**Appendix 1: PCA Results of Current Study and American Study**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scales** | **Arabic Study** | | | **American Study** | | | **Tucker’s Congruence Coefficients (TCC)** | | | | | | | | |
| **Current Study** | | | **Haddy, Strack and**  **Choca (2005)** | | |
| F1IN | F2EX | F3PD | F1HLP | F2LHE | F3PT | **F1\*1** | **F1\*2** | **F1\*3** | **F2\*1** | **F2\*2** | **F2\*3** | **F3\*1** | **F3\*2** | **F3\*3** |
| I (Schizoid) | .607 | .436 | -.313 | .64 | .14 | .22 | .39 | .08 | .13 | .28 | .06 | .10 | -.20 | -.04 | -.07 |
| 2A (Avoidant) | .812 | .135 | -.221 | .74 | .14 | .25 | .60 | .11 | .20 | .10 | .02 | .03 | -.16 | -.03 | -.06 |
| 2B (Depressive) | .818 | .251 | -.210 | .74 | .28 | .29 | .61 | .23 | .24 | .19 | .07 | .07 | -.16 | -.06 | -.06 |
| 3 (Dependent) | .701 | .246 | -.052 | .64 | .15 | .24 | .45 | .11 | .17 | .16 | .04 | .06 | -.03 | -.01 | -.01 |
| 4 (Histrionic) | -.274 | -.066 | .749 | -.79 | -.15 | -.03 | .22 | .04 | .01 | .05 | .01 | .00 | -.59 | -.11 | -.02 |
| 5 (Narcissistic) | .066 | .060 | .799 | -.77 | -.01 | .34 | -.05 | .00 | .02 | -.05 | .00 | .02 | -.62 | -.01 | .27 |
| 6A (Antisocial) | .409 | .839 | .135 | .12 | .92 | .17 | .05 | .38 | .07 | .10 | .77 | .14 | .02 | .12 | .02 |
| 6B (Sadistic) | .690 | .453 | .183 | .17 | .64 | .49 | .12 | .44 | .34 | .08 | .29 | .22 | .03 | .12 | .09 |
| 7 (Compulsive) | .015 | -.751 | .305 | -.48 | -.64 | -.03 | -.01 | -.01 | .00 | .36 | .48 | .02 | -.15 | -.20 | -.01 |
| 8A (Negativistic) | .715 | .297 | .011 | .51 | .37 | .56 | .36 | .26 | .40 | .15 | .11 | .17 | .01 | .00 | .01 |
| 8B (Masochistic) | .722 | .475 | -.093 | .62 | .36 | .29 | .45 | .26 | .21 | .29 | .17 | .14 | -.06 | -.03 | -.03 |
| S (Schizotypal) | .815 | .258 | -.076 | .60 | .21 | .54 | .49 | .17 | .44 | .15 | .05 | .14 | -.05 | -.02 | -.04 |
| C (Borderline) | .765 | .478 | -.024 | .58 | .56 | .36 | .44 | .43 | .28 | .28 | .27 | .17 | -.01 | -.01 | -.01 |
| P (Paranoid) | .840 | -.068 | .189 | .34 | .15 | .76 | .29 | .13 | .64 | -.02 | -.01 | -.05 | .06 | .03 | .14 |
| A (Anxiety) | .840 | .202 | -.015 | .60 | .23 | .48 | .50 | .19 | .40 | .12 | .05 | .10 | -.01 | .00 | -.01 |
| H (Somatoform) | .759 | .219 | -.176 | .64 | .03 | .24 | .49 | .02 | .18 | .14 | .01 | .05 | -.11 | -.01 | -.04 |
| N (Bipolar ):Manic | .730 | .374 | .049 | .18 | .44 | .58 | .13 | .32 | .42 | .07 | .16 | .22 | .01 | .02 | .03 |
| D (Dysthymia) | .812 | .291 | -.190 | .79 | .24 | .26 | .64 | .19 | .21 | .23 | .07 | .08 | -.15 | -.05 | -.05 |
| B (Alcohol Dependence) | .439 | .773 | .034 | .18 | .81 | .11 | .08 | .36 | .05 | .14 | .63 | .09 | .01 | .03 | .00 |
| T (Drug Dependence) | .303 | .824 | .112 | .06 | .87 | .13 | .02 | .26 | .04 | .05 | .72 | .11 | .01 | .10 | .01 |
| R (Posttraumatic Stress) | .823 | .210 | -.085 | .66 | .27 | .42 | .54 | .22 | .35 | .14 | .06 | .09 | -.06 | -.02 | -.04 |
| SS (Thought Disorder) | .818 | .351 | -.125 | .65 | .31 | .46 | .53 | .25 | .38 | .23 | .11 | .16 | -.08 | -.04 | -.06 |
| CC (Major Depression) | .805 | .273 | -.175 | .75 | .13 | .22 | .60 | .10 | .18 | .20 | .04 | .06 | -.13 | -.02 | -.04 |
| PP (Delusional Disorder) | .754 | .174 | .261 | .13 | .11 | .80 | .10 | .08 | .60 | .02 | .02 | .14 | .03 | .03 | .21 |
| Sum |  |  |  |  |  |  | **8.04** | **4.65** | **5.95** | **3.46** | **4.18** | **2.32** | **-2.39** | **-.21** | **.25** |

∑X2/ Sum of the squared loadings for our study: F1=11.22, F2 = 4.29, and F3 =1.79

∑Y2/ Sum of the squared loadings for Haddy, Strack and Choca’ s study (2007): F1=7.76, F2 = 4.39, and F3 = 3.83

We applied congruence coefficient (Φ) formula (p.11), obtaining a series of outcome inserted in Table 6.















