Abstract

This study examines the dynamics of personality traits that tend to interfere with occupational decisions in young adults. Three multiple regression analyses were conducted to predict career decision self-efficacy (CDSE), e.g., planning and indecision with the Big 5 personality measures. We hypothesized that emotional intelligence (EI) and other personality traits affect employment conflicts (Study 1) and that CDSE mediates EI and planning difficulty (Study 2). Conscientiousness and openness significantly predicted CDSE, F(5, 128) = 15.64, p < .001, R^2 = .38, while neuroticism was statistically significant in predicting the career student planning scale (CSPS), F(5, 128) = 3.94, p < .01, R^2 = .13, and was significant for personality variables: a negative correlation was found between EI and career indecision (r = -.25, at p < .01). This demonstrates that the positive effect of CDSE mediates EI to career indecision, showing that conscientiousness predicted participants’ indecision (β = -.17, p < .05).

Keywords: Big 5 personality traits, career indecision, career student planning scale (CSPS), emotional intelligence (EI)
Conducted a meta-analysis and found that conscientiousness affects job performance. This shows its positive effects in 98% of samples, as a great influence across vocations. Gray et al. (2020) support how conscientiousness can predict conflict and indecision, with the correlation between conscientiousness and job planning being significant as well. The Big 5 personality traits have been used to predict professional performance, although how its five core dimensions—openness to experience, extraversion, conscientiousness, agreeableness, and neuroticism (OCEAN)—affect EI, CDSE, and indecision have not been fully examined. Research on this area will contribute to the literature on vocational behavior and personality in young adults.

Based on the above information, we hypothesize that EI and personality traits (e.g., conscientiousness) affect employment decisions, and that CDSE mediates EI and career indecision. We investigated the degree to which indecision was related to pre-existing measures (the Big 5 personality inventory, the career student planning scale (CSPS), and the career decision self-efficacy short-form (CDSE-SF)) during COVID-19. Whereas previous research found personality and SE differences between EI and job indecision (Gray et al., 2020); this study includes personality and CDSE as covariates, while EI, CDSE, and career planning are predictive of more general decisions. Our mediation model assesses how procrastination influences indecision during a global pandemic.

Methods

Participants and Procedures

A total of 147 students was recruited from small, liberal arts colleges in southeast Arkansas and southern California. The experimenters ask them to answer all questionnaires, but thirteen participants failed to answer 5 or 6 questions, so were excluded (N = 134; 104 females and 30 males). All study procedures that involved human participants were performed in accordance with APA’s ethical standards and the 1975 Helsinki Declaration. Each participant voluntarily participated in the study, and informed consent was obtained so that debriefing could take place after its completion. The distribution of self-identified race was 65% White, 27% Black/African-American, 1% Native American, and the rest indicated ‘other.’ All participants were full-time students at four-year universities (M = 22.28, SD = 6.05) and recruited via email, with digital surveys administered after the pandemic lockdown. Students received extra credit for participation.

Measures

Career Student Planning Scale (CSPS)

Gray et al. (2021) created a new 8-item, unidimensional scale as a reliable measure of career planning. The CSPS uses a 5-point Likert-type scale. All negatively worded items were scored in reverse, showing the coefficient alpha to be .86 (Table 3).

Big 5 Personality Inventory (BFI)

We used John and Srivastava’s (1999) BFI, based on Goldberg’s model of personality. The 45-item measure is comprised of OCEAN: (a) openness, (b) conscientiousness, (c) extraversion, (d) agreeableness, and (e) neuroticism. BFI uses a 5 5-point Likert-type scale ranging from 1 (strongly disagree) to 5 (strongly agree). The coefficient alphas of this study were (a) .60, (b) .77, (c) .72, and (e) .76.

Career Decision Self-Efficacy Short-form (CDSE-SF)

Taylor and Betz (1983) CDSE-SF measure was used in this study. The 25-items form includes career SE and self-reported frequency on a 5-point Likert-type scale ranging from 1 (no confidence) to 5 (complete confidence). Our calculated Cronbach’s alpha was .95.

Career Decision Difficulty Questionnaire (CDDQ)

The CDDQ measure was used to access participant indecision. Created in 1996 by Gati, Krausz, and Osipow, it consists of the following subscales: (a) lack of readiness (CD-DQ-R: lack of motivation, general indecisiveness, and dysfunctional beliefs), (b) lack of information (CD-DQ-I: the stage of one’s decision making, occupation, and the need for additional information), and (c) difficulties related to inconsistent information (CD-DQ-D: unreliable information, and internal and external conflicts). This 34-item measure encourages participants to rate the extent to which each statement illustrates their professional decisions on a 9-point Likert-type scale, ranging from 1 (does not describe me) to 9 (describes me well). Fabio, Palazzeschi, Levin, and Gati (2015) found high internal consistency: (a) .89 for lack of readiness, (b) .90 for lack of information, and (c) .92 for inconsistent information. Cronbach’s alpha for the scale in this study was 0.94.
Wong and Law’s Emotional Intelligence Scale (WLEIS)

Wong and Law’s EI scale (2002) assessed participant suitability for workplace situations. Participants were scored on 16 items (every four items was one factor, so a 4-factor structure emerged) on a 7-Likert-type scale from 1 (strongly disagree) to 7 (strongly agree). Wong and Law found internal consistency for four factors from .83 to .90. Our Cronbach’s alpha for WLEIS, including those four factors, was .91.

