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Personality Traits and Types in Relation to Career Success: An Empirical Comparison Using the Big Five

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The purpose of this study is twofold: First, it discusses and derives personality types based on Big Five traits. Second, it compares their associations with career success. After deriving both a statistical and content-wise meaningful two-type solution referring to a resilient and a distressed profile, the explanatory value for both objective (i.e., promotions and income) and subjective career success (i.e., self-reported career success and career satisfaction) is tested for both traits and types. For objective career success, only traits appeared to be relevant predictors. For subjective career success, types appeared to have explanatory value as well, next to traits. This study concludes with a short discussion of its implications and possible further research avenues.

INTRODUCTION

Personality significantly determines individual behaviour in the workplace (Penney, David, & Witt, 2011), and has been reported to be an important predictor of work and career success in both cross-sectional and longitudinal studies (see, e.g., Seibert & Kraimer, 2001; Wille, De Fruyt, & Feys, 2013). Two different operationalisations of the personality construct have been used in previous empirical research. First, the so-called *trait* approach typically focused on personality traits that were assumed to have predictive power, and—at the same time—convincingly attested to the importance of

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the “Five Factor Model” (i.e. the “Big Five”). Second, in the so-called *typological* approach, personality *clusters* or *types* were derived empirically, typically on the basis of multiple personality traits, for example, the Big Five (see, for instance, Asendorpf, Borkenau, Ostendorf, & Van Aken, 2001).

An individual’s personality could then be statistically compared to prototype personalities, and—if required—assigned to the (proto)type showing the highest resemblance (see, e.g., Altmann, Sierau, & Roth, 2013). This so-called “person-centred” approach better reflects the integrated character of relevant human behaviour in a systematic way, in comparison with traits (see also Alessandri et al., 2014). Recently, Ferguson and Hull (2018) stressed the importance of taking the, in essence, hierarchical nature of the personality construct into account and underlined the relevance of Latent Profile Analysis (LPA) to derive personality profiles.

Previously, personality types have been explored for their explanatory value in studying social attitudes (Roth & Von Collani, 2007), psychological functioning (Merz & Roesch, 2011), mental health, well-being, and life events (Leikas & Salmela-Aro, 2014). Moreover, recent empirical work has reported its association with work-related stress and satisfaction (Van der Wal, Bucx, Hendriks, Scheffer, & Prins, 2016). As regards career success more specifically, to the best of our knowledge, only De Fruyt (2002) has explored the extent to which Big Five personality types revealed differences in career outcomes for former students, one year after graduation. Results of his study showed that personality types were (differentially) associated with job satisfaction, job stress and skill development.

To deepen our knowledge on the value of personality types for career outcomes, our study’s goal is to extract meaningful Big Five (personality) types, and subsequently, to analyse to what extent these resulting types can succeed in explaining objective and subjective career success, when benchmarked with the extent to which the original Big Five traits explain objective and subjective career success.

The structure of this research note will therefore be as follows: First, on the basis of our sample data (individuals in diverse roles and functions in the habitat and construction markets) we identify a (statistically and content-wise) meaningful Big Five personality type structure. Second, relying on the derived personality type structure, we explore its value in explaining career success as benchmarked with the original set of Big Five traits.

PART 1: DERIVING BIG FIVE PERSONALITY TYPES

Big Five Types Based on Big Five Traits

Since the introduction of the Big Five (McCrae & Costa, 1985), regression-type analyses (Arthur, Woehr, & Graziano, 2001) have been used to

examine the unique (separate) contribution of traits for explaining relevant key outcome variables related to job and career success. Moreover, earlier empirical studies showed that combinations of Big Five traits (i.e., interactive effects) are instrumental in predicting key outcome variables (see, e.g., Ilies, Scott, & Judge, 2006; Jensen & Patel, 2011).

Personality types (profiles), on the other hand, can represent two- or k -way ($k = 3$ or more) interactions of certain trait levels, enabling all distinguished Big Five traits to simultaneously shape the interaction pattern (Asendorpf & Denissen, 2006). Most profile solutions (using the same sample and clustering method) vary from two to five types (solutions with an increasing number of types often giving more nuances on some types, leading to a modified type “label”, but not on other types, preserving their label). Also across samples and/or clustering methods, some types may be labelled differently whereas other types are labelled identically. Table 1 summarizes previous scholarly work and portrays exemplary two to five type personality configurations. In empirical work examining job or career outcomes to date, mainly two profiles have been identified in research by De Fruyt (2002) and by Van der Wal et al. (2016).