**Appendix 2. PCA Results of Current Study and American Study**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scales** | **Arabic Study** | | | **American Study** | | | **Tucker’s Congruence Coefficients (TCC)** | | | | | | | | |
| **Current Study** | | | **Craig and Bivens**  **(1998)** | | |
| F1IN | F2EX | F3PD | F1 GM | F2 PB | F3 AA | **F1\*1** | **F1\*2** | **F1\*3** | **F2\*1** | **F2\*2** | **F2\*3** | **F3\*1** | **F3\*2** | **F3\*3** |
| I (Schizoid) | .607 | .436 | -.313 | 0.61 | 0.29 | 0.07 | **.37** | **.18** | **.04** | **.27** | **.13** | **.03** | **-.19** | **-.09** | **-.02** |
| 2A (Avoidant) | .812 | .135 | -.221 | 0.67 | 0.42 | 0.12 | **.54** | **.34** | **.10** | **.09** | **.06** | **.02** | **-.15** | **-.09** | **-.03** |
| 2B (Depressive) | .818 | .251 | -.210 | 0.72 | 0.34 | 0.26 | **.59** | **.28** | **.21** | **.18** | **.09** | **.07** | **-.15** | **-.07** | **-.05** |
| 3 (Dependent) | .701 | .246 | -.052 | 0.55 | 0.41 | 0.20 | **.39** | **.29** | **.14** | **.14** | **.10** | **.05** | **-.03** | **-.02** | **-.01** |
| 4 (Histrionic) | -.274 | -.066 | .749 | -0.74 | -0.15 | -0.07 | **.20** | **.04** | **.02** | **.05** | **.01** | **.00** | **-.55** | **-.11** | **-.05** |
| 5 (Narcissistic) | .066 | .060 | .799 | -0 .77 | 0.32 | 0.03 | **-.05** | **.02** | **.00** | **-.05** | **.02** | **.00** | **-.62** | **.26** | **.02** |
| 6A (Antisocial) | .409 | .839 | .135 | 0.05 | 0.09 | 0.88 | **.02** | **.04** | **.36** | **.04** | **.08** | **.74** | **.01** | **.01** | **.12** |
| 6B (Sadistic) | .690 | .453 | .183 | 0.1 | 0.39 | 0.68 | **.07** | **.27** | **.47** | **.05** | **.18** | **.31** | **.02** | **.07** | **.12** |
| 7 (Compulsive) | .015 | -.751 | .305 | -0.5 | -0,17 | -0.53 | **-.01** | **.00** | **-.01** | **.38** | **.13** | **.40** | **-.15** | **-.05** | **-.16** |
| 8A (Negativistic) | .715 | .297 | .011 | 0.45 | 0.56 | 0.39 | **.32** | **.40** | **.28** | **.13** | **.17** | **.12** | **.00** | **.01** | **.00** |
| 8B (Masochistic) | .722 | .475 | -.093 | 0.55 | 0.31 | 0.37 | **.40** | **.22** | **.27** | **.26** | **.15** | **.18** | **-.05** | **-.03** | **-.03** |
| S (Schizotypal) | .815 | .258 | -.076 | 0. 51 | 0.65 | 0.17 | **.10** | **.53** | **.14** | **.03** | **.17** | **.04** | **-.01** | **-.05** | **-.01** |
| C (Borderline) | .765 | .478 | -.024 | 0.53 | 0.43 | 0.56 | **.41** | **.33** | **.43** | **.25** | **.21** | **.27** | **-.01** | **-.01** | **-.01** |
| P (Paranoid) | .840 | -.068 | .189 | 0.30 | 0.79 | 0.04 | **.25** | **.66** | **.03** | **-.02** | **-.05** | **.00** | **.06** | **.15** | **.01** |
| A (Anxiety) | .840 | .202 | -.015 | 0.45 | 0.55 | 0.32 | **.38** | **.46** | **.27** | **.09** | **.11** | **.06** | **-.01** | **-.01** | **.00** |
| H (Somatoform) | .759 | .219 | -.176 | 0.63 | 0.31 | 0.12 | **.48** | **.24** | **.09** | **.14** | **.07** | **.03** | **-.11** | **-.05** | **-.02** |
| N (Bipolar ):Manic | .730 | .374 | .049 | 0.11 | 0.61 | 0.43 | **.08** | **.45** | **.31** | **.04** | **.23** | **.16** | **.01** | **.03** | **.02** |
| D (Dysthymia) | .812 | .291 | -.190 | 0.73 | 0.29 | 0.33 | **.59** | **.24** | **.27** | **.21** | **.08** | **.10** | **-.14** | **-.06** | **-.06** |
| B (Alcohol Dependence) | .439 | .773 | .034 | 0.19 | 0.16 | 0.77 | **.08** | **.07** | **.34** | **.15** | **.12** | **.60** | **.01** | **.01** | **.03** |
| T (Drug Dependence) | .303 | .824 | .112 | 0.12 | -0.02 | 0.77 | **.04** | **-.01** | **.23** | **.10** | **-.02** | **.63** | **.01** | **.00** | **.09** |
| R (Posttraumatic Stress) | .823 | .210 | -.085 | 0.57 | 0.51 | 0.3 | **.47** | **.42** | **.25** | **.12** | **.11** | **.06** | **-.05** | **-.04** | **-.03** |
| SS (Thought Disorder) | .818 | .351 | -.125 | 0.57 | 0.56 | 0.28 | **.47** | **.46** | **.23** | **.20** | **.20** | **.10** | **-.07** | **-.07** | **-.04** |
| CC (Major Depression) | .805 | .273 | -.175 | 0.71 | 0.33 | 0.19 | **.57** | **.27** | **.15** | **.19** | **.09** | **.05** | **-.12** | **-.06** | **-.03** |
| PP (Delusional Disorder) | .754 | .174 | .261 | 0.14 | 0.83 | 0.07 | **.11** | **.63** | **.05** | **.02** | **.14** | **.01** | **.04** | **.22** | **.02** |
| Sum |  |  |  |  |  |  | **6.86** | **6.81** | **4.68** | **3.06** | **2.55** | **4.02** | **-2.27** | **-.07** | **-.14** |

