Validity evidence for the situational judgment test paradigm in emotional intelligence measurement

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Validity evidence for the situational judgment test paradigm in emotional intelligence measurement

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To date, various measurement approaches have been proposed to assess emotional intelligence (EI). Recently, two new EI tests have been developed based on the situational judgment test (SJT) paradigm: the Situational Test of Emotional Understanding (STEU) and the Situational Test of Emotion Management (STEM). Initial attempts have been made to examine the construct-related validity of these new tests; we extend these findings by placing the tests in a broad nomological network. To this end, 850 undergraduate students completed a personality inventory, a cognitive ability test, a self-report EI test, a performance-based EI measure, the STEU, and the STEM. The SJT-based EI tests were not strongly correlated with personality and fluid cognitive ability. Regarding their relation with existing EI measures, the tests did not capture the same construct as self-report EI measures, but corresponded rather to performance-based EI measures. Overall, these results lend support for the SJT paradigm for measuring EI as an ability.

Keywords: Emotional intelligence; Situational judgment tests; Emotional intelligence assessment.
In recent years, the concept of emotional intelligence (EI; Mayer & Salovey, 1997; Salovey & Mayer, 1990) has received considerable attention in both the academic and the practitioner literature (Joseph & Newman, 2010; Mayer, Roberts, & Barsade, 2008) and has been proposed as the newest alternative for predicting a wide range of constructs over and above cognitive ability and achievement in employment and educational contexts. However, despite the research interest and the potential potency of EI as an individual difference predictor, there are still many disagreements about the definition and measurement of EI.

This study focuses on the measurement of EI and concentrates on the use of situational judgment tests (SJTs) as a recent paradigm (MacCann & Roberts, 2008; Wilhelm, 2005). SJTs measure an individual’s judgment concerning situations by presenting examinees with scenarios and asking them to identify an appropriate response (McDaniel, Hartman, Whetzel, & Grubb, 2007; Motowidlo, Dunnette, & Carter, 1990; Weekley, Ployhart, & Holtz, 2006). In this study, we extend construct-related validity evidence of the SJT measurement approach by placing it in a network with other EI, cognitive ability, and personality measures.

ASSESSING EMOTIONAL INTELLIGENCE WITH SITUATIONAL JUDGMENT TESTS

The SJT approach is a popular measurement approach in personnel selection (Weekley & Ployhart, 2006). Christian, Edwards, and Bradley’s recent meta-analysis (2010) revealed that SJTs are most often used to assess leadership and interpersonal skills. As it is also possible to insert emotion-related scenarios into SJT items, Schulze, Wilhelm, and Kylonnen (2007) posited that “the prospects for SJTs are very promising for an improved assessment of EI” (p. 221). So far, initial steps have been taken to use the SJT format for measuring EI. For instance, some subtests of the MSCEIT (e.g., Emotion Management), the Levels of Emotional Awareness Scale (Lane, Quinlan, Schwartz, Walker, & Zeitlin, 1990), and the Test of Emotional Intelligence (Blickle et al., 2009) consist of SJT-like items. MacCann and Roberts (2008) have created two full-blown paper-and-pencil EI SJTs. First, the Situational Test of Emotional
Understanding (STEU) was designed to measure individuals’ ability to identify the emotions that most likely result from specific situations. The development of the STEU (item construction, response option generation, and scoring) was based on Roseman’s appraisal theory (2001). To create and objectively score the STEU, MacCann and Roberts (2008) developed situations for 14 emotions to represent specific combinations of the appraisal dimensions. Second, the Situational Test of Emotion Management (STEM) was developed to measure individuals’ ability to effectively manage specific emotional situations by using the correct strategies as identified by an expert group (i.e., researchers, psychologists, and counselors).

A key outstanding issue is how the STEU and the STEM relate to cognitive ability and personality. In light of their content-related description (emphasis on people’s understanding which emotions occur in STEU and applying emotion knowledge in STEM), their use of knowledge response instructions (e.g., “what is the best answer?” instead of “what are you most likely to do?” as in behavioral tendency response instructions), and a multiple choice response format, both tests were developed to measure EI as a set of mental abilities rather than preferred ways of behaving. Hence, they should relate to pre-existing intelligence measures and be relatively independent from personality trait inventories wherein people report on their behavioral tendencies (Mayer, Caruso, & Salovey, 1999).

