Factors influencing adult savings and investment: Findings from a nationally representative sample

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A R T I C L E  I N F O

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Trait conscientiousness
Financial assessment
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A B S T R A C T

This study explored a longitudinal data set of over 5766 adults examining factors that influence adult savings and investment. Data were collected at birth, in childhood (at age 11) and adulthood (at ages 33 and 50 yrs) to examine the effects of family social status, childhood intelligence, adult personality traits, education and occupation, and personal financial assessment on adult savings and investment. Results from structural equation modelling showed that parental social status, educational qualifications and occupational prestige, trait conscientiousness, personal financial assessment and gender all had significant and direct effects on adult savings and investment, accounting for 26\% of the total variance. The strongest predictor of adult savings and investment was their personal subjective financial assessment followed by educational qualifications and current occupational prestige. Limitations and implications are considered.

1. Introduction

Over the past thirty years there has been a closer relationship between psychology and economics (\textit{Lewis, Webley, \\& Furnham, 1995}) with both disciplines taking an interest in each other's major variables. This study is concerned with several types of variables including individual difference (intelligence and personality), demographic (sex and education), sociological (social class and occupation) and financial status on individual savings (cash and investments).

There are a number of studies scattered across many disciplinary journals that have considered psychological determinants of economic beliefs and behaviours (\textit{Bucciol \\& Zarri, 2017; Conlin et al., 2015; Durand, Newby, \& Sanghani, 2008; Furnham, 1985; Oehler, Wendt, Wedlich, \& Horn, 2018; Pak \\& Mahmood, 2015; Rzeszutek, 2015; Shankar \& Kallarakal, 2018; Zagorsky, 2007}). Some studies show that ability variables are systematically and directly related to saving and investment decisions as well as indirectly related to such things as education and occupation. For instance, in a study using evidence from a large British follow-up study, \textit{Ashby, Schoon, and Webley (2011)} found that that socialization experiences during adolescence, as well as own social status and income, shape the savers that we become. Very few studies have looked at individual correlates of saving behaviour despite its obvious importance to both the individual and the society (\textit{De Bortoli, da Costa, Goular, \& Campara, 2019; Furnham, 1985; Pinjisaikool, 2017; Schäfer, 2016}). In this study we will examine, as the dependent variables, how participants rated their general financial situation, as well as how much money they had saved and in investments and of what type. We believe this gives a reasonably complete picture of their financial situation.

Various psychological studies have established the links between family background, early cognitive development and later educational and occupational outcomes (\textit{Deary et al., 2005; Schoon, 2010; Spinath, Spinath, Harlaar, \& Plomin, 2006; Tong, Baghurst, Vimpani, \& McMichael, 2007}) and financial well-being (\textit{Furnham \\& Cheng, 2017a, 2017b}). Data show that intelligent people from higher social background are more likely to have higher educational qualifications and attain higher occupational levels and in turn have higher earnings. Hence one would expect a direct and an indirect link from childhood intelligence to adult earnings.

Although many studies in the area are longitudinal, and there has been an established causal directions of these variables: education predicts occupation, intelligence predicts educational outcome, intelligence is associated with career success, and occupational prestige is associated with earnings (\textit{Breen, 2010; Deary et al., 2005; Furnham, 2015; Geyer, Hemstrom, Peter, \& Vagero, 2006; Haveman \\& Smeeding, 2006; Heath, 1981; von Stumm, Fenton-O’Creery, \& Furnham, 2013}). Few studies have looked at the effects of family background, childhood ability test scores, later educational and occupational outcomes on...
adult earning ability in relation to personality factors. Moreover, as Geyer et al. (2006) noted education, income and occupational status cannot be used interchangeably in social epidemiology; many studies in the area used occupation and income as indicators of a latent variable. This study will overcome the above-mentioned by using these measures separately as done by Furnham and Cheng (2017a, 2017b).