∑X2/ Sum of the squared loadings for our study: F1=11.22, F2 = 4.29, and F3 =1.79

∑Y2/ Sum of the squared loadings for Craig and Bivens’s study (1998): F1 = 6.30, F2 = 4.75, and F3= 4.09

We applied congruence coefficient (Φ) formula, obtaining a series of outcome inserted in Table 7.

**Appendix 3. PCA Results of Current Study and Italian Study with Linearly Dependent Scales**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scales** | **Arabic Study** | | | **Italian Study** | | | | **Tucker’s Congruence Coefficients (TCC)** | | | | | | | | | | | |
| **Current Study** | | | (Pignolo et al., 2017) | | | |
| F1IN | F2EX | F3PD | **F1** | **F2** | **F3** | **F4** | **F1F1** | **F1F2** | **F1F3** | **F1F4** | **F2F1** | **F2F2** | **F2F3** | **F2F4** | **F3F1** | **F3F2** | **F3F3** | **F3F4** |
| I (Schizoid) | .607 | .436 | -.313 | .31 | .04 | .30 | -.49 | .19 | .02 | .18 | -.30 | .13 | .02 | .13 | -.21 | -.10 | -.01 | -.09 | .15 |
| 2A (Avoidant) | .812 | .135 | -.221 | .29 | .08 | .30 | -.83 | .24 | .07 | .24 | -.67 | .04 | .01 | .04 | -.11 | -.06 | -.02 | -.07 | .18 |
| 2B (Depressive) | .818 | .251 | -.210 | .84 | .02 | -.01 | -.12 | .69 | .01 | -.01 | -.10 | .21 | .00 | .00 | -.03 | -.18 | .00 | .00 | .03 |
| 3 (Dependent) | .701 | .246 | -.052 | .67 | .03 | .03 | -.19 | .47 | .02 | .02 | -.13 | .16 | .01 | .01 | -.05 | -.03 | .00 | .00 | .01 |
| 4 (Histrionic) | -.274 | -.066 | .749 | .01 | -.09 | -.11 | .89 | .00 | .02 | .03 | -.24 | .00 | .01 | .01 | -.06 | .01 | -.07 | -.08 | .67 |
| 5 (Narcissistic) | .066 | .060 | .799 | -.21 | .13 | .39 | .61 | -.01 | .01 | .03 | .04 | -.01 | .01 | .02 | .04 | -.17 | .11 | .31 | .49 |
| 6A (Antisocial) | .409 | .839 | .135 | .00 | .93 | .12 | .00 | .00 | .38 | .05 | .00 | .00 | .78 | .10 | .00 | .00 | .13 | .02 | .00 |
| 6B (Sadistic) | .690 | .453 | .183 | .22 | .47 | .31 | .11 | .15 | .32 | .21 | .08 | .10 | .21 | .14 | .05 | .04 | .09 | .06 | .02 |
| 7 (Compulsive) | .015 | -.751 | .305 | -.01 | -.63 | .20 | .02 | .00 | -.01 | .00 | .00 | .01 | .47 | -.15 | -.02 | .00 | -.19 | .06 | .01 |
| 8A (Negativistic) | .715 | .297 | .011 | .63 | .16 | .14 | .01 | .45 | .12 | .10 | .01 | .19 | .05 | .04 | .00 | .01 | .00 | .00 | .00 |
| 8B (Masochistic) | .722 | .475 | -.093 | .60 | .12 | .14 | -.25 | .43 | .09 | .10 | -.18 | .28 | .06 | .06 | -.12 | -.06 | -.01 | -.01 | .02 |
| S (Schizotypal) | .815 | .258 | -.076 | .48 | .04 | .47 | -.18 | .39 | .03 | .39 | -.15 | .12 | .01 | .12 | -.05 | -.04 | .00 | -.04 | .01 |
| C (Borderline) | .765 | .478 | -.024 | .80 | .28 | -.51 | .02 | .61 | .21 | -.39 | .02 | .38 | .13 | -.24 | .01 | -.02 | -.01 | .01 | .00 |
| P (Paranoid) | .840 | -.068 | .189 | .10 | -.01 | .86 | -.14 | .08 | -.01 | .72 | -.12 | -.01 | .00 | -.06 | .01 | .02 | .00 | .16 | -.03 |
| A (Anxiety) | .840 | .202 | -.015 | .83 | -.04 | .12 | .05 | .70 | -.03 | .10 | .04 | .17 | -.01 | .02 | .01 | -.01 | .00 | .00 | .00 |
| H (Somatoform) | .759 | .219 | -.176 | .86 | -.13 | .00 | .02 | .66 | -.10 | .00 | .02 | .19 | -.03 | .00 | .01 | -.15 | .02 | .00 | .00 |
| N (Bipolar ):Manic | .730 | .374 | .049 | .44 | .22 | .30 | .39 | .32 | .16 | .22 | .28 | .16 | .08 | .11 | .15 | .02 | .01 | .01 | .02 |
| D (Dysthymia) | .812 | .291 | -.190 | .95 | -.02 | -.14 | -.02 | .77 | -.02 | -.11 | -.02 | .28 | -.01 | -.04 | -.01 | -.18 | .00 | .03 | .00 |
| B (Alcohol Dependence) | .439 | .773 | .034 | .12 | .65 | .10 | -.06 | .05 | .28 | .05 | -.03 | .09 | .50 | .08 | -.05 | .00 | .02 | .00 | .00 |
| T (Drug Dependence) | .303 | .824 | .112 | -.12 | .74 | .08 | .01 | -.04 | .22 | .03 | .00 | -.10 | .61 | .07 | .00 | -.01 | .08 | .01 | .00 |
| R (Posttraumatic Stress) | .823 | .210 | -.085 | .80 | -.02 | .13 | .04 | .66 | -.02 | .10 | .03 | .17 | .00 | .03 | .01 | -.07 | .00 | -.01 | .00 |
| SS (Thought Disorder) | .818 | .351 | -.125 | .91 | .05 | -.01 | .02 | .75 | .04 | -.01 | .02 | .32 | .02 | .00 | .01 | -.11 | -.01 | .00 | .00 |
| CC (Major Depression) | .805 | .273 | -.175 | .91 | -.02 | -.07 | -.08 | .73 | -.02 | -.06 | -.06 | .25 | -.01 | -.02 | -.02 | -.16 | .00 | .01 | .01 |
| PP (Delusional Disorder) | .754 | .174 | .261 | .03 | .05 | .79 | .02 | .02 | .04 | .60 | .02 | .00 | .01 | .14 | .00 | .01 | .01 | .21 | .01 |
| Sum |  |  |  |  |  |  | | **8.29** | **1.86** | **2.59** | **-1.45** | **3.14** | **2.94** | **.61** | **-.42** | **-1.25** | **.16** | **.59** | **1.60** |