To our knowledge, only two studies have examined the validity of these new EI SJTs (Austin, 2010; MacCann & Roberts, 2008). To examine whether the SJTs assess cognitive processing of affective information and can be considered part of the intelligence rather than personality domain, MacCann and Roberts (2008) scrutinized the correlations between the STEU and the STEM scores and personality. With the highest correlation at .24, their results demonstrated that the EI tests were distinct from personality. Next, they found moderate relationships for the STEU and the STEM with a vocabulary test of verbal intelligence ($r = .49$ and $r = .41$, respectively), indicating that the tests are related to some aspects of cognitive ability. However, vocabulary tests are generally considered to measure crystallized intelligence (Gc; acquired acculturated knowledge) rather than fluid intelligence (Gf; innate reasoning ability) (Cattell, 1987), and, thus, it remains unknown how the SJTs would correlate with Gf measures. Recently, Austin (2010) examined the associations of the STEU and the STEM with a letter series test as Gf measure and found no relations. Regarding the relations of the STEU and the STEM with Gc, Austin replicated the relation between the STEU and the vocabulary test used by MacCann and Roberts (2008) ($r = .32$) but not the relation between the STEM and vocabulary scores.

Another critical question concerns how the SJTs correlate with existing EI measures. It is important to rule out the possibility that EI SJTs capture people’s self-judged emotional abilities. As both EI SJTs are tests that assess whether respondents know important information, they should not correspond highly to self-report EI scales in which people evaluate their own abilities, because self-assessments of skills are often flawed (Dunning, Heath, & Suls, 2004). To demonstrate that the SJTs assess abilities, they should be correlated with performance-based EI tests. In a first attempt to answer this question, Austin (2010) examined the associations of the SJT EI tests with existing performance-based and self-report trait EI measures. Her results showed positive correlations between the STEU and the STEM and MSCEIT total scores ($r = .33$ and $r = .36$, respectively), positive correlations between the STEU and emotion perception tasks (average $r = .26$), and no significant relations for the STEU and the STEM with trait EI tests (average $r = .00$ and $r = .13$, respectively).

**PRESENT STUDY AND HYPOTHESES**

This study aims to extend the scarce construct-related validity evidence for the STEU and the STEM. If SJTs are a feasible complementary measurement paradigm for EI assessment, an important benefit will be that EI measurement is broadened. However, before researchers can compare self-report, other-report, performance-based, and SJT paradigms to expand our knowledge of the assessed construct EI (by disentangling the method and construct effects), more insight in the nomological network of the different measurement paradigms is needed. Therefore, this study aims to expand the information available on the STEU and the STEM by placing them in a broad nomological network, including a personality inventory, a broad Gf measure, a self-report EI test based on the well-established four-branch ability EI model, and a performance-based EI measure assessing the emotion perception ability. On the basis of the abovementioned theoretical notions behind the development of the EI SJTs and prior validation research (Austin,
2010; MacCann & Roberts, 2008) we posit the following.

- **H1:** There will be small correlations between the STEU and the STEM on one hand and the Big Five personality traits on the other.
- **H2:** There will be moderate correlations between the STEU and the STEM on one hand and Gf on the other.
- **H3:** The STEU and the STEM will correlate more strongly with a performance-based EI test than with a self-report EI measure.

**METHOD**

**Participants and procedure**

Eight hundred and fifty students (37% male, mean age = 20.2 years), who were in their first (25%), second (26%), third (27%), or fourth (21%) year of medical school, participated for partial completion of a course requirement. Prior to entering medical college, all students had passed the Flemish medical admission exams. In PC-equipped rooms, participants completed the computer-based test battery containing demographic, personality, self-report EI, performance-based EI, and the two SJT EI measures. About 10% of the sample (N = 86) did not complete the full test battery. Results of statistical comparisons between the available responses of the partially responding students and those of respondents who completed the whole survey (Wagner & Kemmerling, 2010) showed that nonresponse bias was unlikely to alter our results.

