**Supplement**

**Table S1**

*List of Study Measures*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Self-Reports** | | | | |
| Construct |  | Measure | | |
| Overall Narcissism |  | Narcissistic Personality Inventory-15 | | |
| Narcissistic Admiration and Rivalry |  | Narcissistic Admiration and Rivalry Questionnaire | | |
| Power Contingencies |  | Constructed for this study | | |
| Affiliation Contingencies |  | Constructed for this study | | |
| Power and Affiliation Motivation |  | Unified Motive Scales | | |
| **Lab Tasks** | | | | |
| Task |  | Affect Measure | | |
| Power Game (politician) |  | Zygomaticus | Corrugator | Post-Task Self-Reports of Affect |
| Power Imagination Exercise |  | Zygomaticus | Corrugator | Post-Task Self-Reports of Affect |
| Power Images |  | Zygomaticusabc | Corrugator abc | Post-Task Self-Reports of Affectc |
| Affiliation Game (Cyberball) |  | Zygomaticus | Corrugator | Post-Task Self-Reports of Affect |
| Affiliation Imagination Exercise |  | Zygomaticus | Corrugator | Post-Task Self-Reports of Affect |
| Affiliation Images |  | Zygomaticusabc | Corrugator abc | Post-Task Self-Reports of Affectbc |
| **Lab Behaviors** | | | | |
| Type of Behaviors |  | Behaviors Coded | | |
| Power Behaviors |  | brash gestures, loud voice, interrupting experimenter, attempts to dominate the conversation, boasting | | |
| Affiliation Behaviorsb |  | smilingb, relaxed laughterb, social warmthb, is friendlyb,  aims to create pleasant atmosphereb, angry or disgusted facial expression | | |
| **Daily Diaries (Baseline for Post-Task Self-Reports of Affect)** | | | | |
| Construct | | Affect Measure | | |
| Daily Positive and Negative Affect |  | Positive And Negative Affect Schedule | | |

Note. a Reported in Study 2 of Hess et al. (2017). b Reported in Dufner et al. (2015). c Reported in Dufner et al. (2018)

Validity Assessment of Self-Reported Affective Reactivity Measures

To examine the validity of our self-reported affective reactivity measures, we first examined the structure of the scales and then we correlated them with the Unified Motive Scales (Schönbrodt & Gerstenberg, 2012).

*Factor Analysis*

First, we ran a parallel analysis (Zwick & Velicer, 1986) which indicated the existence of four factors (Figure S1), and then conducted a factor analysis with Maximum Likelihood Estimation and Oblimin Rotation extracting four factors (Table S2). The results suggested that scale items loaded most strongly on their intended factors (with one exception and a few cross-loadings in power and affiliation frustration). All power satisfaction reactivity items most strongly loaded on a “power satisfaction” factor. All affiliation satisfaction reactivity items most strongly loaded on an “affiliation satisfaction” factor. Power frustration reactivity items most strongly loaded on two factors. All items loaded on a “power frustration factor”, and two items also loaded on an “affiliation frustration” factor. Three affiliation frustration items loaded on an “affiliation frustration” factor, another item loaded most strongly on the affiliation satisfaction and the power frustration factor. One item had no strong loadings on any factor but had low loadings on the affiliation frustration and the affiliation satisfaction factor.

The four factors accounted for 49% of variance in item responses (affiliation frustration: 12.8%; power satisfaction: 13.8%; affiliation satisfaction: 11.6%; power frustration: 10.8%). The power satisfaction factor was moderately positively correlated with the power frustration factor (*r* = .38) and showed smaller correlations with the affiliation satisfaction (*r* = .15) and frustration (*r* = .24) factors. The affiliation satisfaction factor was positively correlated with the affiliation frustration factor (*r* = .28) and showed smaller correlations with the power frustration (*r* = .15) factor. Finally, the affiliation frustration factor was highly positively correlated with the power frustration factor (*r* = .52).

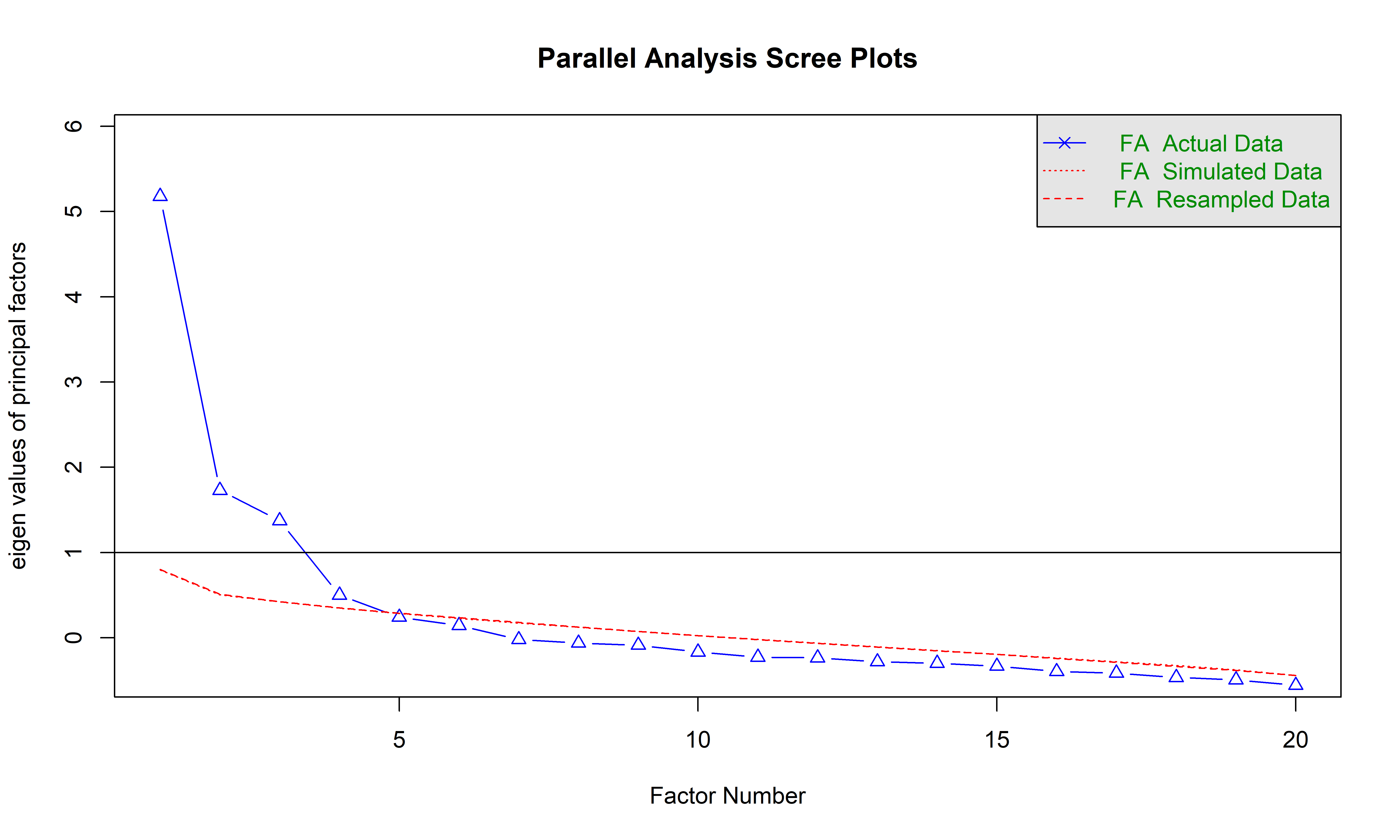
Taken together, these results suggest that scale items loaded most strongly on their intended factors, though somewhat more clearly so in the case of motive satisfaction than motive frustration, which were also rather highly correlated.

*Correlation With the Unified Motive Scales*

Second, we correlated the self-reported motive reactivity scales with self-reported power and affiliation motives measured via the Unified Motive Scales. Power satisfaction reactivity was significantly positively associated with the power motive, *r* = .65, *p* <.001, 95% CI [.56, .72], and, to a lesser degree, with the affiliation motive, *r* = .16, *p* = .018, 95% CI [.03, .29]. Power frustration reactivity was positively associated with the power motive, *r* = .29, *p* <.001, 95% CI [.16, .41], and non-significantly associated with the affiliation motive, *r* =.12, *p* = .092, 95% CI [-.02, .25]. Affiliation satisfaction reactivity was positively associated with the affiliation motive, *r* = .41, *p* <.001, 95% CI [.28, .51], and non-significantly associated with the power motive, *r* =.09, *p* = .175, 95% CI [-.04, .23]. Finally, affiliation frustration reactivity was significantly positively associated with the affiliation motive, *r* = .31, *p* <.001, 95% CI [.19, .43], and to a lesser degree, with the power motive, *r* =.15, *p* = .028, 95% CI [.02, .28]. These results suggest that our self-reported affective contingencies measures converged with existing scales, which also speaks for the validity of the new scales.

Figure S1

*Scree Plot Illustrating Parallel Factor Analysis With 300 Iterations for Self-Reported Motive Reactivity Items*



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table S2** |  |  |  |  |
| *Results of Exploratory Factor Analysis on Self-Reports of Power and Affiliation Reactivity* | | | |  |
|  | Factor 1  (Affiliation Frustration)  Loadings | Factor 2  (Power Satisfaction)  Loadings | Factor 3  (Affiliation Satisfaction)  Loadings | Factor 4  (Power Frustration)  Loadings |
| Power Satisfaction |  |  |  |  |
| When I notice how others let me guide them, I feel really great | -0.047 | **0.825** | 0.125 | -0.036 |
| When others follow my lead, I feel important and meaningful | -0.047 | **0.589** | 0.143 | 0.157 |
| When I can influence an entire group of people, I feel good | 0.042 | **0.836** | -0.018 | -0.059 |
| When I can control the work of others according to my wishes, I feel very comfortable. | -0.027 | **0.649** | -0.114 | 0.120 |
| When I am given an influential position, I really enjoy it. | 0.021 | **0.536** | -0.052 | -0.067 |
| Power Frustration |  |  |  |  |
| When others ignore my opinion, I feel meaningless | 0.029 | -0.007 | 0.109 | **0.690** |
| When other people do not take my opinion seriously, I feel bad. | -0.023 | -0.013 | 0.052 | **0.810** |
| When others do not listen to me, I get frustrated | **0.340** | 0.184 | -0.223 | **0.354** |
| When I have no influence, I feel uncomfortable. | **0.341** | 0.161 | -0.296 | **0.341** |
| If someone does not listen to my opinion, it annoys me. | 0.195 | 0.246 | -0.153 | **0.440** |
| Affiliation Satisfaction |  |  |  |  |
| When I make new friends, I feel very happy. | -0.015 | 0.148 | **0.460** | 0.032 |
| When other people let me know that they value me as a person, that makes me happy. | 0.099 | 0.112 | **0.734** | -0.075 |
| If someone shows up just because they thought of me, that touches me very much. | 0.020 | 0.054 | **0.538** | 0.150 |
| When another person shows me that they really like me, I feel really good. | 0.078 | -0.040 | **0.585** | 0.095 |
| When others express that they like to be around me, that makes me happy. | 0.098 | 0.017 | **0.631** | 0.090 |
| Affiliation Frustration |  |  |  |  |
| When I have no one to confide in, I feel lost. | 0.045 | -0.080 | **0.408** | **0.363** |
| When I have little contact with other people, it makes me sad. | 0.204 | 0.056 | 0.224 | 0.189 |
| When others do not like me, it makes me unhappy. | **0.757** | 0.047 | 0.034 | 0.050 |
| When other people avoid me, it makes me unhappy. | **0.736** | 0.053 | 0.074 | -0.001 |
| If someone signals to me that he or she does not like me, it hits me very hard. | **0.904** | -0.093 | 0.046 | -0.046 |
| *Note.* Loadings above .30 in **bold**. |  |  |  |  |

Validity Assessment of Lab Tasks

To examine the validity of our lab tasks, we first examined their motive content in three pilot studies. We piloted all lab tasks except for the power and affiliation frustration images. Second, we correlated fEMG indices with post-task self-reports of affect from our study.

*Pilot Studies on Lab Task Motive Content*

Pilot 1. The power game, the affiliation game, and the affiliation imagination task were piloted in a sample of 133 participants, each of whom participated in a part of the experimental procedure. After each task, participants rated on 6-point Likert scales (1 = not at all, to 6 = very much) how much the content of each task dealt with topics related to power (3 items: “power”/”powerlessness”, “control / loss of control”, “having influence/being influenced”) and affiliation (3 items: “human closeness/social distance”, “finding affiliation/being socially rejected”, “being connected to others/being separated from others“). Per task and motive domain, we averaged the scores across items to create indices of power and affiliation content.

Pilot 2. Pilot 1 included a power imagination task that did not adequately tap power content, so we conducted a second pilot study with another sample of 32 participants using a similar procedure as in pilot 1. In pilot 2, we tested the motive content of the imagination exercise that we used in the present study.

Pilot 3. We piloted the power and affiliation satisfaction images in a sample of 26 undergraduate students and research assistants (65% women; age *M =* 23.04 years, *SD* = 4.98). After viewing each image, participants rated how much the image had content related to affiliation (affiliation and intimacy) or power-related (power and control) on 4-point Likert scales (1= *does not have to do with it at all*, to 4 = *has a lot to do with it*). Per motive domain, we averaged these scores to create indices of power and affiliation content.

Results. We examined the differences in the ratings for power vs affiliation content per task via paired t-tests (Table S3). The results suggested that tasks most strongly tapped the motive domain they were designed for.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table S3** |  |  |  |  |  |  |
| *Mean Comparisons of Power and Affiliation Content Ratings for Lab Tasks in the Pilot Study* | | | | | | |
|  | Power Content | | Affiliation Content | |  |  |
|  | M | SD | M | SD | df | t |
| Power Tasks |  |  |  |  |  |  |
| Game | 3.92 | 1.29 | 2.85 | 1.15 | 58 | 5.86\*\*\* |
| Imagination Exercise | 5.12 | 0.98 | 3.24 | 1.13 | 31 | 8.68\*\*\* |
| Satisfaction Images | 3.50 | 0.32 | 2.16 | 0.51 | 25 | 12.55\*\*\* |
| Affiliation Tasks |  |  |  |  |  |  |
| Game | 2.99 | 1.17 | 3.85 | 1.65 | 60 | -4.27\*\*\* |
| Imagination Exercise | 3.07 | 1.24 | 4.90 | 1.22 | 62 | -10.40\*\*\* |
| Satisfaction Images | 1.38 | 0.33 | 3.93 | 0.17 | 25 | -30.61\*\*\* |

*Note: \*\*\*p < .001*

*Convergent Validity of fEMG Indexed Contingencies*

After each lab task, participants rated how much positive and negative affect they experienced during the task (1 = *not at all*, to 5 = *very much*). In the case of the games and imagination exercises, the items that participants responded to did not distinguish affective experiences in specific parts (e.g., satisfaction/frustration) of the tasks, thus referring to each task as a whole. In the case of images, these items were answered after viewing each satisfying and frustrating image, and responses were averaged across items per type of affect (positive or negative) and image (e.g., power satisfaction). Reliability of positive affect was acceptable for power satisfaction images (*M =* 2.32, *SD =* 0.74, *a* = .60), but lower for power frustration images (*M =* 1.26, *SD =* 0.38, *a* = .54). In contrast, reliability of negative affect was low for power satisfaction images (*M =* 1.69, *SD =* 0.54, *a =* .52), but good for power frustration images (*M =* 3.22, *SD =* 0.76, *a =* .70). Reliability of positive affect was good for both affiliation satisfaction (*M =* 3.63, *SD =* 0.77, *a =* .78) and frustration (*M =* 1.29, *SD =* 0.44, *a =* .70) images. Finally, reliability of negative affect was low for affiliation satisfaction images (*M =* 1.24, *SD =* 0.33, *a =* .45), but good for affiliation frustration images (*M =* 3.19, *SD =* 0.80, *a =* .76).

Before correlating self-reports of affect after the tasks with fEMG indexed contingencies, we sought to isolate task-specific affective responses from participants’ affect response tendencies. We first created a baseline for participants’ affect response tendencies by using participants’ daily diary data on positive and negative affect. Each day for 14 (not necessarily consecutive) days, participants completed the 20-item Positive and Negative Affect Schedule (PANAS; Watson, Clark, & Tellegen, 1988). The PANAS measures, with 10 adjectives each, positive affect(e.g., “enthusiastic”), and negative affect(e.g., “distressed”)*.* Participants were asked daily to rate how they felt on that day on 5-point scales (1 = *very slightly or not at all*, 5 = *extremely*). Daily ratings of participants with fully complete daily diary affect data were averaged across days and adjectives, separately for positive (*M =* 2.71*, SD =* .52, *α =*.94) and negative (*M =* 1.56*, SD=* .36, *α =*.91) affect. To isolate task-specific affective responses from participants’ affect response tendencies, we computed baseline-corrected positive and negative self-reported affect for each task by partialing out, respectively, the average positive and negative affect reported in daily diaries. Correlations of fEMG contingencies with corresponding self-reports of affect after each task are found in Table S2.

**Table S4**

*Correlations and Confidence Intervals Between fEMG Indexed Contingencies and Self-reported Affect Following Each Task*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Positive Affect | | Negative Affect | |
| Task | Task Part | Zygomaticus | Corrugator | Zygomaticus | Corrugator |
| Power Game | Satisfaction | .19\*\* | -.16\* | -.09 | .10 |
|  | [.05, .33] | [-.30, -.02] | [-.23, .06] | [-.05, .24] |
| Frustration | .18\* | -.20\*\* | -.05 | .21\*\* |
|  | [.04, .32] | [-.33, -.06] | [-.19, .10] | [.07, .34] |
| Affiliation Game | Satisfaction | .15\* | -.18\* | -.07 | .01 |
|  | [.01, .29] | [-.32, -.04] | [-.21, .08] | [-.13, .16] |
| Frustration | .29\*\* | -.21\*\* | -.05 | .07 |
|  | [.16, .42] | [-.35, -.07] | [-.19, .09] | [-.08, .21] |
| Power Story | Satisfaction | .17\* | -.25\*\* | -.01 | .02 |
|  | [.03, .31] | [-.38, -.11] | [-.15, .14] | [-.12, .17] |
| Frustration | .16\* | -.10 | .01 | -.02 |
|  | [.02, .30] | [-.24, .04] | [-.13, .16] | [-.16, .13] |
| Affiliation Story | Satisfaction | .10 | -.10 | -.09 | .04 |
|  | [-.04, .24] | [-.24, .04] | [-.23, .05] | [-.11, .18] |
| Frustration | .08 | -.09 | -.02 | -.03 |
|  | [-.06, .23] | [-.24, .05] | [-.17, .12] | [-.17, .12] |
| Power Images | Satisfaction | .13 | -.14 | -.12 | .13 |
|  | [-.02, .26] | [-.27, .01] | [-.26, .02] | [-.01, .27] |
| Frustration | -.19 | .00 | .08 | .03 |
|  | [-.32, -.04] | [-.14, .15] | [-.06, .23] | [-.12, .17] |
| Affiliation Images | Satisfaction | .15\* | -.09 | -.12 | .05 |
|  | [.00, .29] | [-.23, .06] | [-.26, .02] | [-.09, .19] |
| Frustration | -.03 | -.06 | -.02 | -.02 |
|  | [-.17, .11] | [-.20, .09] | [-.17, .12] | [-.16, .13] |

*Note*. \* *p* < .05, \*\* *p* < .01. Values in square brackets indicate the 95% confidence interval for each correlation.