∑X2/ Sum of the squared loadings for our study: F1=11.22, F2 = 4.29, and F3 =1.79

∑Y2/ Sum of the squared loadings for Pignolo et al. (2017): F1 = 7.90, F2 = 2.68, F3= 2.55, and F4=2.44

We applied congruence coefficient (Φ) formula, obtaining a series of outcome inserted in Table 8.

**Appendix 4. PCA Results of Current Study and Italian Study on Linearly Independent Scales**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scales** | **Arabic Study** | | | **Italian Study** | | | | **Tucker’s Congruence Coefficients (TCC)** | | | | | | | | | | | |
| **Current Study** | | | (Pignolo et al., 2017) | | | |
| F1IN | F2EX | F3PD | **F1** | **F2** | **F3** | **F4** | **F1F1** | **F1F2** | **F1F3** | **F1F4** | **F2F1** | **F2F2** | **F2F3** | **F2F4** | **F3F1** | **F3F2** | **F3F3** | **F3F4** |
| I (Schizoid) | .607 | .436 | -.313 | .30 | .22 | -.14 | -.370 | .18 | .13 | -.08 | -.22 | .13 | .09 | -.06 | -.16 | -.09 | -.07 | .04 | .12 |
| 2A (Avoidant) | .812 | .135 | -.221 | .26 | .35 | -.07 | -.500 | .21 | .28 | -.06 | -.41 | .03 | .05 | -.01 | -.07 | -.06 | -.08 | .02 | .11 |
| 2B (Depressive) | .818 | .251 | -.210 | .62 | .15 | -.12 | -.200 | .51 | .12 | -.10 | -.16 | .16 | .04 | -.03 | -.05 | -.13 | -.03 | .03 | .04 |
| 3 (Dependent) | .701 | .246 | -.052 | .54 | .11 | -.80 | -.150 | .38 | .08 | -.56 | -.11 | .13 | .03 | -.20 | -.04 | -.03 | -.01 | .04 | .01 |
| 4 (Histrionic) | -.274 | -.066 | .749 | -.01 | .19 | -.10 | .722 | .00 | -.05 | .03 | -.20 | .00 | -.01 | .01 | -.05 | -.01 | .14 | -.07 | .54 |
| 5 (Narcissistic) | .066 | .060 | .799 | .01 | .62 | .07 | .166 | .00 | .04 | .00 | .01 | .00 | .04 | .00 | .01 | .01 | .49 | .05 | .13 |
| 6A (Antisocial) | .409 | .839 | .135 | .07 | .46 | .32 | .044 | .03 | .19 | .13 | .02 | .06 | .39 | .27 | .04 | .01 | .06 | .04 | .01 |
| 6B (Sadistic) | .690 | .453 | .183 | .01 | .54 | -.02 | .034 | .01 | .38 | -.01 | .02 | .00 | .25 | -.01 | .02 | .00 | .10 | .00 | .01 |
| 7 (Compulsive) | .015 | -.751 | .305 | .07 | .15 | -.44 | .023 | .00 | .00 | -.01 | .00 | -.05 | -.11 | .33 | -.02 | .02 | .05 | -.13 | .01 |
| 8A (Negativistic) | .715 | .297 | .011 | .44 | .35 | -.19 | -.060 | .32 | .25 | -.14 | -.04 | .13 | .10 | -.06 | -.02 | .00 | .00 | .00 | .00 |
| 8B (Masochistic) | .722 | .475 | -.093 | .38 | .34 | .02 | -.260 | .27 | .25 | .01 | -.19 | .18 | .16 | .01 | -.12 | -.04 | -.03 | .00 | .02 |