**Measures**

**Situational Test of Emotional Understanding (STEU)**

Participants completed the 42 multiple-choice items of the STEU (MacCann & Roberts, 2008): 14 items were context-reduced, 14 had a workplace content, and 14 had a personal-life context. The original STEU was translated into Dutch/Flemish by one of the authors and an English–Dutch translator. This translated version was checked by an emotion expert. No modifications needed to be made. Respondents had to identify which emotion would most likely result from each described situation. Correct answers were determined using Roseman’s (2001) appraisal theory. A sample item is (correct answer in parentheses): There is great weather on the day Jill is going on an outdoor picnic. Jill is most likely to feel? (a) pride [(b) joy] (c) relief (d) guilt (e) hope. Given the multidimensional nature of SJTs, internal consistency is not a good reliability measure for them and test–retest reliability has been suggested as a better measure (Whetzel & McDaniel, 2009). Test–retest reliability was assessed in a pilot study where the STEU was administered on a two-week interval among 32 psychology students (75% women) and was .72.

**Situational Test of Emotion Management (STEM)**

The 30-item version of the STEM (MacCann & Roberts, 2008) was administered in multiple-choice format and was scored according to expert mean ratings. The STEM was translated into Dutch/Flemish via the same procedure as the STEU. In each item, an emotional situation was presented and participants had to select the most effective reaction to manage both the emotions and problems faced in that situation. A sample item is (answer with highest score in parentheses): Alan helps Trudy, a peer he works with occasionally, with a difficult task. Trudy complains that Alan’s work isn’t very good, and Alan responds that Trudy should be grateful he is doing her a favor. They argue. What action would be the most effective for Alan? (a) Apologize to Trudy, (b) Stop helping Trudy and don’t help her again, (c) Try harder to help appropriately, [(d) Diffuse the argument by asking for advice]. The STEM was also administered in our abovementioned pilot study and test–retest reliability was .85.

**Self-rated emotional intelligence**

To measure EI with a self-report measure, we used a short form of the Self-Rated Emotional Intelligence Scale (SREIS) developed by Brackett, Rivers, Shiffman, Lerner, and Salovey (2006) because it measures all four ability EI branches. The SREIS contains four items for perceiving emotions (α = .67), three items for using emotions (α = .84), four items for understanding emotions (α = .84), and four items for managing emotions of others (α = .72). Participants used a five-point Likert scale, ranging from 1 (very inaccurate) to 5 (very accurate), to indicate the extent to which each statement described them.

**Emotion perception**

To measure EI via a performance-based test, we selected 48 morphed facial expressions of anger, joy, sadness, fear, disgust, and shame.
from the Montreal Set of Facial Displays of Emotion (MSFDE, Beaupré et al., 2000) because this emotion perception task assesses individuals’ ability to identify facial emotional expressions, which is a well-established ability within the EI domain. Each photograph was presented on a computer screen for 1 s, followed by a screen on which participants were asked to select which emotion was displayed. On the base of six repeated items we calculated the intrarater reliability of this scale’s score, which was .68.

**Personality**

Each of the Big Five Personality traits was assessed with 9 of the 10 Likert-type items (1 = very inaccurate and 5 = very accurate) of the International Personality Item Pool (Goldberg, 1999). Nine instead of ten items were measured because in our confirmatory factor analysis (CFA) analyses we used an item-parceling procedure (Little, Cunningham, Shahar, & Widaman, 2002) that randomly divided the nine items for each personality trait into three subscale composites. The item-parceling procedure was used because the number of personality factors is small relative to the number of observed variables (Drasgow & Kanfer, 1985). Internal consistency reliabilities ranged from .77 to .89.

**Cognitive ability**

We retrieved cognitive ability scores from archival records of the Flemish medical admission exam. The Gf test used in this exam consisted of 50 items (verbal, numeric, or figural) with five possible answers designed to tap general inductive and deductive reasoning. Internal consistency reliability was .72. As these scores were gathered during the admission exam, they were range-restricted. Range restriction refers to the phenomenon that when selecting people from a population (e.g., as part of an admission exam) the variability in their test scores is reduced as only the admitted students pursue education, thereby artificially reducing the magnitude of the correlation coefficients. Hence, we used the multivariate range restriction formulas of Ree, Carretta, Earles, and Albert (1994) to appropriately correct our correlation matrix, which then served as input for all analyses.