Participant Attrition Analyses

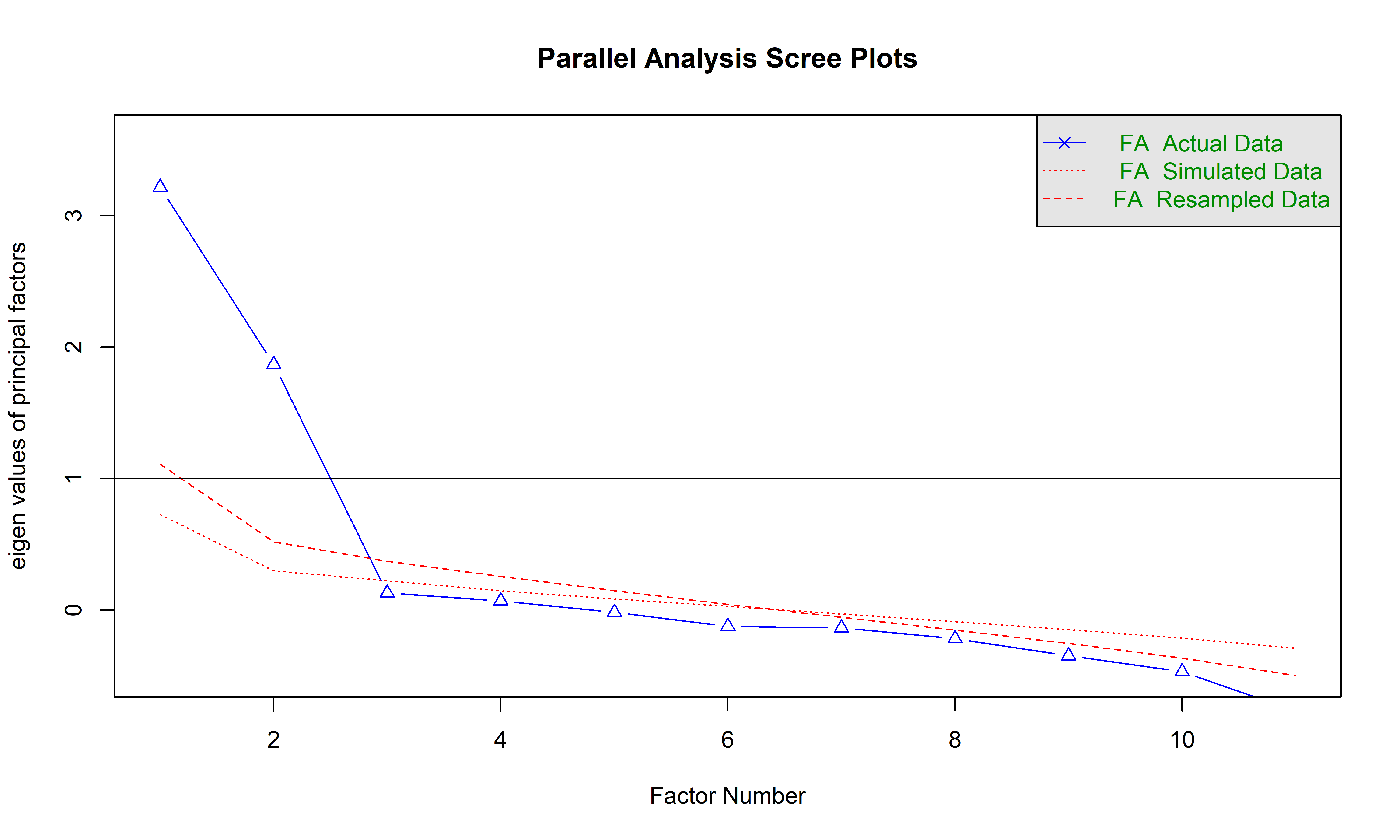
We examined whether participants who attended the follow-up lab session differed significantly from those that did not attend in terms demographics and our main variables.

There were no significant differences in terms of age, gender, ethnicity, overall narcissism, narcissistic admiration, narcissistic rivalry, and most self-reported and fEMG reactivity indices, *ps ≥ .115*, with only four exceptions linking attrition to lower affective reactivity. Compared to participants that attended second laboratory session, participants that did not attend exhibited (a) lower levels of self-reported positive power reactivity (drop-outs *M* = 3.02, *SD* = 0.85; attendees *M* = 3.39, *SD* = 0.76), *t*(32.496) = -2.14, *p* = .040, (b) lower levels of zygomaticus reactivity in the power imagination exercise in response to both satisfying experiences (drop-outs *M* = -0.07, *SD* = 0.16; attendees *M* = 0.01, *SD* = 0.23), *t*(39.601) = -2.07, *p* = .045, and (c) frustrating experiences (drop-outs *M* = -0.07, *SD* = 0.14; attendees *M* = 0.01, *SD* = 0.24), *t*(48.055) = -2.52, *p* = .015, and (d) lower levels of zygomaticus reactivity in response to affiliation satisfaction images (drop-outs *M* = -0.15, *SD* = 0.28; attendees *M* = 0.02, *SD* = 0.46), *t*(45.826) = -2.62, *p* = .012. These differences became statistically non-significant when tested against a lower level of statistical significance with a Bonferroni correction (corrected a = .05/34 = .001).

Thus, participants that attended the second lab session largely did not differ from those that did not attend. There were a few tentative signs that attrition might have been related to lower positive motive reactivity, though these findings were not robust and might have thus been owed to chance.

Figure S2

*Scree Plot Illustrating Parallel Factor Analysis With 300 Iterations for Observed Behavior Codings*



|  |  |  |  |
| --- | --- | --- | --- |
| **Table S5** |  |  |  |
| *Inter-rater Agreement (Intraclass Correlation Coefficient) and Exploratory Factor Analysis for Codings of Interpersonal Behavior* | | | |
|  | ICC | Factor 1 (Power) Loadings | Factor 2 (Affiliation) Loadings |
| brash gestures | .88 | **0.532** | 0.223 |
| dominates conversation | .68 | **0.982** | -0.035 |
| boasting | .71 | **0.689** | -0.043 |
| loud voice | .79 | **0.603** | 0.104 |
| disrupts experimenter | .64 | **0.417** | 0.032 |
| anger/disgust (reverse coded) | .46 | -0.277 | **0.386** |
| smiling | .77 | 0.043 | **0.674** |
| relaxed laughter | .80 | 0.041 | **0.532** |
| warm voice | .71 | -0.157 | **0.754** |
| friendly | .70 | -0.026 | **0.956** |
| creates pleasant atmosphere | .71 | 0.121 | **0.877** |
| *Note.* Loadings above .30 in **bold**. | | | |