As can be seen from Table 1, in all studies a so-called resilient (or well-adjusted) type is prevalent, accompanied by one or more different profiles having diverse labels. In terms of the Big Five, *Resilients* are generally characterised by relatively low scores on Neuroticism, as well as by high scores on all other traits. The relative size of the Resilient profile varies considerably across studies, and this variation cannot solely be attributed to a different number of profiles in the personality type configuration. As Herzberg and Roth (2006) argued, several factors may determine the size of a personality profile, including the number of profiles, sample size, sample composition, and the method by which respondents are assigned to profiles.

METHOD

Procedure and Sample

This study was carried out among a variety of employees working for various Dutch plants of a worldwide multinational (> 50 countries) in the habitat and construction markets. Employees working in diverse middle up to higher-level positions were asked to fill in an e-survey. Using company-owned lists of e-mail addresses, an independent market research agency took care of all electronic communication as well as data storage handling and guaranteed anonymity and confidentiality. To prevent Common-Method Bias (CMB), several remedies have been applied (see, e.g., Podsakoff, MacKenzie, Lee, & Podsakoff, 2012). For example, scales

TABLE 1
Exemplary Studies for Different Type Solutions (2–5 Types)

| Study | Sample | Measure | Labels | Neuroticism | Extraversion | Openness | Agreeableness | Conscientiousness | % per label | Method |
|--------------------------|--|------------------------|---|-------------|--------------|----------|---------------|-------------------|---------------------|---------------------------------|
| De Fruyt, 2002 | College graduates, N = 399 | NEO-PI-R Dutch version | Resilients Inter-/externalizers | - | + | - | + | ++ | 61.4% | Ward, cluster analysis |
| Van der Wal et al., 2016 | Anaesthesiologists, N = 655 | BFI | Resilients Distressed | -- | ++ | + | + | + | 33% | Ward, cluster analysis |
| Asendorpf et al., 2001 | Several samples; adults, students and children | NEO FFM | Resilients Overcontrollers Undercontrollers | -- | ++ | + | + | ++ | 0 | Cluster analysis/Q-sort |
| Alessandri et al., 2014 | College students samples, N = 1476 in total | BFQ | Resilients Overcontrollers Undercontrollers | -- | + | - | + | + | Diverse per country | Ward, cluster analysis |
| Ferguson & Hull, 2018 | High school students US, N = 374 | IPIP | Excitable Reserved Well-adjusted | - | ++ | + | + | - | 54% | Latent class (profile) analysis |
| Gramzow et al., 2004 | Undergraduate psychology students, N = 199 | CAQ-sort and BFI-44 | Resilients (under) Resilients (over) ('Averaged') | - | + | + | + | + | 42% | Ward, cluster analysis |
| | | | Brittle (under) Brittle (over) | ++ | + | - | - | - | 38% | Ward, cluster analysis |
| | | | | + | + | + | 0 | 0 | 27% | |
| | | | | ++ | + | - | - | - | 19% | |
| | | | | + | + | + | - | - | 16% | |

(Continued)

TABLE 1 Continued

| Study | Sample | Measure | Labels | Neuroticism | Extraversion | Openness | Agreeableness | Conscientiousness | % per label | Method |
|----------------------------|---|-----------|------------------|-------------|--------------|----------|---------------|-------------------|-------------|--|
| Leikas & Salmela Aro, 2014 | Young Finns, N = 493 | BFI-15 | Resilients | -- | + | + | + | + | 23–31% | Latent class analysis |
| | | | Overcontrolled | + | - | ? | + | + | 10–13% | |
| | | | Anti-resilients | ++ | - | - | - | - | 10–13% | |
| Altmann et al., 2013 | Intimate couples, N = 133 | NEO FFI | Averaged | 0 | 0 | 0 | 0 | 0 | 50% | Discriminant analysis based on Herzberg & Roth, 2006 |
| | | | Resilients | -- | + | + | + | + | 13% | |
| | | | Non-desirables | ++ | -- | -- | - | - | 12% | |
| | | | Undercontrollers | + | - | - | - | - | 20% | |
| Herzberg & Roth, 2006 | German adults in I (N = 1908) and prisoners in II (N = 256) | NEO FFI | Confidants | 0 | + | + | + | + | 25% | Discriminant analysis for II based on Ward for I |
| | | | Reserved | - | - | - | 0 | 0 | 26–34% | |
| | | | Resilients | -- | ++ | + | ++ | ++ | 14% | |
| | | | Overcontrolled | ++ | -- | - | 0 | - | 11% | |
| | | | Undercontrolled | + | - | 0 | -- | -- | 21% | |
| | | | Confidants | 0 | + | + | 0 | + | 19.6% | |
| Zhang et al., 2015 | Young adults (two waves, large group) | Mini-IPIP | Reserved | - | - | - | + | 0 | 22.4% | Latent class analysis |
| | | | Resilients | - | + | + | ++ | + | 10.1% | |
| | | | Rigids | + | - | - | -- | - | 9% | |
| | | | Reserved | - | - | - | - | + | 6.9% | |
| | | | Confidants | - | + | + | + | 0 | 28.5% | |
| Ordinary | 0 | 0 | 0 | 0 | 0 | 45.1% | | | | |

and scale anchors were different across the e-survey measures, and reversed items were included. Moreover, one of our main outcome variables, objective career success (see for more details Part 2), represents “factual data that are, in principle, verifiable from other sources” (Podsakoff & Organ, 1986, p. 532), comprising a data type which reduces CMB.

