.03 | -0.1 | 0.04 | 0.07 | -0.01 | -0.14 | 0.08 | | |
| 19: Number of Self-Referential Positive Words Recalled | -0.38** | -0.35** | -0.25** | 0.22 | -0.18** | -0.39** | -0.18* | -0.05 | 0.06 | -0.12* | 0.02 | -0.3** | 0.01 | 0.11 | 0.12 | 0.45** | -0.21* | 0.7† | |
| 20: Number of Positive Words Endorsed | -0.6** | -0.54** | -0.55** | -0.23* | -0.3** | -0.63** | -0.05 | 0 | 0.22 | -0.38** | 0.1 | -0.35** | -0.03 | 0.11 | 0.21 | 0.84** | -0.48** | -0.15 | 0.51** |

Table S2.

*Correlation table for SRET outcome variables (numbered in the first column) and depression symptoms (column 1: score on the CES-D) from the MTurk sample. ** = p < .001; * = p < .01; † = p < .05.*

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2: Number of Negative Words Endorsed | 0.74** | | | | | | | | | | | | | | | | | | |
| 3: Number of Self-Referential Negative Words Recalled | 0.63** | 0.8** | | | | | | | | | | | | | | | | | |
| 4: Number of Negative Words Recalled | 0.29* | 0.31* | 0.61** | | | | | | | | | | | | | | | | |
| 5: RT to Negative Words | 0.35** | 0.34** | 0.35* | 0.12 | | | | | | | | | | | | | | | |
| 6: Drift Rate (v) to Negative Words | 0.72** | 0.83** | 0.72** | 0.3* | 0.47** | | | | | | | | | | | | | | |
| 7: Relative Starting Point (zr) for Negative Words | 0.35** | 0.46** | 0.38** | 0.06 | 0.38** | 0.3** | | | | | | | | | | | | | |
| 8: Threshold Separation (a) | -0.04 | -0.08 | -0.16 | -0.22† | 0.59* | 0.01 | 0.14 | | | | | | | | | | | | |
| 9: Differences in Speed of Response Execution (d) | -0.19* | -0.1* | -0.11* | -0.06 | -0.15* | -0.28** | -0.02† | -0.05 | | | | | | | | | | | |
| 10: Response Time Constant (t0) | 0.21** | 0.25* | 0.36** | 0.28* | 0.6** | 0.3** | 0.08† | -0.04 | -0.14* | | | | | | | | | | |
| 11: Inter-Trial-Variability of Drift (sv) | 0.05 | 0.06 | 0.11 | 0.17 | -0.12 | 0.07 | -0.14 | -0.28* | -0.07 | 0.11 | | | | | | | | | |
| 12: Inter-Trial-Variability of Non-Decisional Components (st0) | 0.28* | 0.22* | 0.11† | -0.05 | 0.48** | 0.29* | 0.34** | 0.29† | -0.18* | 0.23* | -0.18 | | | | | | | | |
| 13: Percentage of Contaminants (p) | -0.03 | 0.03 | -0.01 | -0.04 | 0.06 | 0.01 | 0.11 | 0.16 | 0 | -0.08 | -0.19 | 0.02 | | | | | | | |
| 14: Inter-Trial-Variability of Starting Point (szr) | -0.01 | 0 | -0.01 | -0.02 | 0.03 | -0.02 | 0.11 | 0.1 | -0.09 | -0.09 | -0.33* | 0.03 | 0.01 | | | | | | |
| 15: Relative Starting Point (zr) for Positive Words | -0.33** | -0.32** | -0.24** | 0.01 | -0.17** | -0.28** | -0.46** | -0.03 | 0.25* | 0.02† | 0.11 | -0.22** | -0.03 | -0.04 | | | | | |
| 16: Drift Rate (v) to Positive Words | -0.65** | -0.67** | -0.6** | -0.27* | -0.45** | -0.82** | -0.24** | 0.04 | 0.28** | -0.37** | -0.09 | -0.28* | 0.02 | 0.02 | 0.26** | | | | |
| 17: RT to Positive Words | 0.33** | 0.33** | 0.33** | 0.13 | 0.94** | 0.5** | 0.28** | 0.55† | -0.22** | 0.63** | -0.12 | 0.47** | 0.09 | 0.04 | -0.19** | -0.53** | | | |
| 18: Number of Positive Words Recalled | 0.01 | 0.03 | 0.24 | 0.59** | -0.04 | 0.04 | -0.11 | -0.28* | -0.03 | 0.22 | 0.13 | -0.13 | -0.04 | -0.01 | 0.04 | -0.12 | 0.04 | | |
| 19: Number of Self-Referential Positive Words Recalled | -0.34** | -0.35** | -0.2* | 0.31 | -0.22** | -0.37** | -0.25** | -0.13 | 0.11† | -0.06† | 0.04 | -0.2** | -0.05 | 0.02 | 0.25** | 0.4** | -0.2** | 0.74* | |
| 20: Number of Positive Words Endorsed | -0.67** | -0.73** | -0.61** | -0.26* | -0.36** | -0.72** | -0.26** | 0.09 | 0.28* | -0.35** | -0.09 | -0.21* | 0.04 | 0.05 | 0.41** | 0.88** | -0.43** | -0.08 | 0.48** |

Table S3.