**ANALYSES AND RESULTS**

Table 1 presents the means, standard deviations, and range restriction corrected correlations among the study variables. According to Cohen’s (1988) criteria, correlations between .10 and .30, .30 and .50, and .50 and .70 can respectively be defined as small, moderate, and large. H1 posited small correlations between the STEU and the STEM and the personality traits. Supporting H1, the average correlations of $r = .04$ and $r = .07$ for the STEU and STEM respectively are indicative of independence from personality. Only openness and agreeableness showed somewhat stronger associations with the STEU and the STEM.

H2 posited the STEU and the STEM to show moderate correlations with Gf. However, the STEU and the STEM showed respectively a small and no significant correlation with Gf. The correlations between the EI tests and personality are also not significantly different from the correlations between the EI tests and Gf: $t(761) = -1.13$, $p = .260$ for the STEU and $t(761) = 0.34$, $p = .734$ for the STEM. These results are in line with MacCann and Roberts’ (2008) and Austin’s (2010) findings (see Appendix).

H3 stated that the STEU and the STEM would correlate more strongly with a performance-based EI test than with a self-report EI measure. Table 1 shows that the STEU and the STEM were more strongly and positively related to the performance-based EI measure than to the self-report EI measure, $t(761) = 3.58$, $p < .001$ for the STEU and $t(761) = 2.03$, $p < .05$ for the STEM.

To further test our hypotheses, we used CFA procedures via EQS (Bentler, 1995) through maximum-likelihood estimation. The criteria for determining whether the models give a good fit were for the $\chi^2$ test to be nonsignificant, the $\chi^2/df$ to be small, approaching unity (Bentler, 1995), the Bollen’s incremental fit index (IFI) and the comparative fit index (CFI) to have values $> .95$, and the root mean square error of approximation (RMSEA) to be $< .05$. Finally, we also used Akaike’s information criterion (AIC), with smaller values representing a better fit (Hu & Bentler, 1995).

For scrutinizing the relationship of the STEU and the STEM with personality and Gf, two competing measurement models were tested, hypothesizing the EI SJTs to load on the same factor as (1) Gf and (2) personality. To conceptualize personality in our models, we used one personality trait indicated by its three parcels and repeated all analyses with the other personality traits, because the model wherein all five personality trait scores were posited to load on one factor produced an unacceptable fit to the data. So, we tested five EI-as-intelligence models considering the EI SJTs to reflect mental performance rather
<table>
<thead>
<tr>
<th>Item</th>
<th>M</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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<th>10</th>
<th>11</th>
<th>12</th>
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<td>Fluid cognitive ability</td>
<td>6.05</td>
<td>1.14</td>
<td>(.72)</td>
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<td>Extraversion</td>
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<td>0.63</td>
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<td>-10*</td>
<td>(.88)</td>
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<tr>
<td>Agreeableness</td>
<td>4.11</td>
<td>0.39</td>
<td></td>
<td>-12**</td>
<td>.18**</td>
<td>(.78)</td>
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<tr>
<td>Emotional stability</td>
<td>3.22</td>
<td>0.70</td>
<td></td>
<td>.14**</td>
<td>.10*</td>
<td>.02</td>
<td>(.89)</td>
<td></td>
<td></td>
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<tr>
<td>Openness</td>
<td>3.56</td>
<td>0.47</td>
<td></td>
<td>.16**</td>
<td>.23**</td>
<td>.06</td>
<td>.11*</td>
<td>(.77)</td>
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<tr>
<td>Conscientiousness</td>
<td>3.46</td>
<td>0.64</td>
<td></td>
<td></td>
<td>.23**</td>
<td>-.04</td>
<td>.02</td>
<td>(.84)</td>
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<tr>
<td>Self-perceiving (SREIS)</td>
<td>14.82</td>
<td>1.91</td>
<td></td>
<td>-11*</td>
<td>.20**</td>
<td>.38**</td>
<td>.01</td>
<td>.15**</td>
<td>.20**</td>
<td>(.67)</td>
<td></td>
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<tr>
<td>Self-using (SREIS)</td>
<td>10.78</td>
<td>2.21</td>
<td></td>
<td>-11*</td>
<td>.14**</td>
<td>.37**</td>
<td>-.20**</td>
<td>-.10*</td>
<td>-.02</td>
<td>.20**</td>
<td>(.84)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Self-understanding (SREIS)</td>
<td>12.32</td>
<td>2.74</td>
<td></td>
<td></td>
<td>.29**</td>
<td>.21**</td>
<td>-.04</td>
<td>.47**</td>
<td>.10*</td>
<td>.30**</td>
<td>.15**</td>
<td>(.84)</td>
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<tr>
<td>Self-managing (SREIS)</td>
<td>14.84</td>
<td>1.86</td>
<td></td>
<td>-.07</td>
<td>.36**</td>
<td>.44**</td>
<td>.09*</td>
<td>.20**</td>
<td>.09*</td>
<td>.39**</td>
<td>.16**</td>
<td>.29**</td>
<td>(.72)</td>
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<td>STEU</td>
<td>27.67</td>
<td>3.40</td>
<td></td>
<td>.10*</td>
<td>.02</td>
<td>.06</td>
<td>.12**</td>
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<td>.00</td>
<td>.09*</td>
<td>.08*</td>
<td>.03</td>
<td>(.72)</td>
<td></td>
<td></td>
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<tr>
<td>STEM</td>
<td>141.17</td>
<td>4.62</td>
<td></td>
<td>.05</td>
<td>.00</td>
<td>.20**</td>
<td>.02</td>
<td>.05</td>
<td>.08*</td>
<td>.07</td>
<td>.10*</td>
<td>.08*</td>
<td>.06</td>
<td>.24**</td>
<td>(.85)</td>
</tr>
<tr>
<td>MSFDE</td>
<td>32.87</td>
<td>4.20</td>
<td></td>
<td>-.02</td>
<td>.02</td>
<td>.13**</td>
<td>-.04</td>
<td>.03</td>
<td>.03</td>
<td>.02</td>
<td>.09*</td>
<td>.04</td>
<td>.06</td>
<td>.22**</td>
<td>.18**</td>
</tr>
</tbody>
</table>