Whilst there are a few early studies on personality traits and earning (Harrell, 1969) it was Bowles, Gintis, and Osborne (2001) who concluded that non-cognitive traits are important in determining earnings that stimulated this field most. Early studies showed cultural differences in the relationship between personality and remuneration (Boudreau, Boswell, & Judge, 2001). However, the studies have been inconsistent on which personality traits are measured (Groves, 2005; Palifka, 2009; Rode, Arthaud-Day, Mooney, Near, & Baldwin, 2008; Spurk & Abele, 2011). Linz and Semykina (2009) concluded “the effect of personality is similar in magnitude to the effect of education, and may in fact exceed the effect of education if the effect of two personality traits is combined” (p. 71).

Psychological studies of work success (in general) using the established “Big Five” traits has concentrated on personality factors (Furnham, 2018; Gelissen & de Graaf, 2006; Judge, 2009), physical characteristics (Judge & Cable, 2004; Judge, Hurst, & Simon, 2009), demographic variables like age, class and gender (Judge & Livingstone, 2008) as well as intelligence (Schmidt & Hunter, 2004). Nearly all the studies in this area show that two personality traits, namely Neuroticism (poor Emotional Adjustment) and Conscientiousness, are by far the most important in explaining the variance of success at work measured by promotion, ratings, level and also pay (Sutin, Costa, Miech, & Eaton, 2009). Whilst some studies have looked at the reciprocal effect of work experience on personality development (Roberts, Caspi, & Moffitt, 2003), most have looked at personality predictors of job choice and success. Others have suggested that whilst personality may be a direct predictor of salary it is mediated by motivation and work status (Spurk & Abele, 2011).

The psychological studies examining ability and personality predictors of work success and adult earnings have typically three limitations: many are cross-sectional rather than longitudinal so that causality cannot be inferred; the samples tend to be small and non-representative of the total population; they tend to be very restricted in the variables measured in that they may measure personality but not also intelligence which are inter-correlated (Furnham, 2008). This study hopes to overcome these shortcomings.

There have been numerous studies on the possible causes of the established gender difference in pay which include gender differences in education, hours worked, occupational prestige, employment sector and years in the labour market (Haberfeld, 1992; Judge & Cable, 2012; Judge & Livingstone, 2008). Semykina and Linz (2007) found gender differences in personality traits which explained 8% of the gender wage gap. They also found women's earnings are strongly affected by personality whilst the effect of personality on men's earnings was small and often not significant. Hence it is to be expected that women will have less money to save and invest than men, though it is not clear whether this should affect the personal assessment of their financial situation.

In this study we also examined social class and occupational correlates on saving and investing. It is clear that occupation is a way of determining social class and income/financial status which obviously relates to how much money a person has to save and invest.

2. Hypotheses

This study explores the effects of family social background, childhood intelligence, education and occupation, and personality traits on adult savings and investment, using path model and drawing on data collected from a large representative population sample born in 1958 in the UK. There appear to be few relevant studies to this except that of Asebedo et al. (2019) who found the concept of Financial Self-Efficacy the best predictor of adult saving. She also examined the role of personality traits and found they indirectly explained saving behaviour. Conscientiousness and Extraversion indirectly supported saving behaviour; whereas Openness to experience and Neuroticism indirectly undermined saving behaviour. There appear to be no other studies in this area which used the same type of predictors variables to measure investment. However there have been two other studies with financial outcome variables which used SEM in a consistent model (Furnham & Cheng, 2017a, 2017b). This study followed those models.

On the basis of the literature reviewed above, it is hypothesised that H1 Parental social class would be significantly and positively associated with adult savings and investment; H2 Education and occupation would be significantly and positively associated with adult saving and investment; H3 Traits Emotional stability, Conscientiousness and Openness would be significantly associated with adult savings and investment; H4 Personal Financial assessment (subjective ratings of economic well-being) would be significantly associated with adult savings and investment; H5 Women would have less savings and investment than men; H6 Parental social class, education and occupation, personality traits, financial assessment and gender would be independent predictors of the outcome variable.