Data Analysis Plan

Two study analyses (Studies 1 and 2) were done. For Study 1 we conducted three multiple regressions to observe the effects of the Big 5 personality traits on each dependent variable – CDSE, CSPS, and CDDQ. For CDDQ, the Big 5 effect on certain traits was examined at subscale levels. We conducted three additional multiple regressions on the CDDQ subscales to examine the impact of Big 5 personality traits in terms of college student indecision. Study 2 examined the mediating effect of CDSE on EI and CDDQ. This model was able to test whether CDSE actually mediates EI while predicting CDDQ.

Results

The sample size was naturally obtained; we tried to recruit as many participants as possible for a larger sample, but due to the pandemic, a total of 134 was obtained. We used power analysis based on our sample: by using G*POWER for simple regression, the power was .8. A sample of 134 is not a small sample, although a larger sample would have been more desirable.

Study 1 Multiple Regression Analyses

Big 5 traits were independent variables in the six-multiple regression analyses on employment traits (Table 1 and 2). When CDSE was predicted by personality measure, conscientiousness (t = 4.83, p < .001) and openness (t = 4.196, p < .001) were significant, F (5, 128) = 15.64, p < .001, R² = .38. Neuroticism (t = -2.45, p = .016) was a strong predictor of personality, F (5, 128) = 7.96, p < .001, R² = .24. In multiple regressions of three subscales of CDDQ in predicting CDSE-L, neuroticism was the significant personality trait (t=3.8, p < .001), F (5, 128) = 4.72, p < .001, R² = .16. When predicting CDDQ-L, neuroticism (t=2.3, p=.022) was the most significant personality trait, F (5, 128) = 2.63, p = .027, R² = .16.

Study 2

Mediation Model

Results of the mediation model for EI, CDSE, and CDDQ show that the positive affect of CDSE mediated between EI and CDDQ (Figure 1). The effect of EI on CDDQ was mediated via CDSE. The regression coefficient for EI and CDDQ as

<table>
<thead>
<tr>
<th>Variables</th>
<th>Study 1.1 (CDSE)</th>
<th>Study 1.2 (CSPS)</th>
<th>Study 1.3 (CDDQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>SE B</td>
<td>B</td>
</tr>
<tr>
<td>EXTRA</td>
<td>0.255</td>
<td>0.234</td>
<td>0.086</td>
</tr>
<tr>
<td>AGREE</td>
<td>0.309</td>
<td>0.266</td>
<td>0.089</td>
</tr>
<tr>
<td>CONSC</td>
<td>1.557</td>
<td>0.323</td>
<td>0.386</td>
</tr>
<tr>
<td>NEURO</td>
<td>-0.068</td>
<td>0.232</td>
<td>-0.022</td>
</tr>
<tr>
<td>OPENN</td>
<td>1.117</td>
<td>0.266</td>
<td>0.301</td>
</tr>
</tbody>
</table>
Table 2

Summary of Regression Analysis for Big 5 Personality Predicting Sub-scales of Career Indecision (N = 134)

<table>
<thead>
<tr>
<th>Variables</th>
<th>Study 1.3.1 (CDDQ_R)</th>
<th>Study 1.3.2 (CDDQ_L)</th>
<th>Study 1.3.3 (CDDQ_D)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>SE B</td>
<td>β</td>
</tr>
<tr>
<td>EXTRA</td>
<td>0.010</td>
<td>0.017</td>
<td>0.049</td>
</tr>
<tr>
<td>AGREE</td>
<td>0.009</td>
<td>0.020</td>
<td>0.040</td>
</tr>
<tr>
<td>CONSC</td>
<td>0.013</td>
<td>0.024</td>
<td>0.050</td>
</tr>
<tr>
<td>NEURO</td>
<td>0.104</td>
<td>0.017</td>
<td>0.513</td>
</tr>
<tr>
<td>OPENN</td>
<td>0.025</td>
<td>0.020</td>
<td>0.103</td>
</tr>
</tbody>
</table>

Table 3

Career Student Planning Scale (CSPS) Questionnaires and item-total correlation after reverse coding (N=134)