Reliabilities are reported in parentheses on the diagonal. Listwise deletion of missing data. *p < .05; **p < .001.
than preferred ways of behaving, and five EI-as-personality models to reflect preferred ways of behaving rather than mental performance. To support that the EI SJTs show small correlations with personality (H1) and moderate correlations with Gf (H2), the EI-as-Intelligence model should show a better fit to the data than the EI-as-personality model. Table 2 shows that the two models produced a similar fit to the data (factor loadings for the EI SJTs were below .23 for all models; for more information the first author can be contacted), refuting the possibility that the EI SJTs diverge more from personality than from Gf, which confirms our correlation results.

For scrutinizing the relationship of the STEU and the STEM with the self-report and the performance-based EI measures, two competing measurement models were tested. Table 3 shows that the model hypothesizing the EI SJTs to load on the same factor as the performance-based EI measure produced the best fit to the data, supporting H3. This model also produced the strongest factor loadings for the EI SJTs.

### DISCUSSION

The current study sought to examine whether the STEU and the STEM could be considered EI
measures assessing emotional abilities. The established nomological network showed that the EI SJTs do not capture the same construct as personality and self-report EI measures, but correspond rather to performance-based EI measures. These results lend support to the feasibility of the SJT paradigm as a valid complementary approach for assessing emotional abilities. For example, when researchers or practitioners do not want to use self-report EI measures or when performance-based EI measures are too complex to administer, EI SJTs can provide a valuable complement to measure EI branches in a diversity of settings and for comparing the results to extant EI ability measures (e.g., the MSCEIT).

However, a caveat is in order. The correlations of the EI SJTs with the performance-based EI measure were small (.22 and .18). One possible explanation might be the use of one specific performance-based EI measure. We chose an emotion perception test because this is one of the strongest EI ability branches. Additionally, linking the EI SJTs with an emotion perception test constitutes a more stringent test of H3 than linking the EI SJTs with, for example, an emotion management test (e.g., Branch 4 of the MSCEIT) because such tests also typically include situational items. So, our results on the relationship between SJT measures and ability measures of EI are probably conservative. Hence, future studies with other EI ability measures are needed to confirm our results. Another possible explanation, there might have been restriction of range in the ability EI (similar to cognitive ability) among medical students, leading to the smaller correlations with the performance-based EI measures.