3. Method

3.1. Participants

The National Child Development Study 1958 is a large-scale longitudinal study of the 17,415 individuals who were born in Great Britain in a week in March 1958 (Ferri, Bynder, & Wadsworth, 2003). They were a representative sample of the country at the time. 14,134 children at age 11 completed tests of cognitive ability (response = 87%). Testing took place in school, and written, informed consent was given by the parents. At 33 years, 11,141 participants provided information on their educational qualifications obtained (response = 72%). At age 50 years, 8210 participants provided information on their current occupational levels (response = 67%); 9790 participants completed a questionnaire on personality (response = 79%); 9762 participants provided information on their self-assessed financial situation (response = 79%), 9729 participants provided information on their savings and investment (response = 57%). The analytic sample comprises 5766 cohort members (50% females) for whom complete data were collected at birth, at ages 11 years, and the outcome measure at age 50 years. Bias due to attrition of the sample during childhood has been shown to be minimal (Davie, Butler, & Goldstein, 1972; Fogelman, 1976).

3.2. Measures

1. Family Social Background at Birth Family social background includes information on parental social class and parental education. Parental social class at birth was measured by the Registrar General's measure of social class (RGSC). RGSC is defined according to occupational status (Marsh, 1986). Where the father was absent, the social class (RGSC) of the mother's father was used. RGSC was coded on a 6-point scale: I professional; II managerial/technical; III skilled non-manual; IV skilled manual; IV semi-skilled; and V unskilled occupations (Leete & Fox, 1977). Parental education is measured by the age parents had left their full-time education.

2. Childhood Intelligence Childhood intelligence was assessed at age 11 in school using a general ability test (Douglas, 1964) consisting of 40 verbal and 40 non-verbal items. For the verbal items, children were presented with an example set of four words that were linked either logically, semantically, or phonologically. For the non-verbal tasks, shapes or symbols were used. The children were then given another set of three words or shapes or symbols with a blank. Participants were required to select the missing item from a list of five
alternatives. Scores from these two set of tests correlate strongly with scores on an IQ-type test used for secondary school selection ($r = 0.93$, Douglas, 1964) suggesting a high degree of validity.

3. **Educational Qualifications** At age 33, participants were asked about their highest academic or vocational qualifications. Responses are coded to the six-point scale of National Vocational Qualifications levels (NVQ) ranging from ‘none’ to ‘higher degree level’: 0 = no qualifications; 1 = some qualifications (Certificate of Secondary Education Grades 2 to 5); 2 = O level (equivalent to qualifications taken at the end of compulsory schooling); 3 = A level (equivalent to university entrance level qualifications); 4 = postsecondary degree/diploma and equivalent; and 5 = higher post-graduate degrees and equivalent.

4. **Personality Traits** Personality traits were assessed at age 50, by the 50 questions from the International Personality Item Pool (IPIP) (Goldberg, 1999). Responses (5-point, from “Strongly Agree” to “Strongly Disagree”) are summed to provide scores on the so called ‘Big-S’ personality traits: Extraversion, Emotionality/neuroticism, Conscientiousness, Agreeableness and Openness. Scores on each trait range between 5 and 50 with higher scores equating to higher levels of each trait, of which 10 items for each trait. A preliminary test showed that the associations between traits Extraversion and Agreeableness were not significantly associated with adult savings and investment, thus these two traits were excluded from the following analyses. Preliminary analysis which included these two traits in the SEM model demonstrated that they were not moderating variables. Alpha was 0.88 for emotionality/neuroticism, 0.77 for conscientiousness, and 0.79 for intellect/openness.

5. **Occupational Prestige** Data on current or last occupation held by cohort members at age 50 are coded according to the RGSC described above, using a 6-point classification.

6. **Financial Assessment** was assessed at age 50. Participants were asked to assess their personal financial situation on a 5-point measure (1 = Finding it very difficult, 2 = Finding it quite difficult, 3 = Just about getting by, 4 = Doing all right, 5 = Living comfortably).