*Correlation table for SRET outcome variables (numbered in the first column) and depression symptoms (column 1: score on the CDI:S) from the adolescent sample. ** = p < .001; * = p < .01; † = p < .05.*

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2: Number of Negative Words Endorsed | 0.7** | | | | | | | | | | | | | | | | | | |
| 3: Number of Self-Referential Negative Words Recalled | 0.58** | 0.81** | | | | | | | | | | | | | | | | | |
| 4: Number of Negative Words Recalled | 0.2† | 0.2† | 0.4* | | | | | | | | | | | | | | | | |
| 5: RT to Negative Words | 0.32** | 0.32** | 0.29* | 0.1 | | | | | | | | | | | | | | | |
| 6: Drift Rate (v) to Negative Words | 0.61** | 0.78** | 0.59** | 0.12 | 0.5** | | | | | | | | | | | | | | |
| 7: Relative Starting Point (zr) for Negative Words | 0.2 | 0.2 | 0.14 | 0.07 | 0.27 | 0.02 | | | | | | | | | | | | | |
| 8: Threshold Separation (a) | -0.05 | -0.01 | -0.05 | 0.03 | 0.61** | 0.21 | 0.11 | | | | | | | | | | | | |
| 9: Differences in Speed of Response Execution (d) | -0.05 | -0.06 | 0.01 | 0 | 0 | -0.2† | 0.11 | -0.01 | | | | | | | | | | | |
| 10: Response Time Constant (t0) | 0.24* | 0.17* | 0.23* | 0.07 | 0.59** | 0.22* | -0.08 | 0 | -0.14† | | | | | | | | | | |
| 11: Inter-Trial-Variability of Drift (sv) | 0.03 | 0.02 | -0.01 | 0.01 | -0.09 | 0.01 | -0.18 | -0.21 | -0.1 | 0.15 | | | | | | | | | |
| 12: Inter-Trial-Variability of Non-Decisional Components (st0) | 0.22** | 0.29** | 0.17* | 0 | 0.45** | 0.28** | 0.21 | 0.16 | -0.11 | 0.39** | 0 | | | | | | | | |
| 13: Percentage of Contaminants (p) | 0.04 | 0.01 | -0.04 | 0.04 | 0 | 0.02 | 0 | -0.02 | 0 | 0.06 | 0.11 | 0.07 | | | | | | | |
| 14: Inter-Trial-Variability of Starting Point (szr) | -0.01 | -0.05 | 0.11 | 0.17 | 0.05 | -0.06 | 0.12 | 0.02 | -0.13 | 0.06 | -0.27† | -0.08 | -0.02 | | | | | | |
| 15: Relative Starting Point (zr) for Positive Words | -0.2** | -0.2** | -0.19** | -0.02 | -0.11* | -0.2** | -0.15† | 0.05 | 0.12 | -0.03† | 0.15 | -0.17* | 0.12 | -0.03 | | | | | |
| 16: Drift Rate (v) to Positive Words | -0.56** | -0.54** | -0.46** | -0.16 | -0.48** | -0.65** | -0.03 | -0.2 | 0.04 | -0.32** | -0.07 | -0.31** | -0.13 | -0.03 | 0.06* | | | | |
| 17: RT to Positive Words | 0.29** | 0.26* | 0.25* | 0.1 | 0.86** | 0.47** | 0.06 | 0.6** | -0.15† | 0.61** | -0.08 | 0.42** | 0 | 0.09 | -0.25* | -0.54** | | | |
| 18: Number of Positive Words Recalled | -0.16* | -0.3** | -0.15* | 0.32 | -0.2** | -0.24** | -0.16† | -0.08 | 0 | -0.12† | 0.01 | -0.19** | 0.04 | 0.07 | 0.14† | 0.19* | -0.17* | | |
| 19: Number of Self-Referential Positive Words Recalled | -0.29** | -0.4** | -0.27** | 0.2 | -0.24** | -0.36** | -0.11† | -0.05 | 0.09 | -0.17* | -0.02 | -0.23** | 0.03 | 0.06 | 0.23* | 0.39** | -0.28** | 0.88** | |
| 20: Number of Positive Words Endorsed | -0.61** | -0.58** | -0.52** | -0.18† | -0.33** | -0.59** | -0.02 | 0.05 | 0.25† | -0.3** | -0.06 | -0.26** | -0.05 | 0.09 | 0.31** | 0.73** | -0.42** | 0.2* | 0.48** |