| S (Schizotypal) | .815 | .258 | -.076 | .31 | .58 | .00 | -.140 | .25 | .47 | .00 | -.11 | .08 | .15 | .00 | -.04 | -.02 | -.04 | .00 | .01 |
| C (Borderline) | .765 | .478 | -.024 | .68 | .15 | .08 | -.500 | .52 | .11 | .06 | -.38 | .33 | .07 | .04 | -.24 | -.02 | .00 | .00 | .01 |
| P (Paranoid) | .840 | -.068 | .189 | -.01 | .78 | -.09 | -.170 | -.01 | .65 | -.08 | -.14 | .00 | -.05 | .01 | .01 | .00 | .15 | -.02 | -.03 |
| A (Anxiety) | .840 | .202 | -.015 | .72 | .16 | .03 | -.060 | .60 | .13 | .03 | -.05 | .14 | .03 | .01 | -.01 | -.01 | .00 | .00 | .00 |
| H (Somatoform) | .759 | .219 | -.176 | .80 | -.08 | .02 | -.040 | .60 | -.06 | .02 | -.03 | .17 | -.02 | .00 | -.01 | -.14 | .01 | .00 | .01 |
| N (Bipolar ):Manic | .730 | .374 | .049 | .07 | .54 | -.24 | -.380 | .05 | .40 | -.18 | -.28 | .03 | .20 | -.09 | -.14 | .00 | .03 | -.01 | -.02 |
| D (Dysthymia) | .812 | .291 | -.190 | .89 | -.17 | -.06 | -.020 | .72 | -.14 | -.05 | -.02 | .26 | -.05 | -.02 | -.01 | -.17 | .03 | .01 | .00 |
| B (Alcohol Dependence) | .439 | .773 | .034 | .12 | .10 | .37 | -.020 | .05 | .04 | .16 | -.01 | .09 | .08 | .29 | -.02 | .00 | .00 | .01 | .00 |
| T (Drug Dependence) | .303 | .824 | .112 | -.01 | .12 | .57 | -.020 | .00 | .03 | .17 | -.01 | -.01 | .09 | .47 | -.02 | .00 | .01 | .06 | .00 |
| R (Posttraumatic Stress) | .823 | .210 | -.085 | .50 | .21 | .10 | -.060 | .41 | .17 | .08 | -.05 | .11 | .04 | .02 | -.01 | -.04 | -.02 | -.01 | .01 |
| SS (Thought Disorder) | .818 | .351 | -.125 | .73 | .10 | -.50 | -.030 | .60 | .08 | -.41 | -.02 | .26 | .04 | -.18 | -.01 | -.09 | -.01 | .06 | .00 |
| CC (Major Depression) | .805 | .273 | -.175 | .92 | -.20 | .08 | -.070 | .74 | -.16 | .06 | -.06 | .25 | -.05 | .02 | -.02 | -.16 | .03 | -.01 | .01 |
| PP (Delusional Disorder) | .754 | .174 | .261 | .08 | .48 | .21 | -.060 | .06 | .36 | .16 | -.05 | .01 | .08 | .04 | -.01 | .02 | .13 | .06 | -.02 |
| Sum |  |  |  |  |  |  | | **6.51** | **3.76** | **-.75** | **-2.48** | **2.50** | **1.63** | **.86** | **-.98** | **-.93** | **.95** | **.15** | **.98** |

∑X2/ Sum of the squared loadings for our study: F1=11.22, F2 = 4.29, and F3 =1.79

∑Y2/ Sum of the squared loadings for Pignolo et al. (2017): F1 = 5.33, F2 = 3.05, F3= 1.87, and F4=1.54

We applied congruence coefficient (Φ) formula, obtaining a series of outcome inserted in Table 9.