7. **Adult Savings and Investment** At age 50, participants provided information on the amount of savings and investment they had, which were logged in the following analyses. In addition, participants also mentioned the specific types of their savings and investment, of which bank or building society = 70.2%, ISA = 51.8%, premium bonds = 35.0%, stocks and/or other shares = 32.9%.

3.3. **Statistical analyses**

First, we look at the associations between the measures used in the study using IBM SPSS Statistics 24. Second, we will conduct structural equation modelling to examine the paths linking parental social class, childhood intelligence, personality traits, education and occupation, and finance assessment and adult savings and investment using IBM SPSS Amos 24.

4. **Results**

4.1. **Correlational analysis**

Table 1 shows the correlations between the observed variables in the study, together with the means and standard deviations of the measures by gender. Results show that all variables examined were significantly associated with the adult savings and investment in the expected direction ($p < .001$). The strongest association was between personal financial assessment and adult savings and investment, followed by education and occupation. This is a well-established finding. However, what was particularly interesting was the correlation between IQ measured as age 11 and savings measured 39 years later. In effect all the hypotheses were supported. It should be pointed out however that whilst all correlations with the outcome variables were significant, many were small, in the region of $r = 0.10$. This means the effect sizes were small.

4.2. **Structural Equation Modelling**

Structural Equation Modelling (SEM) was used to assess the links among gender, family social status, childhood intelligence, education and occupation, personality traits, financial assessment, and savings and investment in adulthood. Paths in the models are designed to correspond with the time sequence in which the variables occurred, as well as following the rationale that more “stable” variables predict more “changeable” variables. The SEM model testing was carried out using the structural equation modelling program AMOS 18 (Arbuckle, 2016) with maximum likelihood estimation that can be based on incomplete data, known as the full information maximum likelihood (FIML) approach (Arbuckle, 1996). As before we examined a number of different models to examine the best fit.

Fig. 1 shows the standardised path coefficients of the structural equation model. The solid lines indicate that the corresponding path coefficients are statistically significant and dashed lines indicate that the path coefficients are non-significant. Indicators of latent variables and error variance for each observable and latent variables are included in the model (not shown in the diagram).

4.3. **Model fit**

The $\chi^2$ statistic is overly sensitive when sample sizes are large or the observed variables are non-normally distributed. The root mean square error of approximation (RMSEA) gives a measure of the discrepancy in fit per degrees of freedom ($< 0.05$ indicates a good fit). The final index of choices are the Comparative Fit Index (CFI), and the Tucker Lewis Index (or Non-normed Fit Index) where values above 0.95 indicate a very good fit, and values $> 90$ are interpreted as good (Bentler, 1990). Table 2 shows unstandardized estimate, standard error, and standardized estimate of each indicator of the latent variables and the predictors of the outcome variable for the complete SEM model. For the latent variable of family social status, the loading ranged from 0.62 to 0.77. For childhood intelligence, they were 0.91 for verbal test and 0.86 for non-verbal test, indicating the coherence of the underlying construct for each latent variable.

The model showed a good fit. Chi-square was 574.6 ($df = 40$, $p < .001$), the CFI was 0.964, the TLI was 0.917, and the RMSEA was 0.047. The model explains 26% of the total variance. Fig. 1 shows that parental social status, educational qualifications and occupational prestige, trait conscientiousness, and financial assessment as well as gender all had direct and significant effects on adult savings and investment. Cohort members whose parents had higher social status, who had higher educational qualifications and were in more professional positions and had better financial situation tended to have more savings and investment than those who scored lower on these measures. Women tended to have less savings and investment than men. Thus H6) parental social class, education and occupation, personality traits, financial assessment and gender might be independent predictors of the outcome variable was partially supported. For among the three personality traits included in the model, only conscientiousness had the significant effect on the outcome variable.