**Table S6**

*Means, Standard Deviations, and Correlations With Confidence Intervals of all Variables in the Study*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | |  | *M* | *SD* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 | | 34 | | 35 | | 36 | | 37 | | 38 | | 39 | | 40 | | 41 | | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | | 49 | | 50 | | 51 | | 52 | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1. Overall Narcissism (NPI) | |  | 1.34 | 0.23 |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 2. Narcissistic Admiration | |  | 3.43 | 0.84 | .67\*\* |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [.59, .74] |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 3. Narcissistic Rivalry | |  | 2.35 | 0.84 | .29\*\* | .36\*\* |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [.16, .41] | [.24, .47] |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 4. Power Satisfaction S-R | |  | 3.34 | 0.78 | .49\*\* | .52\*\* | .45\*\* |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [.37, .58] | [.41, .61] | [.33, .55] |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 5. Power Frustration S-R | |  | 3.1 | 0.74 | 0.13 | 0.1 | .31\*\* | .42\*\* |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.01, .26] | [-.03, .24] | [.18, .43] | [.30, .53] |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 6. Affiliation Satisfaction S-R | |  | 4.39 | 0.51 | 0 | 0.08 | 0.02 | .24\*\* | .23\*\* |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.13, .14] | [-.05, .22] | [-.12, .15] | [.11, .37] | [.09, .35] |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 7. Affiliation Frustration S-R | |  | 3.37 | 0.79 | 0.04 | 0.04 | .19\*\* | .24\*\* | .57\*\* | .47\*\* |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.10, .18] | [-.10, .18] | [.06, .32] | [.11, .37] | [.47, .66] | [.35, .57] |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 8. Power Satisfaction, Game, Zygo | |  | 0 | 0.34 | 0.01 | -0.01 | -0.04 | -0.13 | -0.12 | 0.05 | -0.05 |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.13, .15] | [-.14, .13] | [-.18, .10] | [-.27, .01] | [-.26, .02] | [-.09, .19] | [-.19, .09] |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 9. Power Satisfaction, Imagination, Zygo | |  | 0 | 0.23 | -0.05 | -0.1 | 0.06 | 0.13 | 0.05 | 0.1 | 0.02 | 0.01 |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.19, .09] | [-.24, .04] | [-.08, .20] | [-.01, .26] | [-.09, .19] | [-.04, .23] | [-.12, .16] | [-.12, .15] |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 10. Power Satisfaction, Images, Zygo | |  | 0 | 0.38 | -0.05 | -0.06 | -0.13 | -0.01 | 0 | 0.01 | .23\*\* | -0.02 | -0.02 |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.19, .09] | [-.20, .08] | [-.27, .01] | [-.15, .13] | [-.14, .14] | [-.13, .15] | [.09, .36] | [-.16, .11] | [-.16, .12] |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 11. Power Satisfaction, Game, Corr | |  | 0 | 0.26 | -0.01 | 0 | -0.08 | -0.04 | -0.01 | 0.03 | -0.02 | -.21\*\* | -0.09 | 0.01 |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.15, .13] | [-.14, .13] | [-.21, .06] | [-.18, .10] | [-.15, .13] | [-.11, .17] | [-.16, .12] | [-.34, -.07] | [-.23, .05] | [-.12, .15] |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 12. Power Satisfaction, Imagination, Corr | |  | 0 | 0.32 | 0.04 | -0.01 | -0.09 | -0.04 | -0.01 | 0.02 | 0.06 | -0.01 | -0.03 | 0.08 | -.15\* |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.10, .18] | [-.15, .13] | [-.22, .05] | [-.18, .09] | [-.15, .13] | [-.12, .16] | [-.08, .19] | [-.15, .13] | [-.17, .11] | [-.06, .22] | [-.29, -.02] |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 13. Power Satisfaction, Images, Corr | |  | 0 | 0.26 | -0.14 | -0.07 | -0.02 | -0.02 | .22\*\* | 0.1 | 0.12 | 0.01 | 0.01 | 0.02 | 0.01 | 0.06 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.27, .00] | [-.21, .07] | [-.16, .12] | [-.16, .11] | [.09, .35] | [-.04, .23] | [-.01, .26] | [-.13, .15] | [-.13, .15] | [-.11, .16] | [-.13, .14] | [-.08, .20] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 14. Power Frustration, Game, Zygo | |  | 0 | 0.41 | -.16\* | -.20\*\* | -.17\* | -.17\* | 0.03 | -0.02 | 0.13 | .20\*\* | 0.14 | .19\*\* | -.15\* | 0.01 | | -0.12 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.29, -.02] | [-.33, -.06] | [-.30, -.03] | [-.30, -.03] | [-.11, .16] | [-.16, .12] | [-.01, .27] | [.06, .33] | [-.00, .27] | [.05, .32] | [-.28, -.01] | [-.13, .15] | | [-.25, .02] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 15. Power Frustration, Imagination, Zygo | |  | 0 | 0.23 | 0 | -0.07 | 0.11 | 0.08 | 0.02 | 0.09 | 0.09 | -0.06 | .53\*\* | -0.02 | -0.01 | -0.11 | | -0.04 | | -0.02 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.13, .14] | [-.20, .07] | [-.03, .25] | [-.06, .21] | [-.12, .16] | [-.05, .23] | [-.05, .23] | [-.20, .08] | [.42, .62] | [-.16, .12] | [-.14, .13] | [-.25, .03] | | [-.18, .10] | | [-.16, .12] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 16. Power Frustration, Images, Zygo | |  | 0 | 0.17 | 0.02 | 0.04 | 0.03 | 0.01 | -0.05 | -0.01 | -0.08 | 0.05 | -0.12 | .16\* | -0.05 | -0.02 | | -0.04 | | 0.04 | | -0.1 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.12, .15] | [-.10, .18] | [-.11, .17] | [-.13, .15] | [-.18, .09] | [-.14, .13] | [-.21, .06] | [-.09, .19] | [-.26, .02] | [.02, .29] | [-.18, .09] | [-.16, .12] | | [-.17, .10] | | [-.10, .18] | | [-.24, .03] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| 17. Power Frustration, Game, Corr | |  | 0 | 0.29 | 0.09 | 0.03 | 0.04 | 0.07 | 0.04 | -0.06 | -0.04 | -.14\* | -0.07 | -0.01 | .63\*\* | -0.09 | | 0.07 | | -.31\*\* | | 0.07 | | -0.07 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.05, .22] | [-.11, .17] | [-.10, .18] | [-.07, .20] | [-.10, .18] | [-.19, .08] | [-.18, .10] | [-.28, -.00] | [-.20, .07] | [-.15, .13] | [.54, .71] | [-.23, .05] | | [-.07, .20] | | [-.43, -.18] | | [-.07, .20] | | [-.21, .06] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 18. Power Frustration, Imagination, Corr | |  | 0 | 0.24 | 0.08 | 0.07 | -0.08 | 0 | -0.06 | 0.04 | -0.04 | 0.05 | 0.02 | -0.03 | -.19\*\* | .83\*\* | | -0.05 | | 0.05 | | -0.12 | | 0.03 | | -0.12 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.06, .22] | [-.07, .20] | [-.22, .06] | [-.14, .14] | [-.20, .08] | [-.10, .18] | [-.18, .10] | [-.09, .18] | [-.12, .16] | [-.17, .11] | [-.32, -.06] | [.79, .87] | | [-.19, .09] | | [-.08, .19] | | [-.25, .02] | | [-.11, .17] | | [-.26, .02] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 19. Power Frustration, Images, Corr | |  | 0 | 0.18 | -0.1 | -0.03 | -0.05 | -0.08 | 0.08 | 0.07 | 0.09 | -0.03 | 0.03 | 0.07 | -0.04 | 0.07 | | .26\*\* | | 0.05 | | 0.03 | | -0.07 | | -0.05 | | 0.07 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.23, .04] | [-.16, .11] | [-.18, .09] | [-.22, .06] | [-.06, .22] | [-.07, .21] | [-.05, .23] | [-.16, .11] | [-.11, .16] | [-.07, .21] | [-.18, .10] | [-.07, .20] | | [.13, .39] | | [-.09, .18] | | [-.11, .17] | | [-.21, .07] | | [-.19, .09] | | [-.07, .21] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 20. Affiliation Satisfaction, Game, Zygo | |  | 0 | 0.36 | -0.04 | -0.06 | -.18\* | -.25\*\* | -.14\* | -.17\* | -0.13 | -0.04 | -0.12 | -0.04 | -0.03 | 0.08 | | 0.06 | | 0.11 | | -0.14 | | -0.1 | | -0.04 | | .15\* | | .15\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.18, .10] | [-.20, .08] | [-.31, -.04] | [-.38, -.12] | [-.27, -.00] | [-.31, -.04] | [-.27, .01] | [-.17, .10] | [-.25, .02] | [-.17, .10] | [-.17, .11] | [-.06, .21] | | [-.08, .20] | | [-.03, .24] | | [-.27, .00] | | [-.24, .03] | | [-.17, .10] | | [.01, .28] | | [.01, .28] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 21. Affiliation Satisfaction, Imagination, Zygo | |  | 0 | 0.28 | 0.01 | 0.06 | -0.03 | 0.01 | 0.01 | 0.03 | 0.1 | -0.01 | 0.09 | -0.05 | 0.01 | -0.11 | | 0.09 | | -0.04 | | 0.09 | | -0.06 | | 0.02 | | -0.12 | | 0.09 | | -0.02 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.13, .15] | [-.08, .19] | [-.17, .11] | [-.13, .15] | [-.13, .15] | [-.11, .17] | [-.04, .23] | [-.15, .12] | [-.05, .23] | [-.18, .09] | [-.13, .15] | [-.24, .03] | | [-.05, .23] | | [-.17, .10] | | [-.05, .22] | | [-.20, .08] | | [-.12, .16] | | [-.25, .02] | | [-.05, .22] | | [-.16, .12] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 22. Affiliation Satisfaction, Images, Zygo | |  | 0 | 0.45 | -0.06 | -0.08 | -.15\* | 0.03 | 0.05 | 0.05 | 0.03 | -0.03 | 0.08 | .44\*\* | -0.01 | 0 | | 0.09 | | 0.1 | | -0.01 | | .17\* | | 0.01 | | -0.05 | | -0.05 | | 0.05 | | 0.01 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.20, .08] | [-.22, .06] | [-.28, -.01] | [-.11, .17] | [-.09, .19] | [-.09, .19] | [-.11, .16] | [-.17, .11] | [-.06, .22] | [.32, .54] | [-.15, .13] | [-.14, .14] | | [-.05, .23] | | [-.04, .24] | | [-.15, .13] | | [.03, .30] | | [-.13, .15] | | [-.19, .09] | | [-.18, .09] | | [-.09, .19] | | [-.13, .15] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 23. Affiliation Satisfaction, Game, Corr | |  | 0 | 0.31 | 0.04 | 0.02 | 0.08 | 0.09 | -0.03 | -0.04 | -0.01 | -0.01 | 0.07 | 0.03 | -0.1 | -.21\*\* | | -0.09 | | 0.02 | | 0.12 | | 0.01 | | -0.07 | | -.23\*\* | | -.14\* | | -.32\*\* | | -0.07 | | -0.05 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.10, .17] | [-.12, .16] | [-.06, .21] | [-.05, .23] | [-.17, .11] | [-.17, .10] | [-.15, .13] | [-.15, .13] | [-.07, .21] | [-.11, .17] | [-.23, .04] | [-.33, -.07] | | [-.23, .05] | | [-.12, .15] | | [-.02, .26] | | [-.13, .14] | | [-.20, .07] | | [-.35, -.09] | | [-.27, -.00] | | [-.44, -.19] | | [-.21, .07] | | [-.19, .09] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 24. Affiliation Satisfaction, Imagination, Corr | |  | 0 | 0.26 | 0.08 | 0.03 | 0.03 | -0.03 | 0.04 | -0.02 | -0.04 | 0.09 | 0 | -0.04 | -0.08 | .49\*\* | | -0.11 | | 0.05 | | -0.05 | | 0.01 | | -0.07 | | .48\*\* | | -0.07 | | 0.09 | | -0.11 | | -0.04 | | -.19\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.06, .22] | [-.11, .17] | [-.11, .17] | [-.17, .11] | [-.10, .18] | [-.16, .12] | [-.18, .10] | [-.05, .23] | [-.14, .14] | [-.18, .10] | [-.22, .06] | [.37, .59] | | [-.25, .03] | | [-.09, .18] | | [-.19, .09] | | [-.13, .15] | | [-.21, .07] | | [.37, .58] | | [-.21, .07] | | [-.05, .23] | | [-.24, .03] | | [-.18, .10] | | [-.32, -.05] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 25. Affiliation Satisfaction, Images, Corr | |  | 0 | 0.22 | -0.12 | -0.04 | 0.13 | -0.11 | -0.01 | -0.12 | 0.01 | -0.05 | -0.04 | 0 | -0.1 | -0.01 | | .29\*\* | | -0.06 | | -0.06 | | 0.11 | | -0.11 | | -0.05 | | .21\*\* | | -0.07 | | 0 | | -.26\*\* | | 0 | | 0.02 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.26, .02] | [-.18, .10] | [-.01, .27] | [-.25, .03] | [-.15, .13] | [-.25, .02] | [-.13, .14] | [-.19, .09] | [-.18, .10] | [-.14, .14] | [-.24, .04] | [-.15, .12] | | [.15, .41] | | [-.20, .08] | | [-.20, .08] | | [-.03, .25] | | [-.25, .03] | | [-.18, .09] | | [.08, .34] | | [-.20, .07] | | [-.14, .14] | | [-.39, -.13] | | [-.14, .14] | | [-.12, .16] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 26. Affiliation Frustration, Game, Zygo | |  | 0 | 0.59 | -0.04 | -0.04 | -.15\* | -.19\*\* | -0.07 | -0.08 | -0.1 | -0.08 | -0.05 | -0.02 | 0.01 | .22\*\* | | 0.02 | | 0.06 | | -0.06 | | -.17\* | | 0 | | .21\*\* | | 0.01 | | .57\*\* | | 0.01 | | 0.08 | | -.23\*\* | | .20\*\* | | -.16\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.18, .09] | [-.18, .10] | [-.28, -.01] | [-.32, -.06] | [-.21, .07] | [-.22, .06] | [-.24, .04] | [-.22, .06] | [-.19, .09] | [-.16, .12] | [-.13, .14] | [.08, .35] | | [-.12, .16] | | [-.07, .20] | | [-.20, .08] | | [-.30, -.03] | | [-.14, .14] | | [.07, .34] | | [-.13, .15] | | [.47, .66] | | [-.13, .15] | | [-.06, .22] | | [-.36, -.09] | | [.07, .33] | | [-.30, -.03] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 27. Affiliation Frustration, Imagination, Zygo | |  | 0 | 0.17 | 0 | 0.01 | -0.01 | -0.07 | 0 | -0.04 | 0.03 | -0.02 | 0.13 | 0.02 | 0.05 | -0.1 | | 0.01 | | -0.02 | | 0.1 | | -0.08 | | 0.03 | | -0.09 | | 0.08 | | -0.02 | | .57\*\* | | -0.01 | | -0.07 | | -0.04 | | 0.02 | | 0.08 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.14, .14] | [-.13, .15] | [-.15, .13] | [-.21, .07] | [-.14, .14] | [-.18, .10] | [-.11, .17] | [-.16, .12] | [-.01, .27] | [-.12, .15] | [-.09, .19] | [-.23, .04] | | [-.13, .15] | | [-.15, .12] | | [-.03, .24] | | [-.21, .06] | | [-.11, .16] | | [-.23, .04] | | [-.06, .22] | | [-.16, .12] | | [.47, .66] | | [-.15, .12] | | [-.21, .07] | | [-.17, .10] | | [-.12, .16] | | [-.05, .22] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 28. Affiliation Frustration, Images, Zygo | |  | 0 | 0.16 | -0.04 | 0 | 0.01 | 0.01 | 0 | -0.02 | -0.01 | -0.08 | -0.08 | 0.1 | -0.05 | -0.12 | | 0.01 | | -0.07 | | -0.07 | | .33\*\* | | 0 | | -0.1 | | -0.03 | | -0.11 | | -0.04 | | .15\* | | 0.11 | | -0.02 | | 0.11 | | -.18\* | | -0.1 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.18, .10] | [-.14, .14] | [-.13, .15] | [-.13, .15] | [-.14, .14] | [-.16, .12] | [-.15, .13] | [-.22, .06] | [-.22, .06] | [-.04, .24] | [-.19, .09] | [-.26, .02] | | [-.13, .15] | | [-.21, .07] | | [-.21, .07] | | [.20, .45] | | [-.14, .14] | | [-.24, .04] | | [-.16, .11] | | [-.24, .03] | | [-.18, .10] | | [.01, .28] | | [-.03, .24] | | [-.16, .12] | | [-.03, .24] | | [-.31, -.04] | | [-.24, .04] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 29. Affiliation Frustration, Game, Corr | |  | 0 | 0.37 | 0.04 | 0.05 | 0.07 | 0.09 | 0.06 | -0.02 | 0.06 | 0.13 | 0.03 | 0.07 | -0.12 | -.18\* | | .21\*\* | | -0.02 | | -0.02 | | 0.01 | | -0.03 | | -.17\* | | -0.12 | | -.21\*\* | | 0.01 | | -0.05 | | .64\*\* | | -.20\*\* | | 0.05 | | -.36\*\* | | -0.07 | | 0.07 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.10, .18] | [-.09, .19] | [-.06, .21] | [-.05, .22] | [-.08, .20] | [-.16, .12] | [-.07, .20] | [-.01, .26] | [-.11, .16] | [-.07, .21] | [-.25, .02] | [-.31, -.04] | | [.08, .34] | | [-.16, .12] | | [-.16, .12] | | [-.13, .15] | | [-.17, .11] | | [-.30, -.03] | | [-.25, .02] | | [-.34, -.07] | | [-.13, .15] | | [-.19, .08] | | [.55, .72] | | [-.33, -.06] | | [-.08, .19] | | [-.47, -.23] | | [-.21, .07] | | [-.07, .20] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 30. Affiliation Frustration, Imagination, Corr | |  | 0 | 0.26 | 0.07 | 0.04 | 0.02 | 0.01 | 0.04 | 0 | -0.01 | 0.1 | 0.04 | -0.05 | -0.07 | .46\*\* | | -0.13 | | 0.08 | | -0.08 | | -0.01 | | -0.07 | | .49\*\* | | -0.04 | | 0.11 | | -0.08 | | 0.01 | | -.23\*\* | | .85\*\* | | -0.02 | | .23\*\* | | -0.01 | | 0.01 | | -.24\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.07, .21] | [-.10, .18] | [-.12, .16] | [-.13, .15] | [-.10, .18] | [-.14, .14] | [-.14, .13] | [-.04, .24] | [-.10, .18] | [-.18, .09] | [-.20, .07] | [.35, .57] | | [-.27, .01] | | [-.06, .22] | | [-.22, .06] | | [-.15, .13] | | [-.20, .07] | | [.38, .59] | | [-.18, .10] | | [-.02, .25] | | [-.22, .06] | | [-.13, .15] | | [-.36, -.10] | | [.81, .89] | | [-.16, .12] | | [.09, .36] | | [-.15, .13] | | [-.13, .15] | | [-.37, -.11] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 31. Affiliation Frustration, Images, Corr | |  | 0 | 0.15 | -0.02 | 0.03 | 0.03 | 0 | 0.11 | .16\* | .14\* | 0.04 | 0.06 | 0.02 | -0.1 | -0.07 | | .20\*\* | | 0.09 | | 0.08 | | -0.01 | | -0.1 | | -0.04 | | .32\*\* | | 0.06 | | .25\*\* | | 0 | | -0.01 | | -0.03 | | 0.12 | | -0.04 | | 0.1 | | -0.09 | | 0.01 | | 0 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.16, .12] | [-.11, .17] | [-.11, .16] | [-.14, .14] | [-.03, .24] | [.02, .29] | [.01, .28] | [-.10, .18] | [-.08, .20] | [-.12, .16] | [-.23, .04] | [-.21, .07] | | [.06, .33] | | [-.05, .23] | | [-.06, .22] | | [-.15, .13] | | [-.23, .04] | | [-.17, .10] | | [.19, .44] | | [-.08, .20] | | [.11, .37] | | [-.14, .14] | | [-.14, .13] | | [-.16, .11] | | [-.02, .26] | | [-.17, .10] | | [-.03, .24] | | [-.23, .05] | | [-.13, .15] | | [-.13, .14] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 32. Power Game, Positive Affect S-R | |  | 0 | 1.08 | 0.12 | 0.1 | .16\* | 0.08 | 0.04 | 0.04 | 0.09 | .19\*\* | 0.08 | 0.06 | -.16\* | -0.07 | | -0.08 | | .18\* | | 0.05 | | 0.11 | | -.20\*\* | | -0.09 | | -0.03 | | -0.07 | | 0.1 | | -0.01 | | 0.05 | | -0.02 | | 0 | | -0.09 | | 0.08 | | 0.04 | | 0.04 | | -0.08 | | 0.01 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.02, .26] | [-.04, .24] | [.02, .29] | [-.06, .22] | [-.11, .18] | [-.10, .18] | [-.05, .23] | [.05, .33] | [-.06, .22] | [-.08, .21] | [-.30, -.02] | [-.22, .07] | | [-.22, .06] | | [.04, .32] | | [-.09, .20] | | [-.03, .25] | | [-.33, -.06] | | [-.23, .06] | | [-.17, .12] | | [-.22, .07] | | [-.05, .24] | | [-.16, .13] | | [-.10, .19] | | [-.17, .12] | | [-.14, .15] | | [-.23, .05] | | [-.06, .23] | | [-.11, .18] | | [-.11, .18] | | [-.22, .07] | | [-.14, .15] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 33. Power Imagination, Positive Affect S-R | |  | 0 | 1.12 | 0.01 | 0.08 | .19\*\* | 0.11 | -0.02 | 0.13 | 0.04 | 0.11 | .17\* | -.15\* | -0.11 | -.25\*\* | | -0.1 | | -0.01 | | .16\* | | -0.06 | | -0.06 | | -0.1 | | -0.06 | | -0.06 | | -0.07 | | 0.01 | | 0.07 | | -0.02 | | -0.12 | | -0.05 | | 0 | | -0.08 | | 0.04 | | -0.07 | | -0.03 | | .24\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.13, .16] | [-.07, .21] | [.05, .33] | [-.03, .25] | [-.16, .12] | [-.01, .27] | [-.10, .18] | [-.04, .25] | [.03, .31] | [-.28, -.00] | [-.25, .04] | [-.38, -.11] | | [-.24, .05] | | [-.15, .14] | | [.02, .30] | | [-.21, .08] | | [-.20, .09] | | [-.24, .04] | | [-.20, .09] | | [-.20, .09] | | [-.21, .07] | | [-.14, .15] | | [-.08, .21] | | [-.17, .12] | | [-.26, .03] | | [-.20, .09] | | [-.14, .15] | | [-.22, .07] | | [-.11, .18] | | [-.21, .08] | | [-.17, .11] | | [.10, .37] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 34. Power Satisfaction, Images, Positive Affect S-R | |  | 0 | 0.7 | 0.1 | 0.13 | .18\* | 0.12 | 0.02 | -0.11 | 0.01 | 0 | -0.04 | 0.13 | -0.02 | 0.02 | | -0.14 | | 0.1 | | 0.03 | | 0 | | -0.03 | | 0.06 | | -0.02 | | -0.01 | | -0.01 | | -0.04 | | 0 | | .15\* | | 0.08 | | 0.09 | | 0.04 | | -0.05 | | -0.09 | | 0.1 | | -.16\* | | .22\*\* | | 0.12 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.04, .24] | [-.02, .26] | [.04, .31] | [-.02, .26] | [-.13, .16] | [-.25, .03] | [-.13, .16] | [-.15, .14] | [-.18, .11] | [-.02, .26] | [-.16, .13] | [-.13, .16] | | [-.27, .01] | | [-.05, .24] | | [-.11, .18] | | [-.15, .14] | | [-.17, .12] | | [-.08, .21] | | [-.16, .13] | | [-.16, .13] | | [-.15, .13] | | [-.18, .11] | | [-.15, .14] | | [.01, .29] | | [-.07, .22] | | [-.06, .23] | | [-.11, .18] | | [-.19, .09] | | [-.23, .06] | | [-.05, .24] | | [-.30, -.02] | | [.08, .35] | | [-.02, .26] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 35. Power Frustration, Images, Positive Affect S-R | |  | 0 | 0.38 | 0.12 | 0.07 | .16\* | 0.14 | 0.04 | -0.05 | 0.09 | 0 | 0.05 | 0.03 | 0.03 | -0.13 | | -0.07 | | -0.06 | | 0.14 | | -.19\* | | 0.01 | | -0.09 | | 0 | | 0.13 | | .15\* | | -0.06 | | -0.1 | | -0.03 | | -0.05 | | 0.11 | | .19\*\* | | -.18\* | | -0.08 | | 0.02 | | -.23\*\* | | 0.08 | | .18\* | | .37\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.03, .25] | [-.07, .21] | [.02, .30] | [-.00, .28] | [-.10, .18] | [-.19, .09] | [-.05, .23] | [-.14, .15] | [-.09, .20] | [-.11, .18] | [-.11, .18] | [-.27, .01] | | [-.22, .07] | | [-.20, .09] | | [-.00, .28] | | [-.32, -.04] | | [-.13, .15] | | [-.23, .05] | | [-.14, .15] | | [-.01, .27] | | [.00, .29] | | [-.21, .08] | | [-.24, .04] | | [-.18, .11] | | [-.20, .09] | | [-.03, .25] | | [.05, .33] | | [-.32, -.04] | | [-.22, .07] | | [-.13, .16] | | [-.36, -.09] | | [-.06, .22] | | [.04, .32] | | [.24, .48] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 36. Power Game, Negative Affect S-R | |  | 0 | 1.02 | 0.03 | 0.03 | 0.04 | 0.07 | 0.12 | 0.03 | 0.02 | -0.09 | -0.09 | -0.04 | 0.1 | -0.06 | | 0.13 | | -0.05 | | 0.07 | | -0.06 | | .21\*\* | | -0.09 | | 0.13 | | -0.02 | | -0.08 | | -0.04 | | -0.07 | | -0.03 | | -0.03 | | 0.06 | | -0.02 | | -0.07 | | 0 | | -0.13 | | 0.01 | | -.18\* | | 0.02 | | 0.06 | | 0.07 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.11, .17] | [-.11, .17] | [-.10, .18] | [-.07, .21] | [-.02, .26] | [-.11, .17] | [-.12, .16] | [-.23, .06] | [-.23, .06] | [-.19, .10] | [-.05, .24] | [-.20, .09] | | [-.02, .27] | | [-.19, .10] | | [-.08, .21] | | [-.20, .09] | | [.07, .34] | | [-.23, .05] | | [-.01, .27] | | [-.16, .12] | | [-.22, .07] | | [-.18, .10] | | [-.21, .08] | | [-.17, .12] | | [-.17, .12] | | [-.08, .21] | | [-.16, .13] | | [-.21, .08] | | [-.15, .14] | | [-.27, .02] | | [-.13, .15] | | [-.31, -.04] | | [-.12, .17] | | [-.08, .20] | | [-.07, .21] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 37. Power Imagination, Negative Affect S-R | |  | 0 | 1.09 | 0.05 | -0.02 | -0.05 | -0.02 | 0.04 | 0.02 | 0 | 0.04 | -0.01 | 0.04 | 0.03 | 0.02 | | 0.05 | | 0.12 | | 0.01 | | 0.05 | | 0.07 | | -0.02 | | 0.01 | | -0.04 | | 0.08 | | -0.08 | | -0.05 | | 0.01 | | 0.09 | | -0.04 | | 0.02 | | 0.09 | | 0 | | -0.07 | | 0.04 | | 0.06 | | -.27\*\* | | 0.09 | | 0.02 | | .34\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.09, .19] | [-.16, .12] | [-.19, .09] | [-.16, .12] | [-.10, .18] | [-.12, .16] | [-.14, .14] | [-.11, .18] | [-.15, .14] | [-.10, .18] | [-.12, .17] | [-.12, .17] | | [-.09, .20] | | [-.02, .26] | | [-.13, .16] | | [-.09, .20] | | [-.07, .21] | | [-.16, .13] | | [-.13, .16] | | [-.19, .10] | | [-.07, .22] | | [-.22, .07] | | [-.19, .10] | | [-.13, .15] | | [-.05, .23] | | [-.19, .10] | | [-.13, .16] | | [-.06, .23] | | [-.14, .15] | | [-.21, .08] | | [-.10, .19] | | [-.09, .20] | | [-.40, -.14] | | [-.05, .23] | | [-.12, .17] | | [.21, .46] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 38. Power Satisfaction, Images, Negative Affect S-R | |  | 0 | 0.53 | -0.01 | 0.02 | 0.06 | .15\* | 0.09 | 0.05 | 0.02 | -0.06 | 0.1 | -0.12 | -0.07 | -0.06 | | 0.13 | | -0.03 | | -0.02 | | 0 | | -0.14 | | -0.07 | | 0.03 | | -0.03 | | 0.05 | | -0.04 | | -0.07 | | -0.06 | | 0.1 | | -0.03 | | 0 | | -0.09 | | -0.03 | | -0.1 | | -0.02 | | 0.12 | | .17\* | | 0.09 | | .21\*\* | | 0.1 | | .18\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.15, .13] | [-.12, .16] | [-.08, .20] | [.01, .28] | [-.05, .23] | [-.09, .19] | [-.12, .17] | [-.20, .08] | [-.05, .24] | [-.26, .02] | [-.22, .07] | [-.20, .09] | | [-.01, .27] | | [-.17, .11] | | [-.16, .13] | | [-.14, .15] | | [-.28, .01] | | [-.22, .07] | | [-.11, .18] | | [-.17, .12] | | [-.10, .19] | | [-.18, .11] | | [-.21, .08] | | [-.20, .09] | | [-.04, .24] | | [-.17, .11] | | [-.14, .14] | | [-.23, .06] | | [-.17, .11] | | [-.24, .05] | | [-.17, .12] | | [-.03, .25] | | [.03, .30] | | [-.05, .23] | | [.07, .34] | | [-.04, .24] | | [.04, .31] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 39. Power Frustration, Images, Negative Affect S-R | |  | 0 | 0.73 | -0.09 | 0.01 | -0.11 | -0.02 | 0.03 | .17\* | 0.07 | 0.04 | -0.02 | 0.05 | -0.12 | 0.08 | | 0.07 | | .20\*\* | | 0 | | 0.08 | | -0.09 | | 0.12 | | 0.03 | | 0.03 | | -0.06 | | 0.07 | | -0.05 | | 0.03 | | 0.12 | | -0.05 | | -0.06 | | 0.01 | | 0.04 | | 0 | | -0.01 | | 0.12 | | 0.07 | | .27\*\* | | -0.1 | | .16\* | | .20\*\* | | .27\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.23, .05] | [-.13, .15] | [-.25, .03] | [-.16, .12] | [-.11, .17] | [.03, .30] | [-.07, .21] | [-.10, .19] | [-.17, .12] | [-.10, .19] | [-.26, .03] | [-.07, .22] | | [-.08, .21] | | [.06, .34] | | [-.14, .15] | | [-.06, .23] | | [-.23, .06] | | [-.03, .26] | | [-.12, .17] | | [-.12, .17] | | [-.20, .09] | | [-.08, .21] | | [-.20, .09] | | [-.11, .18] | | [-.02, .26] | | [-.19, .10] | | [-.21, .08] | | [-.14, .15] | | [-.11, .18] | | [-.15, .14] | | [-.16, .13] | | [-.02, .25] | | [-.07, .21] | | [.14, .40] | | [-.24, .04] | | [.02, .29] | | [.06, .33] | | [.13, .40] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 40. Affiliation Game, Positive Affect S-R | |  | 0 | 0.98 | 0.05 | 0.05 | -0.07 | -0.08 | -0.06 | -0.01 | -0.06 | -0.02 | -0.1 | 0.02 | 0.02 | -0.02 | | 0.03 | | 0.1 | | -0.06 | | -0.03 | | -0.02 | | -0.02 | | -0.03 | | .15\* | | -0.03 | | -0.01 | | -.18\* | | 0.07 | | 0.03 | | .29\*\* | | 0.02 | | 0.01 | | -.21\*\* | | 0.05 | | -0.04 | | .20\*\* | | 0.08 | | .17\* | | 0.05 | | 0.12 | | 0.07 | | 0.02 | | 0.08 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.09, .19] | [-.09, .19] | [-.21, .07] | [-.22, .06] | [-.20, .08] | [-.15, .13] | [-.20, .08] | [-.16, .13] | [-.24, .05] | [-.13, .16] | [-.12, .17] | [-.17, .12] | | [-.12, .17] | | [-.04, .24] | | [-.20, .09] | | [-.18, .11] | | [-.16, .13] | | [-.16, .13] | | [-.18, .11] | | [.01, .29] | | [-.17, .12] | | [-.16, .13] | | [-.32, -.04] | | [-.07, .21] | | [-.12, .17] | | [.16, .42] | | [-.13, .16] | | [-.13, .15] | | [-.35, -.07] | | [-.09, .19] | | [-.19, .10] | | [.06, .33] | | [-.06, .22] | | [.03, .31] | | [-.10, .19] | | [-.02, .26] | | [-.08, .21] | | [-.12, .16] | | [-.06, .22] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 41. Affiliation Imagination, Positive Affect S-R | |  | 0 | 0.97 | -0.03 | -0.04 | -0.1 | 0.01 | 0.04 | 0.06 | 0.13 | -0.01 | -0.05 | 0.02 | 0 | -.15\* | | -0.04 | | 0.06 | | 0.09 | | -0.06 | | 0.11 | | -0.14 | | 0.01 | | 0.01 | | 0.1 | | 0 | | -0.05 | | -0.1 | | -.19\*\* | | 0.06 | | 0.08 | | -0.04 | | 0.04 | | -0.09 | | 0 | | 0.07 | | .18\* | | 0.06 | | .18\* | | .20\*\* | | 0.14 | | 0.09 | | .24\*\* | | .16\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.17, .11] | [-.18, .10] | [-.23, .05] | [-.13, .15] | [-.10, .18] | [-.08, .20] | [-.01, .27] | [-.16, .13] | [-.19, .10] | [-.13, .16] | [-.14, .15] | [-.29, -.01] | | [-.18, .10] | | [-.08, .20] | | [-.06, .23] | | [-.20, .09] | | [-.04, .25] | | [-.28, .00] | | [-.13, .16] | | [-.13, .16] | | [-.04, .24] | | [-.15, .14] | | [-.20, .09] | | [-.24, .04] | | [-.33, -.05] | | [-.09, .20] | | [-.06, .23] | | [-.19, .10] | | [-.10, .19] | | [-.24, .05] | | [-.15, .14] | | [-.07, .21] | | [.04, .31] | | [-.08, .20] | | [.04, .31] | | [.06, .33] | | [-.01, .27] | | [-.05, .23] | | [.10, .37] | | [.01, .29] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 42. Affiliation Satisfaction, Images, Positive Affect S-R | |  | 0 | 0.71 | -0.09 | -0.07 | -0.05 | -0.02 | 0.08 | .21\*\* | .17\* | 0.03 | 0.01 | 0.09 | -0.07 | 0.01 | | 0 | | .21\*\* | | 0.01 | | -0.03 | | -0.08 | | 0.03 | | 0.02 | | 0.05 | | -0.01 | | .15\* | | -0.12 | | 0.04 | | -0.09 | | 0.06 | | -0.05 | | 0.01 | | -0.03 | | 0.05 | | -0.01 | | .20\*\* | | .23\*\* | | .31\*\* | | 0.14 | | 0.1 | | 0.13 | | .17\* | | .47\*\* | | .28\*\* | | .39\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.23, .05] | [-.21, .08] | [-.19, .10] | [-.16, .12] | [-.06, .22] | [.07, .34] | [.03, .30] | [-.12, .17] | [-.14, .15] | [-.05, .23] | [-.22, .07] | [-.14, .15] | | [-.15, .14] | | [.07, .34] | | [-.14, .15] | | [-.17, .11] | | [-.22, .06] | | [-.11, .18] | | [-.12, .17] | | [-.10, .19] | | [-.15, .14] | | [.00, .29] | | [-.26, .02] | | [-.10, .19] | | [-.23, .06] | | [-.08, .20] | | [-.19, .10] | | [-.14, .15] | | [-.17, .11] | | [-.09, .19] | | [-.15, .13] | | [.06, .34] | | [.10, .36] | | [.17, .43] | | [-.01, .27] | | [-.05, .23] | | [-.01, .27] | | [.02, .30] | | [.36, .58] | | [.15, .41] | | [.27, .51] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 43. Affiliation Frustration, Images, Positive Affect S-R | |  | 0 | 0.44 | -0.04 | 0.01 | -0.03 | -0.12 | -0.05 | -0.09 | 0.03 | -0.02 | -0.07 | 0.11 | -0.03 | -0.14 | | 0.05 | | -0.02 | | 0.01 | | -0.05 | | 0 | | -0.13 | | .17\* | | 0.06 | | 0.11 | | 0.06 | | -0.13 | | -0.07 | | 0.1 | | -0.01 | | .17\* | | -0.03 | | -.16\* | | -0.08 | | -0.06 | | 0.03 | | .18\* | | .23\*\* | | .41\*\* | | -0.01 | | -0.02 | | .28\*\* | | 0.01 | | 0.13 | | .17\* | | .16\* | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.18, .10] | [-.13, .15] | [-.17, .12] | [-.26, .02] | [-.19, .09] | [-.23, .05] | [-.11, .17] | [-.16, .13] | [-.21, .08] | [-.04, .25] | [-.17, .12] | [-.28, .01] | | [-.09, .20] | | [-.16, .13] | | [-.14, .15] | | [-.20, .09] | | [-.15, .14] | | [-.27, .02] | | [.02, .31] | | [-.08, .20] | | [-.04, .25] | | [-.09, .20] | | [-.27, .01] | | [-.22, .07] | | [-.05, .24] | | [-.15, .14] | | [.03, .31] | | [-.17, .11] | | [-.30, -.02] | | [-.22, .06] | | [-.20, .09] | | [-.11, .18] | | [.04, .31] | | [.09, .36] | | [.29, .52] | | [-.15, .13] | | [-.16, .12] | | [.14, .41] | | [-.13, .16] | | [-.01, .26] | | [.03, .30] | | [.02, .29] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 44. Affiliation Game, Negative Affect S-R | |  | 0 | 1.06 | 0.08 | 0.06 | 0.07 | 0.07 | 0.12 | .16\* | .23\*\* | -0.02 | 0.08 | -0.03 | 0.12 | 0 | | 0.05 | | 0.03 | | .16\* | | -0.07 | | 0.02 | | -0.01 | | -0.03 | | -0.07 | | .22\*\* | | -0.14 | | 0.01 | | 0 | | -0.06 | | -0.05 | | 0.09 | | -0.03 | | 0.07 | | -0.05 | | 0.09 | | 0.14 | | 0.1 | | 0.05 | | 0.12 | | .18\* | | .16\* | | .21\*\* | | .14\* | | -0.09 | | .23\*\* | | .15\* | | -0.03 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.06, .22] | [-.08, .20] | [-.07, .21] | [-.07, .21] | [-.03, .25] | [.02, .30] | [.09, .36] | [-.17, .12] | [-.07, .22] | [-.18, .11] | [-.03, .26] | [-.15, .14] | | [-.09, .19] | | [-.11, .18] | | [.02, .30] | | [-.21, .08] | | [-.13, .16] | | [-.15, .13] | | [-.17, .12] | | [-.21, .08] | | [.08, .36] | | [-.28, .01] | | [-.13, .16] | | [-.14, .15] | | [-.20, .08] | | [-.19, .09] | | [-.05, .23] | | [-.18, .11] | | [-.08, .21] | | [-.19, .09] | | [-.06, .23] | | [-.00, .27] | | [-.04, .24] | | [-.09, .19] | | [-.02, .26] | | [.04, .31] | | [.02, .29] | | [.07, .34] | | [.00, .28] | | [-.23, .05] | | [.09, .36] | | [.01, .29] | | [-.17, .12] | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 45. Affiliation Imagination, Negative Affect S-R | |  | 0 | 0.97 | -0.03 | -0.07 | 0.07 | 0.11 | 0.14 | .15\* | 0.14 | 0 | .17\* | -0.08 | -0.07 | .15\* | | 0.01 | | 0.02 | | .26\*\* | | -0.02 | | 0.01 | | .15\* | | -0.14 | | -0.11 | | -0.09 | | -0.11 | | 0.07 | | 0.04 | | -0.1 | | 0.02 | | -0.02 | | -0.04 | | 0.13 | | -0.03 | | 0.02 | | 0.06 | | 0.08 | | .17\* | | 0.05 | | .17\* | | .21\*\* | | 0.1 | | 0.14 | | -0.07 | | 0.1 | | 0.06 | | -0.08 | | .28\*\* | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.17, .12] | [-.21, .08] | [-.08, .21] | [-.03, .25] | [-.01, .27] | [.01, .28] | [-.00, .28] | [-.15, .14] | [.02, .30] | [-.22, .06] | [-.21, .07] | [.00, .28] | | [-.14, .15] | | [-.12, .16] | | [.12, .39] | | [-.16, .13] | | [-.14, .15] | | [.00, .28] | | [-.28, .00] | | [-.25, .04] | | [-.23, .05] | | [-.25, .03] | | [-.07, .21] | | [-.11, .18] | | [-.24, .04] | | [-.12, .17] | | [-.17, .12] | | [-.19, .10] | | [-.02, .27] | | [-.17, .12] | | [-.13, .16] | | [-.08, .20] | | [-.06, .22] | | [.03, .31] | | [-.09, .19] | | [.03, .31] | | [.08, .35] | | [-.04, .24] | | [-.01, .27] | | [-.21, .07] | | [-.04, .24] | | [-.09, .20] | | [-.22, .06] | | [.14, .41] | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 46. Affiliation Satisfaction, Images, Negative Affect S-R | |  | 0 | 0.33 | -0.02 | -0.04 | 0.13 | 0.09 | -0.01 | -0.09 | 0 | -0.06 | 0.04 | -0.01 | 0.02 | -0.09 | | -0.06 | | 0.07 | | 0.01 | | 0.01 | | -0.09 | | -0.05 | | 0.02 | | -0.03 | | -0.04 | | -0.12 | | 0.07 | | -0.05 | | 0.05 | | -0.09 | | -0.08 | | 0.07 | | 0.07 | | -0.09 | | -0.08 | | 0.1 | | 0.05 | | .15\* | | .24\*\* | | 0.02 | | 0.1 | | .40\*\* | | 0.06 | | -0.08 | | 0.1 | | -0.13 | | .18\* | | .20\*\* | | .25\*\* | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.16, .12] | [-.18, .10] | [-.01, .27] | [-.05, .23] | [-.15, .13] | [-.23, .05] | [-.14, .14] | [-.20, .09] | [-.11, .18] | [-.15, .13] | [-.12, .16] | [-.23, .05] | | [-.21, .08] | | [-.08, .21] | | [-.13, .15] | | [-.13, .16] | | [-.23, .05] | | [-.19, .10] | | [-.13, .16] | | [-.17, .12] | | [-.19, .10] | | [-.26, .02] | | [-.07, .21] | | [-.19, .10] | | [-.09, .19] | | [-.23, .06] | | [-.22, .07] | | [-.08, .21] | | [-.08, .21] | | [-.23, .05] | | [-.22, .06] | | [-.04, .24] | | [-.09, .19] | | [.01, .29] | | [.10, .37] | | [-.12, .16] | | [-.04, .24] | | [.27, .51] | | [-.08, .20] | | [-.22, .07] | | [-.04, .24] | | [-.26, .02] | | [.04, .31] | | [.06, .33] | | [.11, .38] | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 47. Affiliation Frustration, Images, Negative Affect S-R | |  | 0 | 0.79 | -0.05 | 0.03 | -0.05 | 0.09 | 0.07 | .28\*\* | .19\*\* | 0.05 | 0.01 | 0.04 | -0.12 | 0.01 | | -0.01 | | 0.14 | | -0.01 | | 0.04 | | -0.11 | | 0.04 | | 0.01 | | -0.04 | | -0.05 | | 0.01 | | 0.11 | | 0.03 | | -0.06 | | 0.02 | | -0.05 | | -0.02 | | 0.11 | | -0.01 | | -0.02 | | .18\* | | .16\* | | .26\*\* | | 0.05 | | 0.14 | | .27\*\* | | .25\*\* | | .57\*\* | | .16\* | | .27\*\* | | .57\*\* | | -0.12 | | 0.14 | | .24\*\* | | 0.13 | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  | [-.19, .09] | [-.12, .17] | [-.19, .09] | [-.06, .22] | [-.07, .21] | [.14, .40] | [.05, .32] | [-.09, .20] | [-.13, .15] | [-.10, .19] | [-.26, .02] | [-.13, .16] | | [-.16, .13] | | [-.01, .27] | | [-.16, .13] | | [-.11, .18] | | [-.25, .03] | | [-.10, .18] | | [-.13, .16] | | [-.19, .10] | | [-.20, .09] | | [-.13, .15] | | [-.04, .25] | | [-.12, .17] | | [-.21, .08] | | [-.12, .17] | | [-.19, .10] | | [-.17, .12] | | [-.03, .25] | | [-.15, .14] | | [-.16, .13] | | [.03, .31] | | [.02, .30] | | [.12, .39] | | [-.09, .19] | | [-.00, .28] | | [.14, .40] | | [.11, .38] | | [.47, .66] | | [.02, .30] | | [.13, .39] | | [.46, .65] | | [-.25, .03] | | [-.00, .27] | | [.10, .37] | | [-.01, .26] | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 48. Power Behavior | |  | 2.04 | 0.53 | .19\* | .20\* | 0.06 | .22\* | 0.12 | -0.03 | 0.04 | -0.14 | 0 | 0 | 0.02 | 0.06 | | 0.04 | | -0.04 | | -0.02 | | -0.12 | | 0.09 | | 0 | | -0.03 | | 0.07 | | 0.11 | | 0.01 | | 0.06 | | -0.06 | | 0.03 | | 0.17 | | -0.04 | | -0.02 | | 0.03 | | -0.03 | | 0.09 | | -0.04 | | -.23\*\* | | -0.02 | | 0.11 | | 0.08 | | 0.09 | | -0.06 | | -0.03 | | 0.13 | | -0.04 | | -0.07 | | -0.09 | | -0.11 | | 0.05 | | -0.05 | | -0.05 | |  | |  | |  | |  | |  | |
|  | |  |  |  | [.02, .36] | [.03, .37] | [-.11, .24] | [.04, .38] | [-.06, .29] | [-.20, .15] | [-.14, .22] | [-.31, .04] | [-.19, .18] | [-.18, .18] | [-.16, .20] | [-.12, .24] | | [-.15, .22] | | [-.22, .15] | | [-.20, .16] | | [-.29, .07] | | [-.10, .26] | | [-.18, .18] | | [-.21, .16] | | [-.11, .25] | | [-.07, .29] | | [-.17, .19] | | [-.12, .24] | | [-.24, .12] | | [-.15, .21] | | [-.01, .34] | | [-.22, .14] | | [-.20, .17] | | [-.15, .21] | | [-.21, .15] | | [-.10, .26] | | [-.21, .14] | | [-.40, -.06] | | [-.20, .16] | | [-.07, .28] | | [-.10, .25] | | [-.09, .26] | | [-.24, .12] | | [-.21, .15] | | [-.05, .30] | | [-.22, .14] | | [-.25, .11] | | [-.26, .09] | | [-.29, .06] | | [-.13, .23] | | [-.23, .13] | | [-.23, .13] | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 49. Affiliation Behavior | |  | 3.42 | 0.53 | 0.02 | 0.08 | -0.15 | -0.02 | 0.03 | 0.08 | 0.09 | -0.04 | 0.06 | 0.09 | -0.01 | 0.02 | | 0.14 | | 0.11 | | 0.05 | | -0.14 | | 0.02 | | -0.12 | | 0.05 | | 0.12 | | 0.09 | | 0.16 | | -0.12 | | -0.02 | | -.20\* | | 0.05 | | 0.01 | | -0.16 | | -0.04 | | 0 | | 0.07 | | 0.06 | | -0.02 | | -0.05 | | .18\* | | -0.06 | | 0.02 | | 0.11 | | -0.03 | | -0.05 | | .25\*\* | | 0.13 | | 0.07 | | -0.09 | | 0.07 | | -0.08 | | 0.06 | | 0.08 | |  | |  | |  | |  | |
|  | |  |  |  | [-.16, .19] | [-.10, .25] | [-.32, .03] | [-.20, .15] | [-.15, .20] | [-.10, .26] | [-.09, .26] | [-.22, .15] | [-.12, .24] | [-.09, .27] | [-.20, .17] | [-.16, .21] | | [-.05, .31] | | [-.07, .28] | | [-.13, .23] | | [-.32, .04] | | [-.16, .20] | | [-.30, .06] | | [-.13, .23] | | [-.06, .30] | | [-.10, .27] | | [-.03, .33] | | [-.29, .06] | | [-.20, .16] | | [-.37, -.02] | | [-.13, .23] | | [-.18, .19] | | [-.33, .02] | | [-.22, .14] | | [-.18, .18] | | [-.12, .25] | | [-.12, .24] | | [-.20, .16] | | [-.22, .13] | | [.01, .35] | | [-.23, .12] | | [-.16, .20] | | [-.07, .28] | | [-.21, .15] | | [-.22, .13] | | [.07, .41] | | [-.05, .30] | | [-.11, .24] | | [-.26, .09] | | [-.11, .24] | | [-.25, .10] | | [-.12, .24] | | [-.09, .26] | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 50. UMS Power | |  | 2.89 | 0.86 | .70\*\* | .57\*\* | .35\*\* | .65\*\* | .29\*\* | 0.09 | .15\* | 0.09 | -0.02 | 0.06 | -0.06 | 0 | | -0.08 | | -0.05 | | -0.05 | | .14\* | | 0.02 | | 0.04 | | -0.13 | | -0.05 | | -0.01 | | 0.03 | | 0.07 | | 0.05 | | -0.1 | | -0.08 | | 0.03 | | 0.04 | | 0.11 | | 0.04 | | -0.04 | | .17\* | | 0.02 | | .16\* | | 0.09 | | -0.04 | | -0.02 | | -0.04 | | -0.05 | | -0.04 | | -0.04 | | -0.04 | | -0.13 | | 0.11 | | 0.06 | | 0.07 | | 0.02 | | .20\* | | 0.01 | |  | |  | |  | |
|  | |  |  |  | [.62, .76] | [.47, .65] | [.23, .47] | [.56, .72] | [.16, .41] | [-.04, .23] | [.02, .28] | [-.05, .23] | [-.16, .12] | [-.07, .20] | [-.19, .08] | [-.14, .14] | | [-.21, .06] | | [-.19, .09] | | [-.19, .09] | | [.00, .28] | | [-.12, .16] | | [-.10, .18] | | [-.27, .01] | | [-.18, .09] | | [-.15, .13] | | [-.11, .16] | | [-.07, .21] | | [-.09, .18] | | [-.24, .04] | | [-.21, .06] | | [-.11, .17] | | [-.10, .18] | | [-.03, .25] | | [-.10, .18] | | [-.18, .10] | | [.03, .30] | | [-.12, .16] | | [.02, .29] | | [-.06, .22] | | [-.18, .10] | | [-.16, .13] | | [-.18, .10] | | [-.19, .09] | | [-.18, .10] | | [-.18, .10] | | [-.18, .10] | | [-.27, .01] | | [-.03, .25] | | [-.09, .20] | | [-.07, .21] | | [-.12, .16] | | [.03, .37] | | [-.17, .18] | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 51. UMS Affiliation | |  | 3.74 | 0.62 | 0.12 | .20\*\* | -.14\* | .16\* | 0.12 | .41\*\* | .31\*\* | -0.06 | -0.09 | 0.02 | -0.02 | -0.01 | | 0.11 | | -0.14 | | -0.04 | | -0.04 | | -0.08 | | -0.04 | | 0.08 | | 0.05 | | 0.09 | | 0.1 | | -.16\* | | -0.14 | | -0.1 | | 0.02 | | -0.02 | | -0.05 | | -0.06 | | -0.11 | | 0.05 | | 0.02 | | 0.07 | | 0.03 | | 0 | | 0.07 | | -0.04 | | .14\* | | .17\* | | .17\* | | 0.12 | | 0.14 | | 0.02 | | 0.03 | | -0.02 | | -0.06 | | .14\* | | 0.09 | | 0.05 | | 0.07 | |  | |  | |
|  | |  |  |  | [-.02, .25] | [.06, .32] | [-.27, -.00] | [.03, .29] | [-.02, .25] | [.28, .51] | [.19, .43] | [-.19, .08] | [-.23, .05] | [-.11, .16] | [-.16, .12] | [-.14, .13] | | [-.02, .25] | | [-.27, .00] | | [-.18, .10] | | [-.18, .10] | | [-.21, .06] | | [-.18, .10] | | [-.06, .22] | | [-.09, .19] | | [-.05, .23] | | [-.04, .23] | | [-.29, -.02] | | [-.27, .00] | | [-.24, .04] | | [-.12, .15] | | [-.16, .12] | | [-.19, .09] | | [-.20, .08] | | [-.25, .03] | | [-.09, .19] | | [-.12, .16] | | [-.07, .21] | | [-.11, .17] | | [-.14, .14] | | [-.07, .21] | | [-.18, .11] | | [.00, .28] | | [.03, .31] | | [.03, .31] | | [-.03, .25] | | [-.00, .28] | | [-.12, .16] | | [-.11, .18] | | [-.16, .12] | | [-.20, .08] | | [.00, .28] | | [-.09, .26] | | [-.13, .23] | | [-.07, .20] | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 52. Daily Diary, Average Positive Affect | |  | 2.71 | 0.52 | .29\*\* | .32\*\* | -0.1 | .26\*\* | 0.07 | 0.13 | -0.02 | 0.05 | -0.02 | 0.05 | 0.05 | 0.05 | | 0.06 | | -0.06 | | 0 | | 0.06 | | 0.02 | | 0.04 | | 0.06 | | -0.01 | | -0.06 | | 0.12 | | 0.05 | | -0.04 | | -0.05 | | 0.01 | | 0.02 | | 0.04 | | -0.02 | | -0.02 | | -0.06 | | 0 | | 0 | | 0 | | 0 | | 0.03 | | 0.01 | | .14\* | | .21\*\* | | 0 | | 0 | | 0 | | 0 | | 0.12 | | -0.06 | | -0.11 | | 0.13 | | 0.02 | | 0.11 | | .27\*\* | | .21\*\* | |  | |
|  | |  |  |  | [.16, .42] | [.19, .45] | [-.24, .04] | [.12, .39] | [-.07, .21] | [-.01, .26] | [-.16, .12] | [-.10, .19] | [-.17, .12] | [-.09, .19] | [-.10, .19] | [-.10, .19] | | [-.08, .20] | | [-.21, .08] | | [-.15, .14] | | [-.09, .20] | | [-.13, .16] | | [-.11, .18] | | [-.08, .21] | | [-.16, .13] | | [-.20, .09] | | [-.03, .26] | | [-.10, .19] | | [-.18, .11] | | [-.19, .10] | | [-.13, .16] | | [-.12, .16] | | [-.10, .18] | | [-.17, .12] | | [-.17, .12] | | [-.20, .09] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.11, .17] | | [-.14, .15] | | [.00, .28] | | [.07, .34] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.02, .26] | | [-.20, .08] | | [-.25, .03] | | [-.01, .27] | | [-.16, .20] | | [-.07, .29] | | [.14, .40] | | [.07, .34] | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 53. Daily Diary, Average Negative Affect | |  | 1.56 | 0.36 | 0.04 | 0.06 | .39\*\* | 0.14 | .27\*\* | 0.02 | .19\*\* | 0.02 | -0.01 | 0.1 | -0.03 | -0.02 | | 0.04 | | 0.03 | | 0.03 | | 0.11 | | -0.06 | | -0.03 | | -0.03 | | -0.08 | | -0.08 | | -0.08 | | 0.06 | | 0.12 | | .24\*\* | | -0.11 | | 0.04 | | .17\* | | 0.05 | | 0.09 | | -0.1 | | .17\* | | 0.02 | | .33\*\* | | 0.1 | | 0 | | 0 | | 0 | | 0 | | 0.02 | | -0.06 | | 0.14 | | 0.06 | | 0 | | 0 | | 0 | | 0 | | -0.01 | | -0.04 | | .16\* | | -0.02 | | 0.01 | |
|  | |  |  |  | [-.10, .18] | [-.08, .20] | [.26, .50] | [-.01, .27] | [.13, .39] | [-.12, .16] | [.05, .32] | [-.13, .16] | [-.15, .14] | [-.04, .24] | [-.17, .11] | [-.16, .13] | | [-.11, .18] | | [-.11, .18] | | [-.12, .17] | | [-.04, .25] | | [-.20, .09] | | [-.17, .12] | | [-.18, .11] | | [-.22, .06] | | [-.23, .06] | | [-.22, .07] | | [-.09, .20] | | [-.03, .26] | | [.10, .37] | | [-.25, .03] | | [-.11, .18] | | [.02, .30] | | [-.10, .19] | | [-.05, .23] | | [-.24, .05] | | [.03, .30] | | [-.12, .16] | | [.20, .45] | | [-.04, .24] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.12, .16] | | [-.20, .08] | | [-.00, .28] | | [-.09, .20] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.14, .14] | | [-.19, .17] | | [-.21, .14] | | [.02, .30] | | [-.16, .12] | | [-.13, .15] | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | *Note.* *M* and *SD* are used to represent mean and standard deviation, respectively. Values in square brackets indicate the 95% confidence interval for each correlation. The confidence interval is a plausible range of population correlations that could have caused the sample correlation (Cumming, 2014). \* indicates *p* < .05. \*\* indicates *p* < .01. | | | | | | | | | | | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