<table>
<thead>
<tr>
<th>Item</th>
<th>Questionnaires</th>
<th>Reverse coding</th>
<th>Item-total correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I have chosen a major.</td>
<td></td>
<td>0.58</td>
</tr>
<tr>
<td>2</td>
<td>It was/is difficult to choose a major.</td>
<td>Y</td>
<td>0.46</td>
</tr>
<tr>
<td>3</td>
<td>I plan to stick with my major.</td>
<td></td>
<td>0.61</td>
</tr>
<tr>
<td>4</td>
<td>I am satisfied with my major.</td>
<td></td>
<td>0.60</td>
</tr>
<tr>
<td>5</td>
<td>I know what I want to do in life.</td>
<td></td>
<td>0.80</td>
</tr>
<tr>
<td>6</td>
<td>I know what I am going to do after college.</td>
<td></td>
<td>0.73</td>
</tr>
<tr>
<td>7</td>
<td>I have chosen a career to pursue after college.</td>
<td></td>
<td>0.76</td>
</tr>
<tr>
<td>8</td>
<td>It was/is difficult to choose a career path.</td>
<td>Y</td>
<td>0.34</td>
</tr>
</tbody>
</table>

well as for CDSE and CDDQ were significant. The indirect effect was (.70)*(-.03) = -0.02, so we tested significance by using bootstrapping procedures. Unstandardized indirect effects were computed for 1,000 bootstrapped samples, and a 90% CI was computed with indirect effects at the 2.5th and 97.5th percentiles. The bootstrapped unstandardized effect was - .02, as the 95% CI ranged from - .03 to .01. The indirect effect was statistically significant at p < .01.

Discussion

This study explored how Big 5 personality traits, EI, CSPS, and CDSE-SF, are related to career indecision (CDDQ). Findings suggest that EI is negatively correlated to career indecision, which substantiates the work of Gray et al. (2020) as well as previous research (Gottlieb & Gotzsche-Astrup, 2020; Wilmot, Wanberg, Kammeyer-Mueller, & Ones, 2019). Personality traits like conscientiousness and neuroticism are related to CDSE, CSPS, and CDDQ. We examined variables that influenced occupational indecision – as most students experience mental health concerns when facing challenges. The first step involves related research, so this could result in an evidence-based study. Two specific goals of our research were: a) to examine the relationship between EI and CDDQ, and b) the mediating role of CDSE. The COVID-19 pandemic lockdown creates momentum among college students, who are nearly in
the job market. This study extends personality theories by including the COVID-19 pandemic, along with career decisions, and the mediating role of CDSE for EI and CDDQ.

Findings suggest that EI is positively related to future work behavior and that CDSE mediates the relationship between them, which previous studies also support (Chung, 2002; Coetzee & Harry, 2014; Fabio, Palazzechi, Levin, & Gati, 2015; Falco & Summers, 2019; Gati, Krausz, & Osipow, 1996; Gray, Lee, & Kim, 2020; Jiang 2016; Law, Wang, & Song, 2004). These variables have a strong impact on employment decisions. We compared how EI, individual SE, and personality traits were contributing factors in assessing work behavior and found that CDSE mediates between EI and career indecision.

Limitations and Future Research Directions

This study relied on self-reported measures, so direct causality of variables may not have been fully addressed, while shared method variance could have affected it. Our sample size was relatively small, with the use of convenience sampling, so the findings are not highly generalizable. Self-report questionnaires may not exclude the possibility that participant responses could be affected by social desirability factors. Longitudinal or mixed method designs, comprised of larger and more diverse samples, would increase generalizability. However, the design allowed us to account for confounding variables. As stated, the research was conducted to examine personality traits, EI, and other variables related to professional conflict and indecision.

We aimed to determine the factors with the greatest influence on career indecision – as most college students are conflicted by low SE and individual personality traits. The first step involves related research so that this results in an evidence-based study: this will likely extend personality theories by examining how closely related variables might be integrated into a mediation model (Han, Kim, & Kim, 2017).

This work is narrowly focused on potential contributing factors that could affect young adults. Despite its limitations, we attempted to offer a greater understanding of the direct and indirect relationship between EI and CDDQ, when CDSE was the mediator. Our findings may inform academic counselors and educational professionals, who comprehend the predictors of career decisions in college students, and who could use this information for strategies that reinforce behaviors associated with positive personality traits. As such, we will expand the research with existing studies – which could be used for future research by including other experiments, measures, and participants.

References


Campagna, C. G., & Curtis, G. J. (2007). So worried I don’t know what to be: Anxiety is associated with increased career indecision.
Career Self-Efficacy as a Mediator

and reduced career certainty. *Australian Journal of Guidance and Counselling, 17*(1), 91-96. https://doi.org/10.1375/ajgc.17.1.91


Career Self-Efficacy as a Mediator