**Appendix 5. Structure Matrix Results of Current Study and Dutch Study**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scales** | **Arabic Study** | | | **Dutch Study** | | | | **Tucker’s Congruence Coefficients (TCC)** | | | | | | | | | | | |
| **Current Study** | | | (Rossi et al., 2007) | | | |
| F1IN | F2EX | F3PD | **F1** | **F2** | **F3** | **F4** | **F1\*F1** | **F1\*F2** | **F1\*F3** | **F1\*F4** | **F2\*F1** | **F2\*F2** | **F2\*F3** | **F2\*F4** | **F3\*F1** | **F3\*F2** | **F3\*F3** | **F3\*F4** |
| I (Schizoid) | .720 | .550 | -.285 | .65 | .24 | .41 | -.71 | .47 | .17 | .30 | -.51 | .36 | .13 | .23 | -.39 | -.19 | -.07 | -.12 | .20 |
| 2A (Avoidant) | .828 | .278 | -.194 | .78 | .15 | .43 | -.81 | .65 | .12 | .36 | -.67 | .22 | .04 | .12 | -.23 | -.15 | -.03 | -.08 | .16 |
| 2B (Depressive) | .865 | .391 | -.180 | .92 | .27 | .41 | -.61 | .80 | .23 | .35 | -.53 | .36 | .11 | .16 | -.24 | -.17 | -.05 | -.07 | .11 |
| 3 (Dependent) | .744 | .355 | -.026 | .81 | .20 | .34 | -.55 | .60 | .15 | .25 | -.41 | .29 | .07 | .12 | -.20 | -.02 | -.01 | -.01 | .01 |
| 4 (Histrionic) | -.319 | -.173 | .739 | -.54 | .00 | -.18 | .93 | .17 | .00 | .06 | -.30 | .09 | .00 | .03 | -.16 | -.40 | .00 | -.13 | .69 |
| 5 (Narcissistic) | .039 | -.001 | .802 | -.41 | .21 | .21 | .76 | -.02 | .01 | .01 | .03 | .00 | .00 | .00 | .00 | -.33 | .17 | .17 | .61 |
| 6A (Antisocial) | .618 | .877 | .166 | .21 | .99 | .35 | .10 | .13 | .61 | .22 | .06 | .18 | .87 | .31 | .09 | .03 | .16 | .06 | .02 |
| 6B (Sadistic) | .778 | .536 | .213 | .42 | .79 | .57 | .02 | .33 | .61 | .44 | .02 | .23 | .42 | .31 | .01 | .09 | .17 | .12 | .00 |
| 7 (Compulsive) | -.209 | -.763 | .288 | .30 | -.62 | -.07 | .09 | -.06 | .13 | .01 | -.02 | -.23 | .47 | .05 | -.07 | .09 | -.18 | -.02 | .03 |
| 8A (Negativistic) | .767 | .402 | .039 | .76 | .85 | .63 | -.31 | .58 | .65 | .48 | -.24 | .31 | .34 | .25 | -.12 | .03 | .03 | .02 | -.01 |
| 8B (Masochistic) | .829 | .587 | -.061 | .86 | .33 | .47 | -.61 | .71 | .27 | .39 | -.51 | .50 | .19 | .28 | -.36 | -.05 | -.02 | -.03 | .04 |
| S (Schizotypal) | .857 | .386 | -.045 | .82 | .32 | .67 | -.58 | .70 | .27 | .57 | -.50 | .32 | .12 | .26 | -.22 | -.04 | -.01 | -.03 | .03 |
| C (Borderline) | .868 | .590 | .010 | .87 | .56 | .45 | -.42 | .76 | .49 | .39 | -.37 | .51 | .33 | .27 | -.25 | .01 | .01 | .00 | .00 |
| P (Paranoid) | .777 | .046 | .213 | .55 | .31 | .93 | -.51 | .43 | .24 | .72 | -.40 | .03 | .01 | .04 | -.02 | .12 | .07 | .20 | -.11 |
| A (Anxiety) | .862 | .329 | .015 | .89 | .23 | .46 | .04 | .77 | .20 | .40 | .03 | .29 | .08 | .15 | .01 | .01 | .00 | .01 | .00 |
| H (Somatoform) | .798 | .348 | -.148 | .86 | .18 | .31 | -.51 | .69 | .14 | .25 | -.41 | .30 | .06 | .11 | -.18 | -.13 | -.03 | -.05 | .08 |
| N (Bipolar ):Manic | .801 | .476 | .079 | .56 | .56 | .59 | .04 | .45 | .45 | .47 | .03 | .27 | .27 | .28 | .02 | .04 | .04 | .05 | .00 |
| D (Dysthymia) | .870 | .428 | -.159 | .93 | .24 | .34 | -.61 | .81 | .21 | .30 | -.53 | .40 | .10 | .15 | -.26 | -.15 | -.04 | -.05 | .10 |
| B (Alcohol Dependence) | .634 | .825 | .065 | .33 | .67 | .35 | -.04 | .21 | .42 | .22 | -.03 | .27 | .55 | .29 | -.03 | .02 | .04 | .02 | .00 |
| T (Drug Dependence) | .513 | .848 | .140 | .01 | .69 | .20 | .20 | .01 | .35 | .10 | .10 | .01 | .59 | .17 | .17 | .00 | .10 | .03 | .03 |
| R (Posttraumatic Stress) | .852 | .341 | -.055 | .87 | .28 | .49 | -.46 | .74 | .24 | .42 | -.39 | .30 | .10 | .17 | -.16 | -.05 | -.02 | -.03 | .03 |
| SS (Thought Disorder) | .889 | .482 | -.092 | .93 | .33 | .47 | -.50 | .83 | .29 | .42 | -.44 | .45 | .16 | .23 | -.24 | -.09 | -.03 | -.04 | .05 |
| CC (Major Depression) | .857 | .409 | -.145 | .90 | .20 | .29 | -.54 | .77 | .17 | .25 | -.46 | .37 | .08 | .12 | -.22 | -.13 | -.03 | -.04 | .08 |
| PP (Delusional Disorder) | .759 | .265 | .287 | .45 | .34 | .85 | -.09 | .34 | .26 | .65 | -.07 | .12 | .09 | .23 | -.02 | .13 | .10 | .24 | -.03 |
| Sum |  |  |  |  |  |  | | **11.85** | **6.71** | **8.02** | **-6.49** | **5.93** | **5.19** | **4.30** | **-3.07** | **-1.31** | **.39** | **.22** | **2.09** |

∑X2/ Sum of the squared loadings for our study: F1=13.28, F2 = 5.96, and F3 =1.74

∑Y2/ Sum of the squared loadings for Rossi et al. (1998): F1 = 11.81, F2 = 5.29, F3= 5.50, and F4=5.98

We applied congruence coefficient (Φ) formula, obtaining a series of outcome inserted in Table 11.