Linearity

We first created scatterplots of the correlations between main variables, then focused on the relations of narcissism with other variables. We noticed a few scatterplots suggesting that nonlinear relationships instead of linear relationships could better describe the following relations:

Overall narcissism and narcissistic admiration appeared nonlinearly related to affiliative behavior, with the relationships in both cases taking an inverted U-shape (suggesting that affiliative behavior peaked at average narcissism and admiration levels). This finding deserves further empirical scrutiny with a bigger sample.

Narcissistic rivalry appeared nonlinearly related to corrugator activity in response to affiliation satisfaction and affiliation frustration in the affiliation game, with the relationship in both cases taking an inverted U-shape (suggesting that corrugator activity peaked at average rivalry levels). This finding might indicate that displeasure from affiliative experiences might peak at moderate levels of rivalry, though it was limited to one task.

Figure S3

*Bivariate Scatterplots, Histograms, and Correlations of Main Variables (Narcissism Indices, Self-reported and fEMG-Indexed Affective Contingencies, Behaviors)*

A picture containing text, light

Description automatically generated

*Note*. The diagonal presents histograms. On the left of the diagonal, there are bivariate scatterplots with best-fit lines. On the right of the diagonal, there are correlation coefficients with stars indicating statistical significance levels. The three first columns contain the scatterplots for overall narcissism, narcissistic admiration, and narcissistic rivalry, respectively.

**Table S7**

*Self-reported Affective Contingencies Intercorrelations and Correlations With fEMG Indexed Contingencies*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Self-Reported Contingencies | | | | |
|  | Power | |  | Affiliation | |
|  | Satisfaction | Frustration |  | Satisfaction | Frustration |
| Self-Reported Contingencies |  |  |  |  |  |
| Power |  |  |  |  |  |
| Frustration | .42\*\* |  |  |  |  |
|  | [.30, .53] |  |  |  |  |
| Affiliation |  |  |  |  |  |
| Satisfaction | .24\*\* | .23\*\* |  |  |  |
|  | [.11, .37] | [.09, .35] |  |  |  |
| Frustration | .24\*\* | .57\*\* |  | .47\*\* |  |
|  | [.11, .37] | [.47, .66] |  | [.35, .57] |  |
| fEMG Indexed Contingencies |  |  |  |  |  |
| Power Game |  |  |  |  |  |
| Satisfaction, Zygomaticus | -.13 | -.12 |  | .05 | -.05 |
|  | [-.27, .01] | [-.26, .02] |  | [-.09, .19] | [-.19, .09] |
| Satisfaction, Corrugator | -.04 | -.01 |  | .03 | -.02 |
|  | [-.18, .10] | [-.15, .13] |  | [-.11, .17] | [-.16, .12] |
| Frustration, Zygomaticus | -.17\* | .03 |  | -.02 | .13 |
|  | [-.30, -.03] | [-.11, .16] |  | [-.16, .12] | [-.01, .27] |
| Frustration, Corrugator | .07 | .04 |  | -.06 | -.04 |
|  | [-.07, .20] | [-.10, .18] |  | [-.19, .08] | [-.18, .10] |
| Power Imagination |  |  |  |  |  |
| Satisfaction, Zygomaticus | .13 | .05 |  | .10 | .02 |
|  | [-.01, .26] | [-.09, .19] |  | [-.04, .23] | [-.12, .16] |
| Satisfaction, Corrugator | -.04 | -.01 |  | .02 | .06 |
|  | [-.18, .09] | [-.15, .13] |  | [-.12, .16] | [-.08, .19] |
| Frustration, Zygomaticus | .08 | .02 |  | .09 | .09 |
|  | [-.06, .21] | [-.12, .16] |  | [-.05, .23] | [-.05, .23] |
| Frustration, Corrugator | .00 | -.06 |  | .04 | -.04 |
|  | [-.14, .14] | [-.20, .08] |  | [-.10, .18] | [-.18, .10] |
| Power Images |  |  |  |  |  |
| Satisfaction, Zygomaticus | -.01 | .00 |  | .01 | .23\*\* |
|  | [-.15, .13] | [-.14, .14] |  | [-.13, .15] | [.09, .36] |
| Satisfaction, Corrugator | -.02 | .22\*\* |  | .10 | .12 |
|  | [-.16, .11] | [.09, .35] |  | [-.04, .23] | [-.01, .26] |
| Frustration, Zygomaticus | .01 | -.05 |  | -.01 | -.08 |
|  | [-.13, .15] | [-.18, .09] |  | [-.14, .13] | [-.21, .06] |
| Frustration, Corrugator | -.08 | .08 |  | .07 | .09 |
|  | [-.22, .06] | [-.06, .22] |  | [-.07, .21] | [-.05, .23] |
| Affiliation Game |  |  |  |  |  |
| Satisfaction, Zygomaticus | -.25\*\* | -.14\* |  | -.17\* | -.13 |
|  | [-.38, -.12] | [-.27, -.00] |  | [-.31, -.04] | [-.27, .01] |
| Satisfaction, Corrugator | .09 | -.03 |  | -.04 | -.01 |
|  | [-.05, .23] | [-.17, .11] |  | [-.17, .10] | [-.15, .13] |
| Frustration, Zygomaticus | -.19\*\* | -.07 |  | -.08 | -.10 |
|  | [-.32, -.06] | [-.21, .07] |  | [-.22, .06] | [-.24, .04] |
| Frustration, Corrugator | .09 | .06 |  | -.02 | .06 |
|  | [-.05, .22] | [-.08, .20] |  | [-.16, .12] | [-.07, .20] |
| Affiliation Imagination |  |  |  |  |  |
| Satisfaction, Zygomaticus | .01 | .01 |  | .03 | .10 |
|  | [-.13, .15] | [-.13, .15] |  | [-.11, .17] | [-.04, .23] |
| Satisfaction, Corrugator | -.03 | .04 |  | -.02 | -.04 |
|  | [-.17, .11] | [-.10, .18] |  | [-.16, .12] | [-.18, .10] |
| Frustration, Zygomaticus | -.07 | .00 |  | -.04 | .03 |
|  | [-.21, .07] | [-.14, .14] |  | [-.18, .10] | [-.11, .17] |
| Frustration, Corrugator | .01 | .04 |  | .00 | -.01 |
|  | [-.13, .15] | [-.10, .18] |  | [-.14, .14] | [-.14, .13] |
| Affiliation Images |  |  |  |  |  |
| Satisfaction, Zygomaticus | .03 | .05 |  | .05 | .03 |
|  | [-.11, .17] | [-.09, .19] |  | [-.09, .19] | [-.11, .16] |
| Satisfaction, Corrugator | -.11 | -.01 |  | -.12 | .01 |
|  | [-.25, .03] | [-.15, .13] |  | [-.25, .02] | [-.13, .14] |
| Frustration, Zygomaticus | .01 | .00 |  | -.02 | -.01 |
|  | [-.13, .15] | [-.14, .14] |  | [-.16, .12] | [-.15, .13] |
| Frustration, Corrugator | .00 | .11 |  | .16\* | .14\* |
|  | [-.14, .14] | [-.03, .24] |  | [.02, .29] | [.01, .28] |

*Note*. Values in square brackets indicate the 95% confidence interval for each correlation.

\* *p* < .05, \*\* *p* < .01

|  |  |  |  |
| --- | --- | --- | --- |
| **Table S8** | | | |
| *Correlations and Confidence Intervals of Overall Narcissism, Narcissistic Admiration, and Narcissistic Rivalry with Composite Scores (PAC) of fEMG Indexed Contingencies* | | | |
|  | Overall Narcissism | Narcissistic Admiration | Narcissistic Rivalry |
| fEMG Indexed Contingencies |  |  |  |
| Power Game |  |  |  |
| Satisfaction PAC | .01 | .00 | .01 |
|  | [-.13, .15] | [-.14, .14] | [-.12, .15] |
| Frustration PAC | -.16\* | -.16\* | -.14\* |
|  | [-.29, -.02] | [-.29, -.02] | [-.28, -.01] |
| Power Imagination |  |  |  |
| Satisfaction PAC | -.06 | -.05 | .10 |
|  | [-.20, .08] | [-.19, .09] | [-.04, .24] |
| Frustration PAC | -.05 | -.09 | .13 |
|  | [-.19, .09] | [-.23, .05] | [-.01, .26] |
| Power Images |  |  |  |
| Satisfaction PAC | .03 | -.02 | -.10 |
|  | [-.11, .17] | [-.15, .12] | [-.24, .04] |
| Frustration PAC | .08 | .04 | .05 |
|  | [-.06, .21] | [-.10, .18] | [-.09, .19] |
| Affiliation Game |  |  |  |
| Satisfaction PAC | -.05 | -.05 | -.16\* |
|  | [-.19, .09] | [-.19, .09] | [-.29, -.02] |
| Frustration PAC | -.06 | -.04 | -.15\* |
|  | [-.19, .09] | [-.19, .09] | [-.28, -.01] |
| Affiliation Imagination |  |  |  |
| Satisfaction PAC | -.04 | .02 | -.04 |
|  | [-.18, .10] | [-.12, .16] | [-.18, .10] |
| Frustration PAC | -.06 | -.03 | -.02 |
|  | [-.20, .08] | [-.17, .11] | [-.16, .12] |
| Affiliation Images |  |  |  |
| Satisfaction PAC | .00 | -.05 | -.17\* |
|  | [-.14, .14] | [-.19, .09] | [-.31, -.04] |
| Frustration PAC | -.01 | -.02 | -.01 |
|  | [-.15, .13] | [-.16, .12] | [-.15, .13] |

*Note*. Composite scores of fEMG Indexed Contingencies (Positive Affective Contingencies – PAC) were calculated by subtracting baseline-corrected corrugator reactivity from baseline-corrected zygomaticus reactivity.

Values in square brackets indicate the 95% confidence interval for each correlation.

\* *p* < .05, \*\* *p* < .01

|  |  |  |
| --- | --- | --- |
| **Table S9** | | |
| *Correlations and Confidence Intervals of Selected (Associated with Narcissism Indices) Composite Scores (PAC) of fEMG Indexed Contingencies with Power and Affiliation Behaviors* | | |
|  | Power Behaviors | Affiliation Behaviors |
| Power Game |  |  |
| Frustration PAC | -.07 | .07 |
|  | [-.25, .11] | [-.12, .25] |
| Affiliation Game |  |  |
| Satisfaction PAC | .01 | .15 |
|  | [-.17, .19] | [-.03, .32] |
| Frustration PAC | .12 | .06 |
|  | [-.07, .29] | [-.12, .24] |
| Affiliation Images |  |  |
| Satisfaction PAC | .00 | .20\* |
|  | [-.18, .18] | [.01, .36] |

*Note*. Composite scores of fEMG Indexed Contingencies (Positive Affective Contingencies – PAC) were calculated by subtracting baseline-corrected corrugator reactivity from baseline-corrected zygomaticus reactivity.

Values in square brackets indicate the 95% confidence interval for each correlation.

\* *p* < .05, \*\* *p* < .01

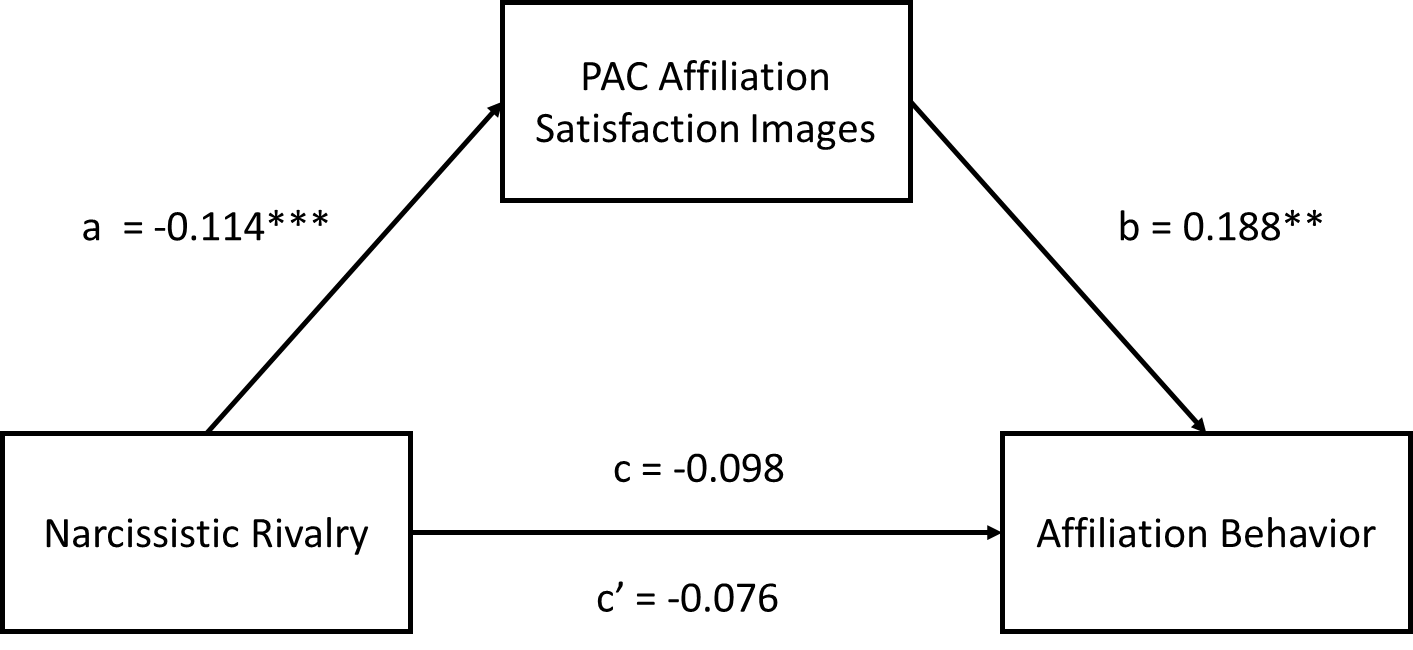
None of the above correlations was statistically significant after Bonferroni alpha correction in robustness analyses (corrected alpha = .006)

**Supplemental Mediation Analysis**

Although narcissistic rivalry was not associated with affiliation behaviors, it was associated with lower composite positive reactivity in response to affiliation satisfaction in the image presentation. Supplemental correlation analyses (Table S5) indicated that this reactivity index was significantly negatively associated with affiliation behaviors (although this relationship disappeared when using a corrected alpha level as a robustness check). We therefore conducted a mediation analysis with 5000 bootstraps to examine whether this reactivity index accounted for the association between narcissistic rivalry and affiliative behaviors (Figure S4). The overall model with narcissistic rivalry, composite positive reactivity in response to images of affiliation satisfaction, and affiliation behaviors explained approximately 6% of variance in affiliation behaviors, *F*(2, 206) = 6.73, *p* = .001. Narcissistic rivalry negatively predicted composite positive reactivity when participants viewed images of affiliation satisfaction, *B* = -0.114, *SE* = 0.045, *t*(207) *=* -2.15 , *p* = .011, which in turn positively predicted affiliation behaviors above and beyond narcissistic rivalry, *B =* 0.188, *SE* = 0.066, *t*(206) *=* 2.85, *p* = .005, with partial *r*affimageimg-affbeh·narcriv = 17, *p* = .064, 95% CI [-.01, .34]. The total effect of narcissistic rivalry on affiliation behaviors was statistically significant, *B* = -0.098, *SE* = 0.043, *t*(207) = -2.27, *p* = .024, yet the direct effect was not, *B* = -0.076, *SE* = 0.043, *t*(206) = -1.78, *p* = .077, with partial *r*narcriv-affbeh·affimageimg = -.16, *p* = .086, 95% CI [-.33, .02]. The confidence intervals of the indirect effect tentatively suggest that narcissistic rivalry was indirectly related to a lower degree of affiliation behaviors via lower composite positive reactivity when participants viewed images of affiliation satisfaction, *B =* -0.021, *SE =* 0.012, 95 % CI [-0.0470, -0.0011].

Figure S4

*Regression Coefficients for the Relationship Between Narcissistic Rivalry and Affiliation Behavior as Mediated by Positive Affective Contingencies (PAC) toward Affiliation Satisfaction Images*



*Note*.

a: Effect of Narcissistic Rivalry on PAC toward Affiliation Satisfaction Images

b: Effect of PAC toward Affiliation Satisfaction Images on Affiliation Behavior, controlling for the effect of Narcissistic Rivalry

c: Total effect of Narcissistic Rivalry on Affiliation Behavior

c’: Indirect effect of Narcissistic Rivalry on Affiliation Behavior (Mediated through PAC toward Affiliation Satisfaction Images)

\*\*indicates *p* <.01 \*\*\*indicates *p* < .001

**Supplementary References**

Dufner, M., Arslan, R. C., & Denissen, J. J. A. (2018). The unconscious side of Facebook: Do online social network profiles leak cues to users’ implicit motive dispositions? *Motivation and Emotion*, *42*(1), 79–89. https://doi.org/10.1007/s11031-017-9663-1

Dufner, M., Arslan, R. C., Hagemeyer, B., Schönbrodt, F. D., & Denissen, J. J. A. (2015). Affective contingencies in the affiliative domain: Physiological assessment, associations with the affiliation motive, and prediction of behavior. *Journal of Personality and Social Psychology*, *109*(4), 662–676. https://doi.org/10.1037/pspp0000025

Hess, U., Arslan, R., Mauersberger, H., Blaison, C., Dufner, M., Denissen, J. J. A., & Ziegler, M. (2017). Reliability of surface facial electromyography. *Psychophysiology*, *54*(1), 12–23. https://doi.org/10.1111/psyp.12676

Schönbrodt, F. D., & Gerstenberg, F. X. R. (2012). An IRT analysis of motive questionnaires: The Unified Motive Scales. *Journal of Research in Personality*, *46*(6), 725–742. https://doi.org/10.1016/j.jrp.2012.08.010

Zwick, W. R., & Velicer, W. F. (1986). Comparison of five rules for determining the number of components to retain. *Psychological Bulletin*, *99*(3), 432–442. https://doi.org/10.1037/0033-2909.99.3.432

**Data Analysis Code**

*##########################################Code For Analyses (Run from Start to End)#######################*

*#####Run the code from start to end. The analyses data file is named acn (= affective contingencies of narcissism)*

*####Load packages######*

**library**(Hmisc)

**library**(apaTables)

**library**(MASS)

**library**(reshape2)

**library**(psych)

**library**(purrr)

**library**(plyr)

**library**(dplyr)

**library**(haven)

**library**(readr)

**library**(pwr)

**library**(performance)

**library**(apa)

**if** (!requireNamespace("BiocManager", quietly = **TRUE**)) install.packages("BiocManager")

**library**(RVAideMemoire)

**library**(fitdistrplus)

options(scipen=999)

*####Load data#####*

*#main data*

acn <- readr::read\_csv("acn.csv")

*#pilot data*

pilot1 <- readr::read\_csv("pilot1.csv")

pilot2 <- readr::read\_csv("pilot2.csv")

pilot3 <- readr::read\_csv("pilot3.csv")

*####get constructs for quick coding#####*

narc <- c("narNPI\_s", "nar.admNRQ\_s" , "nar.rivNRQ\_s" )

pow\_sat\_pos\_emg <- c("pow\_sat\_gam\_pos\_emg", "pow\_sat\_sto\_pos\_emg", "pow\_sat\_pic\_pos\_emg")

pow\_sat\_neg\_emg <- c("pow\_sat\_gam\_neg\_emg", "pow\_sat\_sto\_neg\_emg", "pow\_sat\_pic\_neg\_emg")

pow\_fru\_pos\_emg <- c("pow\_fru\_gam\_pos\_emg", "pow\_fru\_sto\_pos\_emg", "pow\_fru\_pic\_pos\_emg")

pow\_fru\_neg\_emg <- c("pow\_fru\_gam\_neg\_emg", "pow\_fru\_sto\_neg\_emg", "pow\_fru\_pic\_neg\_emg")

aff\_sat\_pos\_emg <- c("aff\_sat\_gam\_pos\_emg", "aff\_sat\_sto\_pos\_emg", "aff\_sat\_pic\_pos\_emg")

aff\_sat\_neg\_emg <- c("aff\_sat\_gam\_neg\_emg", "aff\_sat\_sto\_neg\_emg", "aff\_sat\_pic\_neg\_emg")

aff\_fru\_pos\_emg <- c("aff\_fru\_gam\_pos\_emg", "aff\_fru\_sto\_pos\_emg", "aff\_fru\_pic\_pos\_emg")

aff\_fru\_neg\_emg <- c("aff\_fru\_gam\_neg\_emg", "aff\_fru\_sto\_neg\_emg", "aff\_fru\_pic\_neg\_emg")

pow\_sel <- c("pow\_gam\_pos\_sel" , "pow\_sto\_pos\_sel", "pow\_sat\_pic\_pos\_sel", "pow\_fru\_pic\_pos\_sel",