Our final sample consisted of 293 employees (response rate was 91.8%) and included 242 males (82.6%) and 51 females (17.4%). Their mean age was 41 years ($SD = 9.2$), and their organisational tenure was, on average, 10.7 years ($SD = 9.7$). The employees' educational level comprised the following categories: (1) primary school (1.0%); (2) high school or equivalent (45.1%); (3) lower technical and vocational degree, typically earned before 18 years old (34.1%); (4) higher technical and vocational degree, typically earned after 18 years old (17.1%); and (5) academic degree, such as a bachelor's or a master's degree (2.7%). Commonly encountered job titles are: “adjunct director” ($N = 11$), “head of department” ($N = 24$), “plant manager” ($N = 27$), “head of product group” ($N = 24$), “commercial collaborator” ($N = 50$), “administrative collaborator” ($N = 14$), “collaborator in finance and accounting” ($N = 25$), “project leader” ($N = 12$), “show room manager” ($N = 11$), and “system (IT) manager” ($N = 6$).

Measures

Personality was measured using the 60-item short version of the validated Dutch translation (Hoekstra, Ormel, & De Fruyt, 1996) of the NEO Five-Factor instrument (Costa & McCrae, 1992). All items were scored using a five-point rating scale ranging from: (1) strongly disagree to (5) strongly agree. Cronbach's alpha values for the (12-item) subscales were .69 for *Neuroticism*, .67 for *Extraversion*, .64 for *Openness to experience*, .58 for *Agreeableness* and .72 for *Conscientiousness*, respectively. A recalculation of the reliabilities excluding observations with neutral (i.e. midrange) scores provided (overall) slightly better scores, with the final lowest value being .63, more specifically, for *Agreeableness*. Given these slightly improved Cronbach's alpha values and following the argumentation by Krueger et al. (2012), we accepted the somewhat lower alpha levels (and, obviously, included the neutral response category).

Analytical Strategy

Using respondents' mean item scores for the NEO subscales, a special form of “mixture modelling” namely “latent profile analysis” (see for details Oberski, 2011) was relied on. Unlike the traditional “hard clustering” techniques (e.g., *k*-means clustering), in which an individual is entirely assigned to one cluster (here: latent profile), latent profile analysis derives a probabilistic

cluster solution (here: latent profile configuration). Obviously, all latent profile probabilities calculated for the same individual sum up to 1.00.

Latent profile analyses were run in MPlus version 7.11 (Muthén & Muthén, 1998–2012) to derive alternative latent profile configurations, each configuration containing a different number (i.e., two, three, four, or five) of latent profiles. Statistically speaking, the choice for one of the alternative latent profile configurations, each of them representing an increasing number of personality types, is guided by a series of statistical comparisons of latent profile configurations containing k versus $k - 1$ latent profiles ($k = 2$ first, then $k = 3$, $k = 4$, $k = 5$, etc.). Such a statistical comparison is enabled through the Vuong-Lo-Mendell-Rubin Likelihood Ratio Test (LRT) and its adjusted variant (i.e., the Adjusted LRT). In addition to statistical comparisons of alternative latent profile configurations, content-wise examination of each latent profile configuration guided our final choice. In line with personality (profile) descriptions as found in other studies using latent profile analysis (see Ferguson & Hull, 2018), each individual (employee) may be assigned to the most likely latent (personality) profile.

Latent Profile Configurations of Employees' Personalities

Using our data, successive statistical comparisons of latent profile configurations using the Vuong-Lo-Mendell-Rubin Likelihood Ratio Test (LRT) showed that: (a) two latent profiles are preferable to one latent profile ($p = .01$); (b) three latent profiles are *not* preferable to two latent profiles ($p = .28$); and (c) four latent profiles are *not* preferable to three latent profiles ($p = .09$). For more detailed results, we refer to the online supplement for this study.

The two resulting personality types can be recognized as the *Resilients* (with relatively low scores on neuroticism and relatively high scores on the other traits) and the *Internalizer/Externalizer* type (with relatively high scores on neuroticism and relatively low scores on the other traits, especially extraversion and agreeableness) of De Fruyt (2002). These types are also comparable with the two types identified by Van der Wal et al. (2016), who labelled the *Resilients* type *Well-adjusted* and the *Internalizer/Externalizer* type *Distressed*. For more detailed (statistical and content-wise) information of alternative typologies including three, four and five profiles, we refer to the online supplement.