**Appendix 6. Pattern Matrix Results of Current Study and Dutch Study**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scales** | **Arabic Study** | | | **Dutch Study** | | | | **Tucker’s Congruence Coefficients (TCC)** | | | | | | | | | | | |
| **Current Study** | | | (Rossi et al., 2007) | | | |
| F1IN | F2EX | F3PD | **F1** | **F2** | **F3** | **F4** | **F1F1** | **F1F2** | **F1F3** | **F1F4** | **F2F1** | **F2F2** | **F2F3** | **F2F4** | **F3F1** | **F3F2** | **F3F3** | **F3F4** |
| I (Schizoid) | .607 | .436 | -.313 | .18 | .140 | .23 | -.59 | .11 | .08 | .14 | -.35 | .05 | .04 | .06 | -.17 | -.05 | -.04 | -.06 | .15 |
| 2A (Avoidant) | .812 | .135 | -.221 | .32 | .010 | .23 | -.65 | .28 | .01 | .20 | -.56 | -.03 | .00 | -.02 | .07 | -.06 | .00 | -.04 | .12 |
| 2B (Depressive) | .818 | .251 | -.210 | .79 | .020 | .04 | -.18 | .68 | .02 | .03 | -.15 | .01 | .00 | .00 | .00 | -.13 | .00 | -.01 | .03 |
| 3 (Dependent) | .701 | .246 | -.052 | .72 | -.010 | .02 | -.15 | .52 | -.01 | .01 | -.11 | .03 | .00 | .00 | -.01 | -.01 | .00 | .00 | .00 |
| 4 (Histrionic) | -.274 | -.066 | .749 | .03 | -.010 | -.11 | .94 | -.01 | .00 | .03 | -.29 | .00 | .00 | .00 | .00 | .02 | -.01 | -.08 | .69 |
| 5 (Narcissistic) | .066 | .060 | .799 | -.23 | .130 | .32 | .65 | -.01 | .01 | .01 | .03 | -.01 | .00 | .01 | .02 | -.19 | .10 | .26 | .52 |
| 6A (Antisocial) | .409 | .839 | .135 | -.14 | 1.020 | .06 | -.03 | -.04 | .30 | .02 | -.01 | -.11 | .78 | .05 | -.02 | -.03 | .22 | .01 | -.01 |
| 6B (Sadistic) | .690 | .453 | .183 | .15 | .600 | .31 | .09 | .10 | .40 | .21 | .06 | .04 | .16 | .08 | .02 | .04 | .14 | .07 | .02 |
| 7 (Compulsive) | .015 | -.751 | .305 | -.17 | -.651 | .23 | .06 | -.02 | -.09 | .03 | .01 | .14 | .53 | -.19 | -.05 | -.04 | -.16 | .06 | .01 |
| 8A (Negativistic) | .715 | .297 | .011 | .46 | .300 | .32 | -.13 | .33 | .22 | .23 | -.09 | .04 | .03 | .03 | -.01 | .03 | .02 | .02 | -.01 |
| 8B (Masochistic) | .722 | .475 | -.093 | .61 | .110 | .15 | -.28 | .43 | .08 | .11 | -.20 | .17 | .03 | .04 | -.08 | -.02 | .00 | .00 | .01 |
| S (Schizotypal) | .815 | .258 | -.076 | .45 | .050 | .43 | -.30 | .38 | .04 | .36 | -.25 | .01 | .00 | .01 | -.01 | -.01 | .00 | -.01 | .01 |
| C (Borderline) | .765 | .478 | -.024 | .76 | .330 | .02 | -.03 | .57 | .25 | .02 | -.02 | .21 | .09 | .01 | -.01 | .03 | .01 | .00 | .00 |
| P (Paranoid) | .840 | -.068 | .189 | .05 | -.010 | .90 | -.20 | .05 | -.01 | .83 | -.18 | -.02 | .00 | -.30 | .07 | .01 | .00 | .19 | -.04 |
| A (Anxiety) | .840 | .202 | -.015 | .90 | -.090 | .11 | .06 | .79 | -.08 | .10 | .05 | -.04 | .00 | .00 | .00 | .02 | .00 | .00 | .00 |
| H (Somatoform) | .759 | .219 | -.176 | .90 | -.080 | -.05 | -.03 | .71 | -.06 | -.04 | -.02 | .00 | .00 | .00 | .00 | -.12 | .01 | .01 | .00 |
| N (Bipolar ):Manic | .730 | .374 | .049 | .54 | .280 | .28 | .35 | .39 | .20 | .20 | .26 | .09 | .05 | .05 | .06 | .06 | .03 | .03 | .04 |
| D (Dysthymia) | .812 | .291 | -.190 | .88 | -.010 | -.17 | -.15 | .74 | -.01 | -.14 | -.13 | .05 | .00 | -.01 | -.01 | -.12 | .00 | .02 | .02 |
| B (Alcohol Dependence) | .439 | .773 | .034 | .09 | .610 | .10 | -.03 | .03 | .21 | .03 | -.01 | .06 | .42 | .07 | -.02 | .01 | .07 | .01 | .00 |
| T (Drug Dependence) | .303 | .824 | .112 | -.09 | .730 | .03 | .06 | -.02 | .13 | .01 | .01 | -.07 | .57 | .02 | .05 | -.02 | .14 | .01 | .01 |
| R (Posttraumatic Stress) | .823 | .210 | -.085 | .81 | -.020 | .15 | .00 | .70 | -.02 | .13 | .00 | -.02 | .00 | .00 | .00 | -.03 | .00 | -.01 | .00 |
| SS (Thought Disorder) | .818 | .351 | -.125 | .88 | .040 | .07 | -.51 | .73 | .03 | .06 | -.43 | .11 | .00 | .01 | -.06 | -.06 | .00 | .00 | .04 |
| CC (Major Depression) | .805 | .273 | -.175 | .95 | -.050 | -.12 | -.03 | .79 | -.04 | -.10 | -.03 | .04 | .00 | -.01 | .00 | -.12 | .01 | .02 | .00 |
| PP (Delusional Disorder) | .754 | .174 | .261 | .12 | .030 | .79 | .04 | .09 | .02 | .62 | .03 | -.01 | .00 | -.04 | .00 | .04 | .01 | .23 | .01 |
| Sum |  |  |  |  |  |  | | **8.34** | **1.70** | **3.10** | **-2.40** | **.77** | **2.70** | **-.13** | **-.17** | **-.77** | **.55** | **.72** | **1.64** |