"pow\_gam\_neg\_sel" , "pow\_sto\_neg\_sel", "pow\_sat\_pic\_neg\_sel", "pow\_fru\_pic\_neg\_sel")

aff\_sel <- c("aff\_gam\_pos\_sel" , "aff\_sto\_pos\_sel", "aff\_sat\_pic\_pos\_sel", "aff\_fru\_pic\_pos\_sel",

"aff\_gam\_neg\_sel" , "aff\_sto\_neg\_sel",

"aff\_sat\_pic\_neg\_sel", "aff\_fru\_pic\_neg\_sel")

tot\_emg <- c("pow\_sat\_gam\_emg","pow\_fru\_gam\_emg","pow\_sat\_sto\_emg","pow\_fru\_sto\_emg","pow\_sat\_pic\_emg","pow\_fru\_pic\_emg",

"aff\_sat\_gam\_emg","aff\_fru\_gam\_emg","aff\_sat\_sto\_emg","aff\_fru\_sto\_emg","aff\_sat\_pic\_emg","aff\_fru\_pic\_emg")

*################################################Analyses Code#####*

*################################################Descriptives and Methods Stats######################*

*###Sample descriptives#####*

*#descriptives*

describe(acn$age\_s)

janitor::tabyl(acn$mlg\_s)*#183 german, 19 nongerman, 7 NA*

183/209*#87,55*

19/209*#9%*

7/209*#3%*

*#janitor::tabyl(acn$mlg\_s\_w2)#160 german, 15 nongerman, 34 NA*

*#160/191#84*

*#15/191#8*

*#16/191#16*

janitor::tabyl(acn$sex\_s)

137/209 *# .66 % women*

72/209 *# 34% men*

*###Reliabilities emg#############*

*##reliabilities power game####*

psych::alpha((acn[,grep("bcorr\_m\_s", names(acn))]))$total$std.alpha*#sat=.74*

item\_intercor(acn[,grep("bcorr\_m\_s", names(acn))], method = "pearson")*#0.3818934*

psych::alpha((acn[,grep("bzygo\_m\_s", names(acn))]))$total$std.alpha*#sat=.41*

item\_intercor(acn[,grep("bzygo\_m\_s", names(acn))], method = "pearson")*#0.1230245*

psych::alpha((acn[,grep("bcorr\_m\_f", names(acn))]))$total$std.alpha*#fr=.73*

item\_intercor(acn[,grep("bcorr\_m\_f", names(acn))], method = "pearson")*#0.3484086*

psych::alpha((acn[,grep("bzygo\_m\_f", names(acn))]))$total$std.alpha*#fr=.47*

item\_intercor(acn[,grep("bzygo\_m\_f", names(acn))], method = "pearson")*#0.1531476*

*##reliabilities aff game#####*

*#corrugator sat*

L.cyb.sat.corr.bcor<- dplyr::select(acn, corr\_m\_s1.bcor, corr\_m\_s2.bcor)

L.cyb.sat.corr.bcor.sh <- splitHalf(L.cyb.sat.corr.bcor,raw=**FALSE**,brute=**FALSE**,n.sample=10000,covar=**FALSE**,check.keys=**TRUE**,

key=**NULL**,ci=.05,use="pairwise")*#90. r = 0.82*

*#zygomaticus sat*

L.cyb.sat.zygo.bcor<- dplyr::select(acn, zygo\_m\_s1.bcor, zygo\_m\_s2.bcor)

splitHalf(L.cyb.sat.zygo.bcor,raw=**FALSE**,brute=**FALSE**,n.sample=10000,covar=**FALSE**,check.keys=**TRUE**,

key=**NULL**,ci=.05,use="pairwise")*#84. r = 0.72*

*#corrugator fru*

L.cyb.fru.corr.bcor<- dplyr::select(acn, corr\_m\_f1.bcor, corr\_m\_f2.bcor)

splitHalf(L.cyb.fru.corr.bcor,raw=**FALSE**,brute=**FALSE**,n.sample=10000,covar=**FALSE**,check.keys=**TRUE**,

key=**NULL**,ci=.05,use="pairwise")*#85. r = 0.74*

*#zygomaticus fru*

L.cyb.fru.zygo.bcor<- dplyr::select(acn, zygo\_m\_f1.bcor, zygo\_m\_f2.bcor)

splitHalf(L.cyb.sat.zygo.bcor,raw=**FALSE**,brute=**FALSE**,n.sample=10000,covar=**FALSE**,check.keys=**TRUE**,

key=**NULL**,ci=.05,use="pairwise")*#84. r = 0.72*

*##reliabilities power story#####*

psych::alpha((acn[, c("pow.ssaTI1\_c\_b",

"pow.ssaTI2\_c\_b",

"pow.ssaTI3\_c\_b",

"pow.ssaTI4\_c\_b",

"pow.ssaTI5\_c\_b",

"pow.ssaTI6\_c\_b",

"pow.ssaTI7\_c\_b")]))$total$std.alpha*#.95*

item\_intercor(acn[, c("pow.ssaTI1\_c\_b",

"pow.ssaTI2\_c\_b",

"pow.ssaTI3\_c\_b",

"pow.ssaTI4\_c\_b",

"pow.ssaTI5\_c\_b",

"pow.ssaTI6\_c\_b",

"pow.ssaTI7\_c\_b")], method = "pearson")*#0.72*

psych::alpha((acn[, c("pow.sfrTI1\_c\_b",

"pow.sfrTI2\_c\_b",

"pow.sfrTI3\_c\_b",

"pow.sfrTI4\_c\_b",

"pow.sfrTI5\_c\_b",

"pow.sfrTI6\_c\_b",

"pow.sfrTI7\_c\_b",

"pow.sfrTI8\_c\_b")]))$total$std.alpha*#.93*

item\_intercor(acn[, c("pow.sfrTI1\_c\_b",

"pow.sfrTI2\_c\_b",

"pow.sfrTI3\_c\_b",

"pow.sfrTI4\_c\_b",

"pow.sfrTI5\_c\_b",

"pow.sfrTI6\_c\_b",

"pow.sfrTI7\_c\_b",

"pow.sfrTI8\_c\_b")], method = "pearson")*#0.62*

psych::alpha((acn[, c("pow.ssaTI1\_z\_b",

"pow.ssaTI2\_z\_b",

"pow.ssaTI3\_z\_b",

"pow.ssaTI4\_z\_b",

"pow.ssaTI5\_z\_b",

"pow.ssaTI6\_z\_b",

"pow.ssaTI7\_z\_b")]))$total$std.alpha*#.86*

item\_intercor(acn[, c("pow.ssaTI1\_z\_b",

"pow.ssaTI2\_z\_b",

"pow.ssaTI3\_z\_b",

"pow.ssaTI4\_z\_b",

"pow.ssaTI5\_z\_b",

"pow.ssaTI6\_z\_b",

"pow.ssaTI7\_z\_b")], method = "pearson")*#0.47*

psych::alpha((acn[, c("pow.sfrTI1\_z\_b",

"pow.sfrTI2\_z\_b",

"pow.sfrTI3\_z\_b",

"pow.sfrTI4\_z\_b",

"pow.sfrTI5\_z\_b",

"pow.sfrTI6\_z\_b",

"pow.sfrTI7\_z\_b",

"pow.sfrTI8\_z\_b")]))$total$std.alpha*#.86*

item\_intercor(acn[, c("pow.sfrTI1\_z\_b",

"pow.sfrTI2\_z\_b",

"pow.sfrTI3\_z\_b",

"pow.sfrTI4\_z\_b",

"pow.sfrTI5\_z\_b",

"pow.sfrTI6\_z\_b",

"pow.sfrTI7\_z\_b",

"pow.sfrTI8\_z\_b")], method = "pearson")*#0.44*

*##reliabilities aff story#####*

psych::alpha((acn[, c("aff.ssaTI1\_c\_b",

"aff.ssaTI2\_c\_b",

"aff.ssaTI3\_c\_b",

"aff.ssaTI4\_c\_b",

"aff.ssaTI5\_c\_b",

"aff.ssaTI6\_c\_b",

"aff.ssaTI7\_c\_b")]))$total$std.alpha*#.95*

item\_intercor(acn[, c("aff.ssaTI1\_c\_b",

"aff.ssaTI2\_c\_b",

"aff.ssaTI3\_c\_b",

"aff.ssaTI4\_c\_b",

"aff.ssaTI5\_c\_b",

"aff.ssaTI6\_c\_b",

"aff.ssaTI7\_c\_b")], method = "pearson")*#0.73*

psych::alpha((acn[, c("aff.sfrTI1\_c\_b",

"aff.sfrTI2\_c\_b",

"aff.sfrTI3\_c\_b",

"aff.sfrTI4\_c\_b",

"aff.sfrTI5\_c\_b",

"aff.sfrTI6\_c\_b",

"aff.sfrTI7\_c\_b",

"aff.sfrTI8\_c\_b")]))$total$std.alpha*#.97*

item\_intercor(acn[, c("aff.sfrTI1\_c\_b",

"aff.sfrTI2\_c\_b",

"aff.sfrTI3\_c\_b",

"aff.sfrTI4\_c\_b",

"aff.sfrTI5\_c\_b",

"aff.sfrTI6\_c\_b",

"aff.sfrTI7\_c\_b",

"aff.sfrTI8\_c\_b")], method = "pearson")*#0.79*

psych::alpha((acn[, c("aff.ssaTI1\_z\_b",

"aff.ssaTI2\_z\_b",

"aff.ssaTI3\_z\_b",

"aff.ssaTI4\_z\_b",

"aff.ssaTI5\_z\_b",

"aff.ssaTI6\_z\_b",

"aff.ssaTI7\_z\_b")]))$total$std.alpha*#.88*

item\_intercor(acn[, c("aff.ssaTI1\_z\_b",

"aff.ssaTI2\_z\_b",

"aff.ssaTI3\_z\_b",

"aff.ssaTI4\_z\_b",

"aff.ssaTI5\_z\_b",

"aff.ssaTI6\_z\_b",

"aff.ssaTI7\_z\_b")], method = "pearson")*#0.51*

psych::alpha((acn[, c("aff.sfrTI1\_z\_b",

"aff.sfrTI2\_z\_b",

"aff.sfrTI3\_z\_b",

"aff.sfrTI4\_z\_b",

"aff.sfrTI5\_z\_b",

"aff.sfrTI6\_z\_b",

"aff.sfrTI7\_z\_b",

"aff.sfrTI8\_z\_b")]))$total$std.alpha*#.85*

item\_intercor(acn[, c("aff.sfrTI1\_z\_b",

"aff.sfrTI2\_z\_b",

"aff.sfrTI3\_z\_b",

"aff.sfrTI4\_z\_b",

"aff.sfrTI5\_z\_b",

"aff.sfrTI6\_z\_b",

"aff.sfrTI7\_z\_b",

"aff.sfrTI8\_z\_b")], method = "pearson")*#0.42*

*##reliabilities for pictures of power#####*

psych::alpha(acn[,c("pow.isa1\_c\_b\_w1","pow.isa2\_c\_b\_w1", "pow.isa3\_c\_b\_w1", "pow.isa4\_c\_b\_w1") ])$total$std.alpha*#.38*

item\_intercor(acn[, c("pow.isa1\_c\_b\_w1","pow.isa2\_c\_b\_w1", "pow.isa3\_c\_b\_w1", "pow.isa4\_c\_b\_w1")], method = "pearson")*#0.13*

psych::alpha(acn[,c("pow.isa1\_z\_b\_w1","pow.isa2\_z\_b\_w1", "pow.isa3\_z\_b\_w1", "pow.isa4\_z\_b\_w1") ])$total$std.alpha*#.26*

item\_intercor(acn[, c("pow.isa1\_z\_b\_w1","pow.isa2\_z\_b\_w1", "pow.isa3\_z\_b\_w1", "pow.isa4\_z\_b\_w1")], method = "pearson")*#0.08*

psych::alpha(acn[,c("pow.ifr1\_c\_b\_w1","pow.ifr2\_c\_b\_w1", "pow.ifr3\_c\_b\_w1", "pow.ifr4\_c\_b\_w1") ])$total$std.alpha*#.40*

item\_intercor(acn[, c("pow.ifr1\_c\_b\_w1","pow.ifr2\_c\_b\_w1", "pow.ifr3\_c\_b\_w1", "pow.ifr4\_c\_b\_w1")], method = "pearson")*#0.14*

psych::alpha(acn[,c("pow.ifr1\_z\_b\_w1","pow.ifr2\_z\_b\_w1", "pow.ifr3\_z\_b\_w1", "pow.ifr4\_z\_b\_w1") ])$total$std.alpha*#.21*

item\_intercor(acn[, c("pow.ifr1\_z\_b\_w1","pow.ifr2\_z\_b\_w1", "pow.ifr3\_z\_b\_w1", "pow.ifr4\_z\_b\_w1")], method = "pearson")*#0.06*

*##reliabilities for pictures of affiliation#####*

psych::alpha(acn[,c("aff.isa1\_c\_b\_w1","aff.isa2\_c\_b\_w1", "aff.isa3\_c\_b\_w1", "aff.isa4\_c\_b\_w1") ])$total$std.alpha*#.45*

item\_intercor(acn[, c("aff.isa1\_c\_b\_w1","aff.isa2\_c\_b\_w1", "aff.isa3\_c\_b\_w1", "aff.isa4\_c\_b\_w1")], method = "pearson")*#0.17*

psych::alpha(acn[,c("aff.isa1\_z\_b\_w1","aff.isa2\_z\_b\_w1", "aff.isa3\_z\_b\_w1", "aff.isa4\_z\_b\_w1") ])$total$std.alpha*#.61*

item\_intercor(acn[, c("aff.isa1\_z\_b\_w1","aff.isa2\_z\_b\_w1", "aff.isa3\_z\_b\_w1", "aff.isa4\_z\_b\_w1")], method = "pearson")*#0.28*

psych::alpha(acn[,c("aff.ifr1\_c\_b\_w1","aff.ifr2\_c\_b\_w1", "aff.ifr3\_c\_b\_w1", "aff.ifr4\_c\_b\_w1") ])$total$std.alpha*#.32*

item\_intercor(acn[, c("aff.ifr1\_c\_b\_w1","aff.ifr2\_c\_b\_w1", "aff.ifr3\_c\_b\_w1", "aff.ifr4\_c\_b\_w1")], method = "pearson")*#0.10*

psych::alpha(acn[,c("aff.ifr1\_z\_b\_w1","aff.ifr2\_z\_b\_w1", "aff.ifr3\_z\_b\_w1", "aff.ifr4\_z\_b\_w1") ])$total$std.alpha*#.27*

item\_intercor(acn[, c("aff.ifr1\_z\_b\_w1","aff.ifr2\_z\_b\_w1", "aff.ifr3\_z\_b\_w1", "aff.ifr4\_z\_b\_w1")], method = "pearson")*#0.09*

*###Descriptives narcissism#####*

*##NPI####*

psych::alpha((acn[, c("NPI01R", "NPI12R", "NPI13R", "NPI27R", "NPI30R", "NPI33R", "NPI34R", "NPI36R", "NPI04", "NPI07", "NPI09", "NPI10", "NPI18", "NPI32", "NPI40")]))$total$raw\_alpha*#.79*

item\_intercor(acn[, c("NPI01R", "NPI12R", "NPI13R", "NPI27R", "NPI30R", "NPI33R", "NPI34R", "NPI36R", "NPI04", "NPI07", "NPI09", "NPI10", "NPI18", "NPI32", "NPI40")], method = "pearson")*#0.2016005*

acn$narNPI\_s <- acn$narNPI\_s -1 *#rescale answers from 1-2 to 0-1*

describe(acn$narNPI\_s)

*##ADM####*

*#reliability*

psych::alpha((acn[, c("NARQ07", "NARQ16", "NARQ18", "NARQ03", "NARQ05", "NARQ15", "NARQ01", "NARQ02", "NARQ08")]))$total$raw\_alpha*#.85*

item\_intercor(acn[, c("NARQ07", "NARQ16", "NARQ18", "NARQ03", "NARQ05", "NARQ15", "NARQ01", "NARQ02", "NARQ08")], method = "pearson")*#0.3818934*

describe(acn$nar.admNRQ\_s)

*##RIV####*

psych::alpha((acn[, c("NARQ04", "NARQ11", "NARQ12", "NARQ06", "NARQ09", "NARQ10", "NARQ13", "NARQ14", "NARQ17")]))$total$raw\_alpha*#.83*

item\_intercor(acn[, c("NARQ04", "NARQ11", "NARQ12", "NARQ06", "NARQ09", "NARQ10", "NARQ13", "NARQ14", "NARQ17")], method = "pearson")*#0.3633304*

describe(acn$nar.rivNRQ\_s)

*###Descriptives self-reported trait reactivity#############*

*##POWER REAC####*

*#positive reactivity*

psych::alpha((acn[, c("expmot8", "expmot13", "expmot15", "expmot18", "expmot26")]))$total$raw\_alpha*#.82*

item\_intercor(acn[, c("expmot8", "expmot13", "expmot15", "expmot18", "expmot26")], method = "pearson")*#0.48*

*#neg reactivity*

psych::alpha((acn[, c("expmot12", "expmot14", "expmot20", "expmot27", "expmot21")]))$total$raw\_alpha*#.80*

item\_intercor(acn[, c("expmot12", "expmot14", "expmot20", "expmot27", "expmot21")], method = "pearson")*#0.45*

*#descriptives*

psych::describe(acn$pow.sfpXMS\_s)

psych::describe(acn$pow.frnXMS\_s)

*##AFF REAC#####*

*#positive reactivity*

psych::alpha((acn[, c("expmot2", "expmot3", "expmot4", "expmot9", "expmot19")]))$total$raw\_alpha*#.77*

item\_intercor(acn[, c("expmot2", "expmot3", "expmot4", "expmot9", "expmot19")], method = "pearson")*#0.41*

*#neg reactivity*

psych::alpha((acn[, c("expmot1", "expmot5", "expmot16", "expmot23", "expmot29")]))$total$raw\_alpha*#.78*

item\_intercor(acn[, c("expmot1", "expmot5", "expmot16", "expmot23", "expmot29")], method = "pearson")*#0.43*

*#descriptives*

psych::describe(acn$aff.sfpXMS\_s)

psych::describe(acn$aff.frnXMS\_s)

*###Descriptives image self-reported reactions#####*

*##AFF SAT####*

*#PA*

psych::alpha((acn[,c("affiliation14.jpg\_pos","affiliation10.jpg\_pos","affiliation5.jpg\_pos","affiliation6.jpg\_pos")])) *#.78*

item\_intercor(acn[, c("affiliation14.jpg\_pos","affiliation10.jpg\_pos","affiliation5.jpg\_pos","affiliation6.jpg\_pos")], method = "pearson")*#0.47*

*#NA*

psych::alpha((acn[,c("affiliation14.jpg\_neg","affiliation10.jpg\_neg","affiliation5.jpg\_neg","affiliation6.jpg\_neg")])) *#.45*

item\_intercor(acn[, c("affiliation14.jpg\_neg","affiliation10.jpg\_neg","affiliation5.jpg\_neg","affiliation6.jpg\_neg")], method = "pearson")*#0.19*

describe(acn$aff.isaPOS\_l)

describe(acn$aff.isaNEG\_l)

*##AFF FRU#####*

*#PA*

psych::alpha((acn[,c("non-affiliation4.jpg\_pos","non-affiliation8.jpg\_pos","non-affiliation3.jpg\_pos","non-affiliation5.jpg\_pos")]))*#.70*

item\_intercor(acn[, c("non-affiliation4.jpg\_pos","non-affiliation8.jpg\_pos","non-affiliation3.jpg\_pos","non-affiliation5.jpg\_pos")], method = "pearson")*#0.39*

*#NA*

psych::alpha((acn[,c("non-affiliation4.jpg\_neg","non-affiliation8.jpg\_neg","non-affiliation3.jpg\_neg","non-affiliation5.jpg\_neg")]))*#.76*

item\_intercor(acn[, c("non-affiliation4.jpg\_neg","non-affiliation8.jpg\_neg","non-affiliation3.jpg\_neg","non-affiliation5.jpg\_neg")], method = "pearson")*#0.45*

describe(acn$aff.ifrPOS\_l)

describe(acn$aff.ifrNEG\_l)

*##POW SAT####*

*#PA*

psych::alpha((acn[,c("power12.jpg\_pos","power1.jpg\_pos","power3.jpg\_pos","power15.jpg\_pos")]))*# .60*

item\_intercor(acn[, c("power12.jpg\_pos","power1.jpg\_pos","power3.jpg\_pos","power15.jpg\_pos")], method = "pearson")*#0.27*

*#NA*

psych::alpha((acn[,c("power12.jpg\_neg","power1.jpg\_neg","power3.jpg\_neg","power15.jpg\_neg")]))*# .52*

item\_intercor(acn[, c("power12.jpg\_neg","power1.jpg\_neg","power3.jpg\_neg","power15.jpg\_neg")], method = "pearson")*#0.22*

describe(acn$pow.isaPOS\_l)

describe(acn$pow.isaNEG\_l)