A second important finding from our study is that the relations between the SJTs and Gf were weak, indicating that the SJTs do not reflect the ability to think logically and solve problems in new situations, independent of acquired knowledge. This new finding brings up the question of whether the SJTs primarily assess emotional knowledge (i.e., Ge; see MacCann & Roberts, 2008) or alternatively represent a latent factor distinct from Gf and Ge (see MacCann, 2010).

This study has the following limitations. First, some generalizability concerns should be acknowledged. Our sample consisted of Flemish medical students. As we used listwise deletion, a group of participants (10%) were also removed from the main analyses, potentially leading to nonresponse bias. Future research needs to examine the construct-related validity of the STEU and the STEM in other samples and settings. Second, all our results are based on two SJT EI measures that have a knowledge response instruction format, multiple-choice answers, and a specific scoring key. Research has found that these SJT features might impact on the results found (Lievens, Sackett, & Buyse, 2009; MacCann & Roberts, 2008; McDaniel et al., 2007).

We see the following fruitful avenues for future research. First, formats other than paper-and-pencil should be used to develop EI SJTs. When respondents are able to observe the verbal and nonverbal behavior of characters in the situation portrayed in a video-based SJT, the test becomes even more realistic, which might benefit its predictive potential. Also, video-based SJTs might be more appropriate to assess the fluid, experiential component of emotion (i.e., the ability to appropriately respond to emotional situations; Ortony, Revelle, & Zinbarg, 2007).

Second, future studies might try to disentangle methods and constructs (Arthur & Villado, 2008). One possibility consists of holding the construct (an EI branch) constant and varying the method (different EI measurement approaches). For example, the ability to understand and manage emotions might be measured via the SREIS (Brackett et al., 2006), the STEU and STEM respectively (MacCann & Roberts, 2008), and the MSCEIT (Mayer et al., 2002). Such research designs focus on convergent validity and enable one to answer such key questions as: How well do these different methods converge in assessing EI? How much variance is accounted for by method factors and by substantive construct factors respectively?

In conclusion, our results provide some support for the theoretical rationale behind the development of EI SJTs, and elucidate the value of the STEU and the STEM as complementary measures of individuals’ emotional abilities, thereby broadening the measurement paradigms available in EI research and practice.

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### APPENDIX

Comparison of nomological network established in Belgium (current study) to nomological networks established in Australia (MacCann & Roberts, 2008) and in the UK (Austin, 2010)

<table>
<thead>
<tr>
<th></th>
<th>Current study</th>
<th>Comparison data$^a$</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>STEU</td>
<td>STEM</td>
</tr>
<tr>
<td>Crystallized intelligence</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Fluid cognitive ability$^b$</td>
<td>.10*</td>
<td>.05</td>
</tr>
<tr>
<td>Extraversion</td>
<td>.02</td>
<td>.00</td>
</tr>
<tr>
<td>Agreeableness</td>
<td>.06</td>
<td>.20***</td>
</tr>
<tr>
<td>Emotional stability</td>
<td>.00</td>
<td>.02</td>
</tr>
<tr>
<td>Openess</td>
<td>.12***</td>
<td>.05</td>
</tr>
<tr>
<td>Conscientiousness</td>
<td>–.01</td>
<td>.08*</td>
</tr>
<tr>
<td>Self-report EI measure$^c$</td>
<td>.05</td>
<td>.08*</td>
</tr>
<tr>
<td>Emotion perception task$^d$</td>
<td>.22***</td>
<td>.18***</td>
</tr>
</tbody>
</table>


$^b$Comparison data from Austin (2010) with a letter series test as fluid cognitive ability measure.

$^c$Comparison data from Austin (2010) with a modified version of the Schutte EI scale and the TEIQue as self-report EI measures (TEIQue data in parentheses).

$^d$Comparison data from Austin (2010) with a face blends and a sad faces IT task (see Austin, 2010, for a detailed description) as emotion perception measures (sad IT data in parentheses).