∑X2/ Sum of the squared loadings for our study: F1=11.22, F2 = 4.29, and F3 =1.79

∑Y2/ Sum of the squared loadings for Rossi et al. (1998): F1 = 7.82, F2 = 3.08, F3= 2.29, and F4=2.79

We applied congruence coefficient (Φ) formula, obtaining a series of outcome inserted in Table 12.

**Vita**



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He obtained his PhD in Educational Psychology and Counselling from International Islamic University Malaysia (IIUM). He has various experiences conducting workshops (over 200 workshops) in areas of Measurements and Advanced Statistics for postgraduate researchers and Staff of Malaysian Universities using SPSS, SAS, R Project, Stata, AMOS, EQS, LISREL, HLM, Mplus, and SmartPLS. He also did workshops in Systematic Review and Meta-Analysis, Rasch Analysis-Winsteps and EQS-Item Response Theory (IRT). He is a lecturer of qualitative and mixed methods in Malaysia. He is a reviewer for PLOS ONE, SAGE and Journal of Medical Imaging and Health Informatics. E-mail: [nalareqe@yahoo.com.](mailto:nalareqe@yahoo.com.com)



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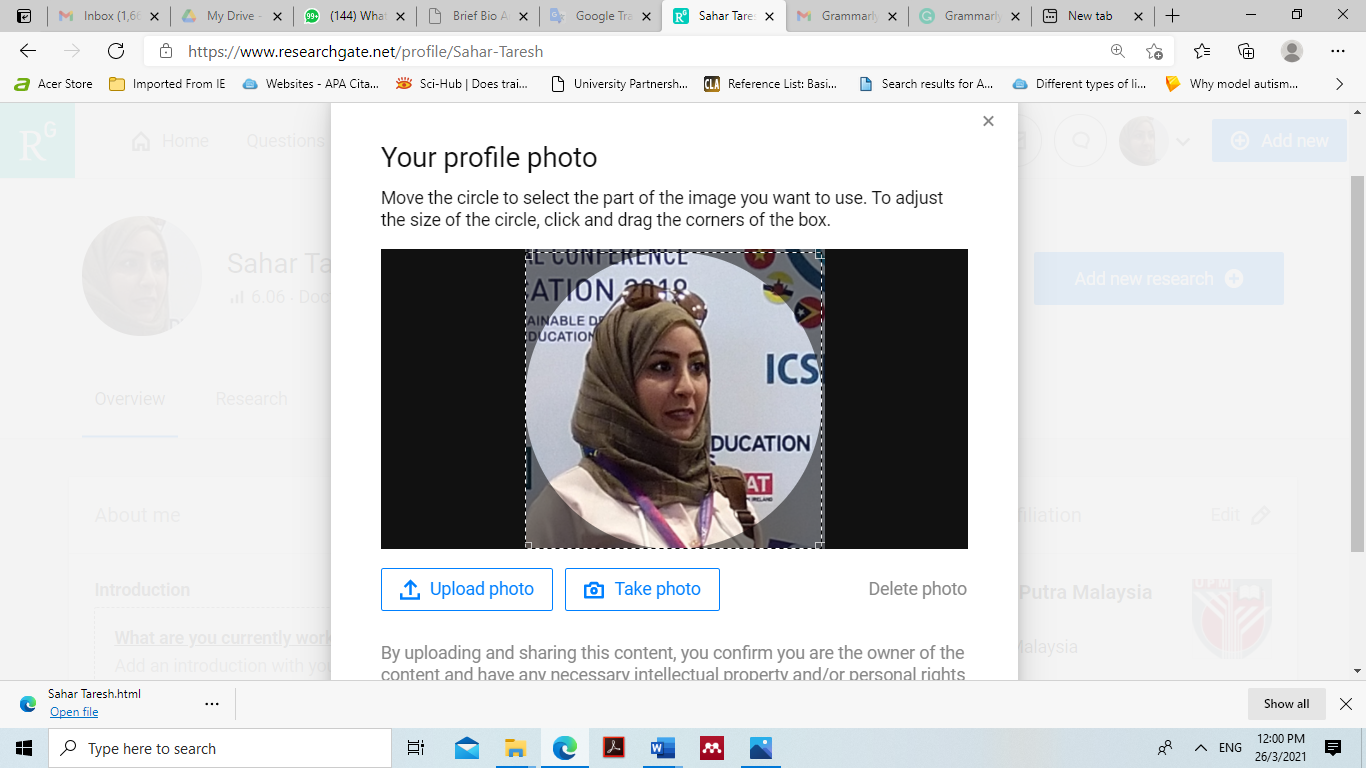


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