*##POW FRU####*

*#PA*

psych::alpha((acn[,c("non-power11.jpg\_pos","non-power10.jpg\_pos","non-power12.jpg\_pos","non-power14.jpg\_pos")]))*#.54*

item\_intercor(acn[, c("non-power11.jpg\_pos","non-power10.jpg\_pos","non-power12.jpg\_pos","non-power14.jpg\_pos")], method = "pearson")*#0.24*

*#NA*

psych::alpha((acn[,c("non-power11.jpg\_neg","non-power10.jpg\_neg","non-power12.jpg\_neg","non-power14.jpg\_neg")]))*#.70*

item\_intercor(acn[, c("non-power11.jpg\_neg","non-power10.jpg\_neg","non-power12.jpg\_neg","non-power14.jpg\_neg")], method = "pearson")*#0.36*

describe(acn$pow.ifrPOS\_l)

describe(acn$pow.ifrNEG\_l)

*###Descriptives daily affect######*

*##Daily PA####*

psych::alpha((acn[,c( "PANAS1", "PANAS3", "PANAS5", "PANAS9", "PANAS10", "PANAS12", "PANAS14", "PANAS16", "PANAS17", "PANAS19")]))$total$raw\_alpha*#.94*

item\_intercor(acn[, c( "PANAS1", "PANAS3", "PANAS5", "PANAS9", "PANAS10", "PANAS12", "PANAS14", "PANAS16", "PANAS17", "PANAS19")], method = "pearson")*#0.63*

describe(acn$paf\_av\_d)

*##Daily NA#####*

psych::alpha((acn[,c( "PANAS2", "PANAS4", "PANAS6", "PANAS7", "PANAS8", "PANAS11", "PANAS13", "PANAS15", "PANAS18", "PANAS20")]))$total$raw\_alpha*#.91*

item\_intercor(acn[, c( "PANAS2", "PANAS4", "PANAS6", "PANAS7", "PANAS8", "PANAS11", "PANAS13", "PANAS15", "PANAS18", "PANAS20")], method = "pearson")*#0.54*

psych::describe(acn$naf\_av\_d)

*###Descriptives interaction behaviors######*

*#run factor analysis*

png(file="Parallel Analysis Beh.png",

width=10, height=6, units="in", res=600)

fa.par<- fa.parallel(acn[,c("gea\_o\_w2",

"ang\_o\_w2r",

"smi\_o\_w2",

"lgh\_o\_w2",

"vcw\_o\_w2",

"vcl\_o\_w2",

"dis\_o\_w2",

"fri\_o\_w2",

"dom\_o\_w2",

"boa\_o\_w2",

"atm\_o\_w2"

)], fm = 'ml', fa= "fa", sim = T, n.iter = 300)*# 2 factors*

dev.off()

beh.fact.foc<- psych::fa(acn[,c("gea\_o\_w2",

"dom\_o\_w2",

"boa\_o\_w2",

"vcl\_o\_w2",

"dis\_o\_w2",

"ang\_o\_w2r",

"smi\_o\_w2",

"lgh\_o\_w2",

"vcw\_o\_w2",

"fri\_o\_w2",

"atm\_o\_w2")], rotate = "oblimin", 2, fm="ml" )

summary(beh.fact.foc)*#correlation=.03*

print(beh.fact.foc$loadings, cutoff= 0.3)

print(beh.fact.foc$loadings, cutoff= 0)

beh.fact.foc$Vaccounted

*#inter-rater reliability for each item*

*#"ang\_o\_w2"*

psych::alpha(acn[,c("Ot","Oh", "Oj") ])$total$std.alpha*#.46*

*#"smi\_o\_w2"*

psych::alpha(acn[,c("Pt","Ph", "Pj") ])$total$std.alpha*#.77*

*#"lgh\_o\_w2"*

psych::alpha(acn[,c("Qt","Qh", "Qj") ])$total$std.alpha*#.80*

*#"vcw\_o\_w2"*

psych::alpha(acn[,c("St","Sh", "Sj") ])$total$std.alpha*#.71*

*#"atm\_o\_w2"*

psych::alpha(acn[,c("Zt","Zh", "Zj") ])$total$std.alpha*#.71*

*#"fri\_o\_w2"*

psych::alpha(acn[,c("Abt","Abh", "Abj") ])$total$std.alpha*#.70*

*#"gea\_o\_w2"*

psych::alpha(acn[,c("@Gt","Gh", "Gj") ])$total$std.alpha*#.88*

*#"vcl\_o\_w2"*

psych::alpha(acn[,c("Tt","Th", "Tj") ])$total$std.alpha*#.79*

*#"dis\_o\_w2"*

psych::alpha(acn[,c("Wt","Wh", "Wj") ])$total$std.alpha*#.64*

*#"dom\_o\_w2"*

psych::alpha(acn[,c("Act","Ach", "Acj") ])$total$std.alpha*#.68*

*#"boa\_o\_w2"*

psych::alpha(acn[,c("Adt","Adh", "Adj") ])$total$std.alpha*#.71*

*#factored behaviors reliabilities*

*#average inter-rater reliability affiliation*

(0.46 + 0.77 + 0.80 + 0.71 + 0.71 + 0.70)/6*#.69*

*#average inter-rater reliability power*

(0.88 + 0.79 + 0.64 + 0.68 + 0.71)/5*#.72*

*#reliabilities*

psych::alpha((acn[, c("smi\_o\_w2","lgh\_o\_w2", "vcw\_o\_w2","ang\_o\_w2r", "fri\_o\_w2","atm\_o\_w2")]))*#alpha= .85*

item\_intercor(acn[, c( "smi\_o\_w2","lgh\_o\_w2", "vcw\_o\_w2","ang\_o\_w2r", "fri\_o\_w2","atm\_o\_w2")], method = "pearson")*#0.48*

psych::alpha((acn[, c("gea\_o\_w2", "vcl\_o\_w2", "dis\_o\_w2", "dom\_o\_w2", "boa\_o\_w2")]))*#alpha= .77*

item\_intercor(acn[, c("gea\_o\_w2", "vcl\_o\_w2", "dis\_o\_w2", "dom\_o\_w2", "boa\_o\_w2")], method = "pearson")*#0.42*

*#descriptives*

describe(acn$affbehtrue)

describe(acn$powbehtrue)

*###Power analyses####*

*#study sample size*

pwr::pwr.r.test(n=209, sig.level = 0.05, r = .21)*#power=.87*

*#wave 1, self-reports w/self-reports*

pwr::pwr.r.test(n=207, sig.level = 0.05, r = .21)*#power=.86*

*#wave 1, self/reports w/emg*

pwr::pwr.r.test(n=199, sig.level = 0.05, r = .21)*#power=.85*

*#wave 1 with wave 2, self-reports w/behavior*

pwr::pwr.r.test(n=123, sig.level = 0.05, r = .21)*# power=.65*

*#wave 1 with wave 2, emg w/behavior*

pwr::pwr.r.test(n=117, sig.level = 0.05, r = .21)*# power=.63*

*###Participant attrition analyses####*

*##Differences between W1 and W2 lab data: 0=did not attend w2 lab, 1=attended both w1 and w2 lab*

janitor::tabyl(acn$partbeh)

*#age*

t.test(acn$age\_s ~ factor(acn$partbeh))

*#sex*

chisq.test(factor(acn$sex\_s), factor(acn$partbeh))

*#ethnicity*

summary(aov(mlg\_s ~ factor(acn$partbeh), data=acn))

*#Narcissism*

t.test(acn$narNPI\_s ~ factor(acn$partbeh))

t.test(acn$nar.admNRQ\_s ~ factor(acn$partbeh))

t.test(acn$nar.rivNRQ\_s ~ factor(acn$partbeh))

*#Self-reported contingencies*

*#power*

t.test(acn$pow.sfpXMS\_s ~ factor(acn$partbeh))*#higher power reactivity in W1*

describeBy(acn$pow.sfpXMS\_s, acn$partbeh)

t.test(acn$pow.frnXMS\_s ~ factor(acn$partbeh))

*#affiliation*

t.test(acn$aff.sfpXMS\_s ~ factor(acn$partbeh))

t.test(acn$aff.frnXMS\_s ~ factor(acn$partbeh))

*#emg contingencies*

*#power*

t.test(acn$pow\_sat\_gam\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_sat\_sto\_pos\_emg ~ factor(acn$partbeh))*#higher story sat pos reactivity w1*

describeBy(acn$pow\_sat\_sto\_pos\_emg, acn$partbeh)

t.test(acn$pow\_sat\_pic\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_sat\_gam\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_sat\_sto\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_sat\_pic\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_fru\_gam\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_fru\_sto\_pos\_emg ~ factor(acn$partbeh))*#higher story fru pos reactivity w1*

describeBy(acn$pow\_fru\_sto\_pos\_emg, acn$partbeh)

t.test(acn$pow\_fru\_pic\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_fru\_gam\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_fru\_sto\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$pow\_fru\_pic\_neg\_emg ~ factor(acn$partbeh))

*#affiliation*

t.test(acn$aff\_sat\_gam\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_sat\_sto\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_sat\_pic\_pos\_emg ~ factor(acn$partbeh))*#higher pic sat pos reactivity w1*

describeBy(acn$aff\_sat\_pic\_pos\_emg, acn$partbeh)

t.test(acn$aff\_sat\_gam\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_sat\_sto\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_sat\_pic\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_fru\_gam\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_fru\_sto\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_fru\_pic\_pos\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_fru\_gam\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_fru\_sto\_neg\_emg ~ factor(acn$partbeh))

t.test(acn$aff\_fru\_pic\_neg\_emg ~ factor(acn$partbeh))

*###Validation of Measures####*

*##Pilot Validation experimental measures#########*

*#Pilot 1. Cyberball, politician, affiliation imagination#####*

*#rating means and sd*

psych::describe(pilot1[,c("politician.pow", "politician.aff",

"cyb.pow", "cyb.aff",

"aff.fik.pow", "aff.fik.aff")])

*#power game*

t.test(pilot1$politician.pow, pilot1$politician.aff, paired=T)

*#affiliation game*

t.test(pilot1$cyb.pow, pilot1$cyb.aff, paired=T)

*#affiliation imagination*

t.test(pilot1$aff.fik.pow, pilot1$aff.fik.aff, paired=T)

*#Pilot 2. Power Imagination #####*

psych::describe(pilot2[,c("pw3", "aff3")])

t.test(pilot2$pw3, pilot2$aff3, paired=T)

*#Pilot 3. Satisfaction Images ##########*

*#affiliation images*

imagepilot$aff\_affsatpics <- rowMeans(imagepilot[,c("aff\_affisa1" ,"aff\_affisa2" ,"aff\_affisa3" ,"aff\_affisa4")], na.rm=T)

imagepilot$pow\_affsatpics <- rowMeans(imagepilot[,c("pow\_affisa1" ,"pow\_affisa2" ,"pow\_affisa3" ,"pow\_affisa4")], na.rm=T)

t.test(imagepilot$pow\_affsatpics, imagepilot$aff\_affsatpics, paired=T)

*#power images*

imagepilot$aff\_powsatpics <- rowMeans(imagepilot[,c("aff\_powisa1" ,"aff\_powisa2" ,"aff\_powisa3" ,"aff\_powisa4")], na.rm=T)

imagepilot$pow\_powsatpics <- rowMeans(imagepilot[,c("pow\_powisa1" ,"pow\_powisa2" ,"pow\_powisa3" ,"pow\_powisa4")], na.rm=T)

t.test(imagepilot$pow\_powsatpics, imagepilot$aff\_powsatpics, paired=T)

psych::describe(imagepilot[,c("pow\_powsatpics", "aff\_powsatpics",

"aff\_affsatpics", "pow\_affsatpics")])

*##Validation self-report scales#####*

*#run factor analysis*

png(file="fa-sreports.png",

width=10, height=6, units="in", res=600)

fa.sreps<- fa.parallel(acn[,c("expmot8", "expmot13", "expmot15", "expmot18", "expmot26",*#pow satisf*

"expmot12", "expmot14", "expmot20", "expmot21", "expmot27",*#pow frust*

"expmot2", "expmot3", "expmot4", "expmot9", "expmot19",*#aff satisf*

"expmot1", "expmot5", "expmot16", "expmot23", "expmot29"*#aff fru*

)], fm = 'ml', fa = 'fa', sim = T, n.iter = 300)*# 4 factors*

dev.off()

react.fact.foc<- psych::fa(acn[,c("expmot8", "expmot13", "expmot15", "expmot18", "expmot26",*#pow satisf*

"expmot12", "expmot14", "expmot20", "expmot21", "expmot27",*#pow frust*

"expmot2", "expmot3", "expmot4", "expmot9", "expmot19",*#aff satisf*

"expmot1", "expmot5", "expmot16", "expmot23", "expmot29"*#aff fru*

)], rotate = "oblimin", 4, fm="ml" )

summary(react.fact.foc)*#*

print(react.fact.foc$loadings, cutoff= 0.3)

print(react.fact.foc$loadings, cutoff= 0)

react.fact.foc$Vaccounted

*###correlations with UMS###*

validityreaccorrs <- apa.cor.table(as.matrix(acn[,c("pow.sfpXMS\_s", "pow.frnXMS\_s","aff.sfpXMS\_s", "aff.frnXMS\_s",

"affUMS\_s", "powUMS\_s")]), landscape = **TRUE**)

validityreaccorrs

*################################################Main Analyses######################*

*###Break down the correlation results#########*

*#corrs*

maincorrs <- Hmisc::rcorr(as.matrix(acn[,c("narNPI\_s", "nar.admNRQ\_s" , "nar.rivNRQ\_s",

"pow.sfpXMS\_s", "pow.frnXMS\_s","aff.sfpXMS\_s", "aff.frnXMS\_s",

pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg)]))

maincorrs

*#focused table to test candidates for mediation for the 123 ppts with behavioral data*

Hmisc::rcorr(as.matrix(acn[,c("narNPI\_s", "nar.admNRQ\_s" , "nar.rivNRQ\_s" , "pow.sfpXMS\_s", "pow.frnXMS\_s","aff.frnXMS\_s",

"pow\_fru\_gam\_pos\_emg","aff\_sat\_gam\_pos\_emg", "aff\_fru\_gam\_pos\_emg", "aff\_sat\_pic\_pos\_emg","powbehtrue", "affbehtrue")]))

*#focused table to test correlation candidates for mediation, total emg for the 123 ppts with behavioral data*

Hmisc::rcorr(as.matrix(acn[,c( "pow\_fru\_gam\_emg","aff\_sat\_gam\_emg", "aff\_fru\_gam\_emg", "aff\_sat\_pic\_emg","powbehtrue" ,"affbehtrue")]))

*#correlations betwen self-reported reactivity indices*

cor.test(acn$aff.sfpXMS\_s, acn$aff.frnXMS\_s)

cor.test(acn$pow.sfpXMS\_s, acn$pow.frnXMS\_s)

*#correlate self-reported reactivity with lab self-reports*

Hmisc::rcorr(as.matrix(acn[,c("aff.sfpXMS\_s","aff.frnXMS\_s", "pow.sfpXMS\_s", "pow.frnXMS\_s",pow\_sel,aff\_sel)]))

*###Mediations with behaviors, N=123######*

*##Only positive affect sat + power for NPI, ADM, RIV*

*##npi [partial correlations]*

RVAideMemoire::pcor.test(acn$powbehtrue, acn$narNPI\_s, acn$pow.sfpXMS\_s)*#pcor npi powbeh*

RVAideMemoire::pcor.test(acn$powbehtrue, acn$pow.sfpXMS\_s, acn$narNPI\_s)*#pcor powsat powbeh*

*##npi no mediation*

npimediatesat <- psych::mediate(powbehtrue ~ narNPI\_s + (pow.sfpXMS\_s), n.iter = 5000, data=acn)

npimediatesat$boot

*#npimediatesat$indirect*

npimediatesat$direct

npimediatesat$total

print(npimediatesat, digits = 4, short=F)*#sig*

summary(npimediatesat, digits = 4, short=F)*#nonsig*

*##adm [partial correlations]*

RVAideMemoire::pcor.test(acn$powbehtrue, acn$nar.admNRQ\_s, acn$pow.sfpXMS\_s)*#pcor adm powbeh*

RVAideMemoire::pcor.test(acn$powbehtrue, acn$pow.sfpXMS\_s, acn$nar.admNRQ\_s)*#pcor powsat powbeh*

*##adm no mediation*

admmediatesat <- psych::mediate(powbehtrue ~ nar.admNRQ\_s + (pow.sfpXMS\_s), n.iter = 5000,data=acn)

admmediatesat$boot

*#admmediatesat$indirect*

summary(admmediatesat, digits = 4, short=F)*#nonsig*

*##riv [partial correlations]*

RVAideMemoire::pcor.test(acn$powbehtrue, acn$nar.rivNRQ\_s, acn$pow.sfpXMS\_s)*#pcor riv powbeh*

RVAideMemoire::pcor.test(acn$powbehtrue, acn$pow.sfpXMS\_s, acn$nar.rivNRQ\_s)*#pcor powsat powbeh*

*##riv full mediation*

rivmediatesat <- psych::mediate(powbehtrue ~ nar.rivNRQ\_s + (pow.sfpXMS\_s), n.iter = 5000,data=acn)

*#rivmediatesat$indirect*

summary(rivmediatesat, digits = 4, short=F)*#full mediation*

print(rivmediatesat, short = F)

rivmediatesat$boot

psych::mediate.diagram(rivmediatesat,show.c=T, digits=3)

*###Differences between correlations for power vs affiliation -reactivity and behavior- in narcissism (see Steiger, Case A)#######*

*###below, the formula is: r.test(samplesize, correlation1[e.g., narcissism-affiliation], correlation2[e.g., narcissism-power], correlation3[given the correlation between power and affiliation] )*

*###Narcissism-self-reported contingencies####*

*##Narcissism, reported positive satisfaction reactivity (differences pow>aff)####*

cor.test(acn$pow.sfpXMS\_s, acn$aff.sfpXMS\_s)*#correlation = 0.24169*

*#npi*

cor.test(acn$narNPI\_s, acn$pow.sfpXMS\_s)*#correlation = 0.4859883*

cor.test(acn$narNPI\_s, acn$aff.sfpXMS\_s)*#correlation = 0.003512425*

print(r.test(207,0.4859883,0.003512425,0.241692), digits = 5)*# t value 6.40 with probability < 0.000000001*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow.sfpXMS\_s)*#correlation = 0.5197196*

cor.test(acn$nar.admNRQ\_s, acn$aff.sfpXMS\_s)*#correlation = 0.08254378*

print ( r.test(207,0.5197196,0.08254378,0.241692), digits = 5 )*#t value 5.86 with probability < 0.000000018*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow.sfpXMS\_s)*#correlation = 0.4492514*

cor.test(acn$nar.rivNRQ\_s, acn$aff.sfpXMS\_s)*#correlation = 0.01591498*

print ( r.test(207,0.4492514,0.01591498,0.241692), digits = 5 )*#t value 5.61 with probability < 0.000000064*

*##Narcissism, reported negative frustration reactivity (no differences)#####*

cor.test(acn$pow.frnXMS\_s, acn$aff.frnXMS\_s)*#correlation = 0.5707991*

*#npi*

cor.test(acn$narNPI\_s, acn$pow.frnXMS\_s)*#correlation = 0.1267104*

cor.test(acn$narNPI\_s, acn$aff.frnXMS\_s)*#correlation = 0.04133546*

print ( r.test(207,0.1267104,0.04133546,0.5707991 ), digits = 5 )*# t value 1.32751 with probability < 0.18582*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow.frnXMS\_s)*#correlation = 0.1048763*

cor.test(acn$nar.admNRQ\_s, acn$aff.frnXMS\_s)*#correlation = 0.04113252*

print (r.test(207,0.1048763,0.04113252,0.5707991 ), digits = 5 )*# t value 0.98822 with probability < 0.32421*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow.frnXMS\_s)*#correlation = 0.3128772*

cor.test(acn$nar.rivNRQ\_s, acn$aff.frnXMS\_s)*#correlation = 0.1930469*

print ( r.test(207, 0.3128772, 0.1930469, 0.5707991 ), digits = 5 )*# t value 1.94128 with probability < 0.053601*

*###Narcissism-emg contingencies####*

*##games, positive satisfaction reactivity (no differences)####*

cor.test(acn$pow\_sat\_gam\_pos\_emg, acn$aff\_sat\_gam\_pos\_emg)*#correlation = -0.03632365*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_sat\_gam\_pos\_emg)*#0.006320639*

cor.test(acn$narNPI\_s, acn$aff\_sat\_gam\_pos\_emg)*#-0.04383588*

print ( r.test(199,0.006320639,-0.04383588,-0.03632365), digits = 5)*# t value 0.48817 with probability < 0.62597*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_sat\_gam\_pos\_emg)*#-0.005925573*

cor.test(acn$nar.admNRQ\_s, acn$aff\_sat\_gam\_pos\_emg)*#-0.05994164*

print ( r.test(199,-0.005925573 , -0.05994164 ,-0.03632365), digits = 5)*# t value 0.52608 with probability < 0.59943*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_sat\_gam\_pos\_emg)*#-0.03979421*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_sat\_gam\_pos\_emg)*#-0.1752908*

print ( r.test(199,-0.03979421 ,-0.1752908 ,-0.03632365), digits = 5)*# t value 1.33543 with probability < 0.18328*