5. **Discussion**

The present study explored the associations between a set of psychological and socio-demographic factors and adult savings and investment. The findings of the current study confirmed, and extended previous psychological and sociological work in this area (Ashby et al., 2011; Furnham & Cheng, 2013). We were particularly interested in the personality trait data albeit that it was cross-sectional data whereas the sociological variables and IQ were longitudinal. The correlation results...
Table 1
Pearson correlations among gender, parental social status measures, childhood intelligence, personality traits, educational qualifications and occupational prestige, financial situation, and adult saving behaviour.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Mean</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logged amount of savings at age 50</td>
<td>3.78</td>
<td>(1.29)</td>
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<td>-</td>
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<tr>
<td>Gender</td>
<td>0.50</td>
<td>-0.078***</td>
<td>-</td>
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<tr>
<td>Parental social class at birth</td>
<td>3.33</td>
<td>(1.24)</td>
<td>-0.019</td>
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<td>-</td>
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<tr>
<td>Paternal education at birth</td>
<td>15.54</td>
<td>(2.00)</td>
<td>-0.472***</td>
<td>-</td>
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<tr>
<td>Maternal education at birth</td>
<td>15.53</td>
<td>(1.59)</td>
<td>-0.508***</td>
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<tr>
<td>Verbal score age 11</td>
<td>24.63</td>
<td>(8.50)</td>
<td>-0.243***</td>
<td>-0.227***</td>
<td>-0.203***</td>
<td>-</td>
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<tr>
<td>Non-verbal score age 11</td>
<td>23.00</td>
<td>(6.86)</td>
<td>-0.251***</td>
<td>-0.229***</td>
<td>-0.193***</td>
<td>-0.774***</td>
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<tr>
<td>Educational qualifications age 33</td>
<td>2.69</td>
<td>(1.45)</td>
<td>-0.326***</td>
<td>-0.313***</td>
<td>-0.278***</td>
<td>0.461***</td>
<td>0.450***</td>
<td>-</td>
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<tr>
<td>Current occupational levels age 50</td>
<td>4.11</td>
<td>(1.20)</td>
<td>-0.213***</td>
<td>-0.182***</td>
<td>-0.164***</td>
<td>0.316***</td>
<td>0.298***</td>
<td>0.456***</td>
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<tr>
<td>Financial assessment age 50</td>
<td>4.12</td>
<td>(0.94)</td>
<td>-0.063***</td>
<td>-0.045***</td>
<td>-0.043</td>
<td>0.106***</td>
<td>0.096</td>
<td>-0.167***</td>
<td>-0.183***</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Emotional stability age 50</td>
<td>28.93</td>
<td>(7.07)</td>
<td>-0.026</td>
<td>0.025</td>
<td>0.016</td>
<td>0.064***</td>
<td>0.106***</td>
<td>0.087***</td>
<td>0.075***</td>
<td>0.144***</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Conscientiousness age 50</td>
<td>33.99</td>
<td>(5.27)</td>
<td>-0.015</td>
<td>0.000</td>
<td>0.118***</td>
<td>0.050**</td>
<td>0.031</td>
<td>0.068***</td>
<td>0.089***</td>
<td>0.159***</td>
<td>0.181***</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Openness age 50</td>
<td>32.55</td>
<td>(5.17)</td>
<td>-0.012</td>
<td>-0.140***</td>
<td>-0.159***</td>
<td>-0.140***</td>
<td>-0.279***</td>
<td>-0.238***</td>
<td>-0.321***</td>
<td>-0.245***</td>
<td>-0.076***</td>
<td>-0.096***</td>
<td>-0.226***</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Note: *p < .05; **p < .01; ***p < .001. Variables were scored such that a higher score indicated being female, higher amount of savings, a more professional occupation for the parent and higher age parents left school, higher verbal and non-verbal ability test scores in childhood, highest educational qualification and a more professional occupation; better financial situation, higher scores on emotional stability, conscientiousness and openness. Bold coefficients indicate the associations between the outcome variable and other variables examined in the study.

Fig. 1. Path model predicting adult savings and investment.
showed that three personality traits (Emotional Stability, Conscientiousness and Openness) are linked with savings and investment in adulthood. These traits have been implicated in many studies of personality and monetary behaviour (Furnham, 2015). However, the SEM analysis showed that it was only Conscientiousness that was directly related to the outcome variable.