*##games, negative satisfaction reactivity (no differences)####*

cor.test(acn$pow\_sat\_gam\_neg\_emg, acn$aff\_sat\_gam\_neg\_emg)*#correlation = -0.09871707*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_sat\_gam\_neg\_emg)*#-0.009757783*

cor.test(acn$narNPI\_s, acn$aff\_sat\_gam\_neg\_emg)*#0.03630608*

print( r.test(199,-0.009757783,0.03630608,-0.09871707), digits = 5)*# t value -0.43531 with probability < 0.66382*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_sat\_gam\_neg\_emg)*#-0.004538559*

cor.test(acn$nar.admNRQ\_s, acn$aff\_sat\_gam\_neg\_emg)*#0.02378517*

print ( r.test(199,-0.004538559 , 0.02378517 ,-0.09871707), digits = 5)*#t value -0.26757 with probability < 0.78931*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_sat\_gam\_neg\_emg)*#-0.07790171*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_sat\_gam\_neg\_emg)*#0.07640517*

print ( r.test(199,-0.07790171, 0.07640517 ,-0.09871707), digits = 5)*# t value -1.46528 with probability < 0.14445*

*##games, positive frustration reactivity (no differences)####*

cor.test(acn$pow\_sat\_gam\_pos\_emg, acn$aff\_sat\_gam\_pos\_emg)*#correlation = -0.03632365*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_sat\_gam\_pos\_emg)*#0.006320639*

cor.test(acn$narNPI\_s, acn$aff\_sat\_gam\_pos\_emg)*#-0.04383588*

print( r.test(199,0.006320639 ,-0.04383588,-0.03632365 ), digits = 5)*# t value 0.48817 with probability < 0.62597*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_sat\_gam\_pos\_emg)*#-0.004538559*

cor.test(acn$nar.admNRQ\_s, acn$aff\_sat\_gam\_pos\_emg)*#0.02378517*

print ( r.test(199,-0.004538559 , 0.02378517,-0.03632365 ), digits = 5)*#t value -0.27551 with probability < 0.78322*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_sat\_gam\_pos\_emg)*#-0.07790171*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_sat\_gam\_pos\_emg)*#0.07640517*

print ( r.test(199,-0.07790171, 0.07640517 ,-0.03632365 ), digits = 5)*# t value -1.50925 with probability < 0.13285*

*##games, negative frustration reactivity (no differences)####*

cor.test(acn$pow\_fru\_gam\_neg\_emg, acn$aff\_fru\_gam\_neg\_emg)*#correlation = -0.03202302*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_fru\_gam\_neg\_emg)*#-0.009757783*

cor.test(acn$narNPI\_s, acn$aff\_fru\_gam\_neg\_emg)*#0.03630608*

print ( r.test(199,-0.009757783,0.03630608,-0.03202302 ), digits = 5)*# t value -0.44917 with probability < 0.65381*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_fru\_gam\_neg\_emg)*#-0.004538559*

cor.test(acn$nar.admNRQ\_s, acn$aff\_fru\_gam\_neg\_emg)*#0.02378517*

print ( r.test(199,-0.004538559 , 0.02378517 ,-0.03202302 ), digits = 5)*# t value -0.27608 with probability < 0.78278*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_fru\_gam\_neg\_emg)*#-0.07790171*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_fru\_gam\_neg\_emg)*#0.07640517*

print ( r.test(199,-0.07790171, 0.07640517 ,-0.03202302 ), digits = 5)*# t value -1.51242 with probability < 0.13204*

*##stories, positive satisfaction reactivity (no differences)####*

cor.test(acn$pow\_sat\_sto\_pos\_emg, acn$aff\_sat\_sto\_pos\_emg)*#correlation = 0.09373772*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_sat\_sto\_pos\_emg)*#-0.05448428*

cor.test(acn$narNPI\_s, acn$aff\_sat\_sto\_pos\_emg)*#0.01247219*

print ( r.test(198, -0.05448428 ,0.01247219 ,0.09373772 ), digits = 5)*# t value -0.69558 with probability < 0.48752*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_sat\_sto\_pos\_emg)*#-0.1042714*

cor.test(acn$nar.admNRQ\_s, acn$aff\_sat\_sto\_pos\_emg)*#0.05692102*

print ( r.test(198,-0.1042714, 0.05692102 ,0.09373772 ), digits = 5)*#t value -1.68475 with probability < 0.093637*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_sat\_sto\_pos\_emg)*#0.06027144*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_sat\_sto\_pos\_emg)*#-0.02799798*

print ( r.test(198,0.06027144 ,-0.02799798 ,0.09373772 ), digits = 5)*# t value 0.91771 with probability < 0.35991*

*##stories, negative satisfaction reactivity (no differences)####*

cor.test(acn$pow\_sat\_sto\_neg\_emg, acn$aff\_sat\_sto\_neg\_emg)*#correlation = 0.4861043*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_sat\_sto\_neg\_emg)*#0.04046154*

cor.test(acn$narNPI\_s, acn$aff\_sat\_sto\_neg\_emg)*#0.08166316*

print( r.test(198,0.04046154,0.08166316 ,0.4861043 ), digits = 5)*# t value -0.56933 with probability < 0.56979*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_sat\_sto\_neg\_emg)*#-0.01425468*

cor.test(acn$nar.admNRQ\_s, acn$aff\_sat\_sto\_neg\_emg)*#0.03081932*

print ( r.test(198,-0.01425468 , 0.03081932 ,0.4861043 ), digits = 5)*# t value -0.6215 with probability < 0.535*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_sat\_sto\_neg\_emg)*#-0.08724473*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_sat\_sto\_neg\_emg)*#0.03451611*

print ( r.test(198,-0.08724473, 0.03451611,0.4861043 ), digits = 5)*# t value -1.69013 with probability < 0.092601*

*##stories, positive frustration reactivity (no differences)####*

cor.test(acn$pow\_fru\_sto\_pos\_emg, acn$aff\_fru\_sto\_pos\_emg)*#correlation = 0.1047565*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_fru\_sto\_pos\_emg)*#0.004964968*

cor.test(acn$narNPI\_s, acn$aff\_fru\_sto\_pos\_emg)*#0.003192284*

print( r.test(198,0.004964968 ,0.003192284,0.1047565 ), digits = 5)*# t value 0.0185 with probability < 0.98526*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_fru\_sto\_pos\_emg)*#-0.06649647*

cor.test(acn$nar.admNRQ\_s, acn$aff\_fru\_sto\_pos\_emg)*#0.009670184*

print ( r.test(198,-0.06649647 , 0.009670184,0.1047565 ), digits = 5)*# t value -0.79663 with probability < 0.42663*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_fru\_sto\_pos\_emg)*#0.1142839*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_fru\_sto\_pos\_emg)*#-0.005904208*

print ( r.test(198,0.1142839 , -0.005904208 ,0.1047565 ), digits = 5)*# t value 1.26208 with probability < 0.20843*

*##stories, negative frustration reactivity (no differences)####*

cor.test(acn$pow\_fru\_sto\_neg\_emg, acn$aff\_fru\_sto\_neg\_emg)*#correlation = -0.4948813*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_fru\_sto\_neg\_emg)*#0.07976043*

cor.test(acn$narNPI\_s, acn$aff\_fru\_sto\_neg\_emg)*#0.03630608*

print ( r.test(198,0.07976043 ,0.03630608,-0.4948813 ), digits = 5)*# t value 0.3521 with probability < 0.72514*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_fru\_sto\_neg\_emg)*#0.06746075*

cor.test(acn$nar.admNRQ\_s, acn$aff\_fru\_sto\_neg\_emg)*#0.0439935*

print ( r.test(198,0.06746075, 0.0439935 ,-0.4948813 ), digits = 5)*# t value 0.19006 with probability < 0.84946*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_fru\_sto\_neg\_emg)*#-0.07826237*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_fru\_sto\_neg\_emg)*#0.02463365*

print ( r.test(198,-0.07826237, 0.024633657 ,-0.4948813 ), digits = 5)*# t value -0.833 with probability < 0.40586*

*##images, positive satisfaction reactivity (no differences)####*

cor.test(acn$pow\_sat\_pic\_pos\_emg, acn$aff\_sat\_pic\_pos\_emg)*#correlation = 0.4363611*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_sat\_pic\_pos\_emg)*#-0.05107531*

cor.test(acn$narNPI\_s, acn$aff\_sat\_pic\_pos\_emg)*#-0.06170251*

print ( r.test(199, -0.05107531 ,-0.06170251 ,0.4363611), digits = 5)*# t value 0.14042 with probability < 0.88847*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_sat\_pic\_pos\_emg)*#-0.06411443*

cor.test(acn$nar.admNRQ\_s, acn$aff\_sat\_pic\_pos\_emg)*#-0.0794921*

print ( r.test(199,-0.06411443, -0.0794921 ,0.4363611 ), digits = 5)*# t value 0.20347 with probability < 0.83898*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_sat\_pic\_pos\_emg)*#-0.1325079*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_sat\_pic\_pos\_emg)*#-0.1466099*

print ( r.test(199,-0.1325079 ,-0.1466099 ,0.4363611 ), digits = 5)*# t value 0.18833 with probability < 0.85081*

*##images, negative satisfaction reactivity (no differences)####*

cor.test(acn$pow\_sat\_pic\_neg\_emg, acn$aff\_sat\_pic\_neg\_emg)*#correlation = 0.2855078*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_sat\_pic\_neg\_emg)*#-0.1368915*

cor.test(acn$narNPI\_s, acn$aff\_sat\_pic\_neg\_emg)*#-0.1219772*

print( r.test(198,-0.1368915 ,-0.1219772 ,0.2855078 ), digits = 5)*# t value -0.17626 with probability < 0.86028*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_sat\_pic\_neg\_emg)*#-0.06822402*

cor.test(acn$nar.admNRQ\_s, acn$aff\_sat\_pic\_neg\_emg)*#0.03081932*

print ( r.test(198,-0.06822402 , -0.03745899 ,0.2855078 ), digits = 5)*# t value -0.36019 with probability < 0.7191*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_sat\_pic\_neg\_emg)*#-0.01897135*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_sat\_pic\_neg\_emg)*#0.1337497*

print ( r.test(198,-0.01897135, 0.1337497,0.2855078 ), digits = 5)*# t value -1.80288 with probability < 0.072951*

*##images, positive frustration reactivity (no differences)####*

cor.test(acn$pow\_fru\_pic\_pos\_emg, acn$aff\_fru\_pic\_pos\_emg)*#correlation = 0.3265573*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_fru\_pic\_pos\_emg)*#0.01561339*

cor.test(acn$narNPI\_s, acn$aff\_fru\_pic\_pos\_emg)*#-0.03824757*

print( r.test(198,0.01561339 ,-0.03824757,0.3265573 ), digits = 5)*# t value 0.64883 with probability < 0.51721*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_fru\_pic\_pos\_emg)*#0.04008859*

cor.test(acn$nar.admNRQ\_s, acn$aff\_fru\_pic\_pos\_emg)*#-0.002513676*

print ( r.test(198,0.04008859 , -0.002513676,0.3265573 ), digits = 5)*# t value 0.51307 with probability < 0.60848*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_fru\_pic\_pos\_emg)*#0.03045479*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_fru\_pic\_pos\_emg)*#0.006862076*

print ( r.test(198,0.03045479 , 0.006862076 ,0.3265573 ), digits = 5)*# t value 0.284 with probability < 0.77671*

*##images, negative frustration reactivity (no differences)####*

cor.test(acn$pow\_fru\_pic\_neg\_emg, acn$aff\_fru\_pic\_neg\_emg)*#correlation = 0.320688*

*#npi*

cor.test(acn$narNPI\_s, acn$pow\_fru\_pic\_neg\_emg)*#-0.09797778*

cor.test(acn$narNPI\_s, acn$aff\_fru\_pic\_neg\_emg)*#-0.02400047*

print ( r.test(198,-0.09797778 ,-0.02400047,0.320688 ), digits = 5)*# t value -0.89029 with probability < 0.37441*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$pow\_fru\_pic\_neg\_emg)*#-0.02540914*

cor.test(acn$nar.admNRQ\_s, acn$aff\_fru\_pic\_neg\_emg)*#0.02859876*

print ( r.test(198,-0.02540914, 0.02859876 ,0.320688 ), digits = 5)*# t value -0.64773 with probability < 0.51792*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$pow\_fru\_pic\_neg\_emg)*#-0.04577091*

cor.test(acn$nar.rivNRQ\_s, acn$aff\_fru\_pic\_neg\_emg)*#0.02518593*

print ( r.test(198,-0.04577091, 0.02518593 ,0.320688 ), digits = 5)*# t value -0.85172 with probability < 0.39541*

*###Narcissism-behavior (no differences)####*

cor.test(acn$powbehtrue, acn$affbehtrue)*#correlation = 0.08417644*

*#npi*

cor.test(acn$narNPI\_s, acn$powbehtrue)

cor.test(acn$narNPI\_s, acn$affbehtrue)

print ( r.test(123,0.1924432,0.01703747,0.08417644), digits = 5)*# t value 1.44367 with probability < 0.15144*

*#adm*

cor.test(acn$nar.admNRQ\_s, acn$powbehtrue)

cor.test(acn$nar.admNRQ\_s, acn$affbehtrue)

print(r.test(123,0.2016541 , 0.07933609 ,0.08417644), digits = 5)*#t value 1.00893 with probability < 0.31504*

*#riv*

cor.test(acn$nar.rivNRQ\_s, acn$powbehtrue)

cor.test(acn$nar.rivNRQ\_s, acn$affbehtrue)

print ( r.test(123,0.06406195,-0.14772,0.08417644), digits = 5)*# t value 1.73785 with probability < 0.084802*

*################################################Supplement Analyses######################*

*###Correlate EMG reactivity with lab task self-reports######*

*#power*

powreactcorrs <- Hmisc::rcorr(as.matrix(acn[,c(pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

pow\_sel)]))

powreactcorrs

apaTables::apa.cor.table(as.matrix(acn[,c(pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

pow\_sel)]),

filename = "Correlation Table power emg and task s-r.doc", table.number = 555,

show.conf.interval = **TRUE**, landscape = **TRUE**)

*#affiliation*

affreactcorrs <- Hmisc::rcorr(as.matrix(acn[,c(aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg,

aff\_sel)]))

affreactcorrs

apaTables::apa.cor.table(as.matrix(acn[,c(aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg,

aff\_sel)]),

filename = "Correlation Table affiliation emg and task s-r.doc", table.number = 444,

show.conf.interval = **TRUE**, landscape = **TRUE**)

*#median zygo -PA correlation*

*#-.19 -.03 + .08 + .10 + .13 + .15 + .15 +.16 + .17 + .18 +.19 +.29*

(15 + 15)/2

*#mean zygo sat - PA correlation:*

(.19 + .15 + .17 + .10 + .13 + .15 )/6*#.15*

(.18 + .29 +.16 + .08 + -.19 + - .03)/6*#.08*

*#median corr-PA correlation*

*#-.25 -.21 -.20 -.18 -.16 -.14 -.10 -.10 -.09 -.09 -.06 0*

(-14 - 10)/2

*#mean corr sat - PA correlation*

(-.16 -.18 -.25 -.10 -.14 -.09)/6*#-.15*

*#mean corr fru - PA correlation:*

(-.20 -.21 -.10 -.09 + 0 -.06)/6.*#-.11*

*###Linearity plots####*

**library**(PerformanceAnalytics)

*#pdf*

pdf(file="linearity.pdf", height = 50, width = 50)

chart.Correlation(acn[,c("narNPI\_s", "nar.admNRQ\_s" , "nar.rivNRQ\_s",

"pow.sfpXMS\_s", "pow.frnXMS\_s","aff.sfpXMS\_s", "aff.frnXMS\_s",

pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg,

"powbehtrue",

"affbehtrue")], pch=21)

dev.off()

*#png*

png(file="linearity.png", height = 700, width = 700, units='mm', res = 600)

chart.Correlation(acn[,c("narNPI\_s", "nar.admNRQ\_s" , "nar.rivNRQ\_s",

"pow.sfpXMS\_s", "pow.frnXMS\_s","aff.sfpXMS\_s", "aff.frnXMS\_s",

pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg,

"powbehtrue",

"affbehtrue")], pch=21)

dev.off()

*###Correlation table of all variables in the study######*

apaTables::apa.cor.table(as.matrix(acn[,c("narNPI\_s","nar.admNRQ\_s" , "nar.rivNRQ\_s",

"pow.sfpXMS\_s", "pow.frnXMS\_s",

"aff.sfpXMS\_s", "aff.frnXMS\_s",

pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

*#"pow\_sat\_gam\_emg",*

*#"pow\_sat\_sto\_emg",*

*#"pow\_sat\_pic\_emg",*

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

*#"pow\_fru\_gam\_emg",*

*#"pow\_fru\_sto\_emg",*

*#"pow\_fru\_pic\_emg",*

aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

*#"aff\_sat\_gam\_emg",*

*#"aff\_sat\_sto\_emg",*

*#"aff\_sat\_pic\_emg",*

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg,

*#"aff\_fru\_gam\_emg",*

*#"aff\_fru\_sto\_emg",*

*#"aff\_fru\_pic\_emg",*

pow\_sel,aff\_sel,

"powbehtrue","affbehtrue",

"powUMS\_s", "affUMS\_s",

"paf\_av\_d", "naf\_av\_d")]),

filename = "Correlation Table of all Variables in the Study.doc", table.number = 666,

show.conf.interval = **TRUE**, landscape = **TRUE**)

*###Correlate trait reactivity self-reports with EMG reactivity############*

apa.cor.table(as.matrix(acn[,c("pow.sfpXMS\_s","pow.frnXMS\_s", "aff.sfpXMS\_s", "aff.frnXMS\_s",

pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg)]),

landscape = **TRUE**)

*###Correlate narcissism with composite EMG reactivity (zygo - corr)##############*

narctotemgcorrs <- apa.cor.table(as.matrix(acn[,c(narc,tot\_emg)]),

filename = "Correlation Table narcissism total emg.doc", table.number = 777,

show.conf.interval = **TRUE**,

landscape = **TRUE**)

Hmisc::rcorr(as.matrix(acn[,c(narc, tot\_emg)]))

*###Correlate selected composite EMG reactivity indices with behaviors##########*

apa.cor.table(as.matrix(acn[,c("powbehtrue", "affbehtrue",

"pow\_fru\_gam\_emg", "aff\_sat\_gam\_emg", "aff\_fru\_gam\_emg", "aff\_sat\_pic\_emg")]),

filename = "Correlation Table selected total emg with behaviors.doc", table.number = 999,

show.conf.interval = **TRUE**,

landscape = **TRUE**)

*###Supplemental mediation rivalry###########*

*#partial correlations*

RVAideMemoire::pcor.test(acn$affbehtrue, acn$nar.rivNRQ\_s, acn$aff\_sat\_pic\_emg)*#pcor riv affbeh*

RVAideMemoire::pcor.test(acn$affbehtrue, acn$aff\_sat\_pic\_emg, acn$nar.rivNRQ\_s)*#pcor asp affbeh*

*#riv full mediation*

rivaffpic<- psych::mediate(affbehtrue ~ nar.rivNRQ\_s + (aff\_sat\_pic\_emg), n.iter = 5000,data=acn)

print(rivaffpic, short = F)

rivaffpic$boot

rivaffpic$indirect

summary(rivaffpic, digits=4)

print(rivaffpic, short = F, digits = 4)

mediate.diagram(rivaffpic,show.c=T, digits=3)

*###IER Analyses for Self-report scales####*

psych::describe(acn$surveymins1)

hist(acn[which(acn$surveymins1 < 100),]$surveymins1, breaks = 200)

*#pick out these less than 1/2.5 times*

50.60\*1/2.5

which(acn$surveymins1 < 20.24)

*#create IER 1 variable based on pragmatic grounds (tooquick = 1, normal or longer = 0)*

acn$ier <- ifelse(acn$surveymins1 < 20.24, 1, 0)

janitor::tabyl(acn$ier )

apaTables::apa.cor.table(as.matrix(acn[which(acn$ier ==0),][,c("narNPI\_s","nar.admNRQ\_s" , "nar.rivNRQ\_s",

"pow.sfpXMS\_s", "pow.frnXMS\_s",

"aff.sfpXMS\_s", "aff.frnXMS\_s",

pow\_sat\_pos\_emg,

pow\_sat\_neg\_emg,

pow\_fru\_pos\_emg,

pow\_fru\_neg\_emg,

aff\_sat\_pos\_emg,

aff\_sat\_neg\_emg,

aff\_fru\_pos\_emg,

aff\_fru\_neg\_emg,

"powbehtrue","affbehtrue")]),

filename = "Correlation Table of Main Study, removing quick respondents.doc", table.number = 9999,

show.conf.interval = **TRUE**, landscape = **TRUE**)

*###Spearman-brown formula for low reliability#########*

*#lowest reliability: a = .21 (power frustration images, zygomaticus)*

**library**(CTT)

CTT::spearman.brown(0.21, 0.70, "r")*#8.7777 items, rounded=9*