The highest correlation was with Conscientiousness which the direct effect on adult savings and investment in the SEM model shown in Fig. 1, though the effect size is modest. Conscientiousness is associated with being hard-working, reliable and planful. It is also associated with postponement of gratification which is what essentially saving, in any form, is about. Indeed, it seems that of personality traits Conscientiousness is the strongest correlated of health, wealth and happiness (Furnham, 2018).

It is not surprising that the strongest predictor of saving and investment was the simple subjective rating of financial assessment, followed by educational qualifications and occupational prestige, which were inter-related. It is also no surprise that education related to occupational prestige which is a strong marker of income.

Of particular interest to differential psychologists was the SEM results which showed that childhood intelligence had a strong influence on educational qualifications (path coefficient = 0.40), which in turn, significantly predicted occupational prestige (path coefficient = 0.33) and financial assessment (path coefficient = 0.09), and consequently influenced adult savings and investment. This supports the extensive work of Deary on the role of intelligence in so many important life outcomes (Deary et al., 2005).

Further, gender was a significant positive predictor of Conscientiousness and a negative predictor of Emotional Stability. Previous research in the area consistently shows that women have higher scores on Neuroticism and depression compared with men, which can significantly affect many aspects of their work performance. On the other hand, women tend to be more prudent and cautious but lower scores on Neuroticism and depression compared with men, which can significantly affect many aspects of their work performance.

As with all research using cohort studies, this work is constrained by the availability of the data. In the current study personality traits were only measured once, at the same time as the savings and investment at age 50 years. Ideally, personality should be assessed earlier, at late teenage, and again in later years, so that the effects of personality on the outcome variable could be better explored. Although a quarter of the total variance of savings and investment is accounted for, there are still three quarters of variance unexplained.

### References


### Table 2

Unstandardized estimate, standard error and standardised estimate of the latent and observable variables of SEM that predict adult savings and investment.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Unstandardized estimate</th>
<th>Standard error</th>
<th>Standardised estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parental social status</td>
<td>1.000</td>
<td>0.623</td>
<td></td>
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<tr>
<td>Father’s education</td>
<td>2.001</td>
<td>0.770</td>
<td></td>
</tr>
<tr>
<td>Mother’s education</td>
<td>1.309</td>
<td>0.634</td>
<td></td>
</tr>
<tr>
<td>Childhood cognitive ability tests</td>
<td>1.000</td>
<td>0.907</td>
<td></td>
</tr>
<tr>
<td>Verbal scores</td>
<td>0.761</td>
<td>0.855</td>
<td></td>
</tr>
<tr>
<td>Non-verbal scores</td>
<td>0.200</td>
<td>0.210</td>
<td></td>
</tr>
<tr>
<td>Predicting adult savings and investment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gender</td>
<td>−0.166</td>
<td>0.032</td>
<td>−0.064</td>
</tr>
<tr>
<td>Parental social status (latent)</td>
<td>0.082</td>
<td>0.049</td>
<td></td>
</tr>
<tr>
<td>Childhood cognitive abilities (latent)</td>
<td>0.005</td>
<td>0.029</td>
<td></td>
</tr>
<tr>
<td>Educational qualifications</td>
<td>0.118</td>
<td>0.133</td>
<td></td>
</tr>
<tr>
<td>Occupational levels</td>
<td>0.092</td>
<td>0.086</td>
<td></td>
</tr>
<tr>
<td>Financial assessment</td>
<td>0.570</td>
<td>0.417</td>
<td></td>
</tr>
<tr>
<td>Emotional stability</td>
<td>0.001</td>
<td>−0.002</td>
<td></td>
</tr>
<tr>
<td>Conscientiousness</td>
<td>0.101</td>
<td>0.046</td>
<td></td>
</tr>
<tr>
<td>Openness</td>
<td>−0.012</td>
<td>−0.027</td>
<td></td>
</tr>
</tbody>
</table>

⁎⁎⁎ p < .001.