For the purpose of cross-validation, we repeated our latent profile analyses using a second data set (e-survey data from Dutch teachers in higher education; the same personality measures were used). This cross-validation attested to a latent profile configuration with two latent profiles (for further details see the online supplement).

All in all, our (two) derived latent profiles are very similar to the personality typology as identified by De Fruyt (2002) and by Van der Wal et al. (2016). Therefore, we decided to base all subsequent analyses on the latent profiles identified.

PART 2: EXPLAINING CAREER SUCCESS BY BIG FIVE TRAITS AND TYPES

Objective and Subjective Career Success

Objective career success was measured using three single items (Gattiker & Larwood, 1988). *Objective hierarchical success* was measured as the number of promotions, which was defined as “any increase in hierarchical level and/or any significant increase in job responsibilities or job scope” employees have experienced “since joining their current organization” [*organization-specific objective hierarchical success* (first item)] and “in their entire career” [*overall objective hierarchical success* (second item)]. *Objective financial success* was measured as the logarithm of *current gross income* (per month) (excluding bonuses, share options, etc.) (third item).

Subjective career success was measured using five multi-item scales from Gattiker and Larwood (1986) comprising *job success* (8 items; Cronbach's alpha was .68, example item: “I am fully backed by management in the work I do”), *interpersonal success* (4 items; Cronbach's alpha was .62, example item: “I am respected by my peers”), *hierarchical success* (4 items; Cronbach's alpha was .61, example item: “I am pleased with the promotions I have received so far”), *financial success* (3 items; Cronbach's alpha was .70, example item: “I am receiving fair compensation compared to my peers”) and a non-organisational component, so-called *life success* (4 items; Cronbach's alpha was .66, example item: “I am satisfied with my life overall”). All items were scored on a five-point rating scale ranging from: (1) disagree completely to (5) agree completely.

Career satisfaction was measured by means of the frequently used and thoroughly validated five-item Career Satisfaction Scale (Greenhaus, Parasuraman, & Wormley, 1990). All items were scored on a five-point scale ranging from: (5) strongly disagree to (1) strongly agree. An example item is: “I am satisfied with the progress I have made toward meeting my overall career goals”. Numerous studies have attested to the high internal consistency of this scale; Cronbach's alpha values systematically exceeded .80 (Judge, Kammeyer-Mueller, & Bretz, 2004; Seibert & Kraimer, 2001). In our sample, Cronbach's alpha was .79.

Additionally, given their previously found effects on career success (see also Ng, Eby, Sorensen, & Feldman, 2005), the following socio-demographic control variables were included: age, gender, and highest educational qualification. Moreover, tenure with current employer (in years), being an important career-related variable, was included as well.

To analyse the impact of personality (both types and traits) on career success outcomes we relied on regression analyses.

RESULTS

Descriptives and Correlations for all Study Variables

First, for the entire sample, descriptive results for, and correlations between, all study variables are presented in Table 2.

Both the correlational data (i.e., correlations are all below .60) and Variance Inflation Factor (VIF) calculations (highest VIF value: 1.78) did not reveal a multi-collinearity issue. The (significant) correlations as found in Table 2 are in line with previous and meta-analytic findings on traits, except for the negative correlations between Extraversion and Openness on the one hand, and perceived financial success on the other hand. All control variables (age, gender, educational qualification, and organisational tenure) were found to have substantial associations with one another and at least some of the outcome variables. Therefore, we included all control variables in all our regression analyses.

Personality Traits and Types Explaining Objective Career Success

Linear regression analyses were performed to examine the effects of traits and types on objective career success. For the results we refer to Table 3.

As shown in Table 3, *traits* appeared to have no significant association with the number of promotions within the employee's current organization. However, *Agreeableness* appeared to be significantly negatively associated with the number of promotions made during one's entire career. Furthermore, *Neuroticism* showed a significant negative association with (the logarithm of) income. For all other traits, no associations with objective career success outcomes were found. When examining our two-type personality configuration, the *Resilient* personality type did not show any significant association with any objective career success outcomes. Differences in explained variance (adjusted R^2) of the regression models for traits versus types, appeared to be small. Across all objective career success outcomes, the largest difference in the amount of explained variance between traits and types amounted up to 0.031, meaning 3.1 percentage points.

Personality Traits and Types Explaining Subjective Career Success

In a next step, linear regression analyses were performed to examine the effects of traits and types on subjective career success outcomes. The results are shown in Table 4.

The results in Table 4 (as opposed to Table 3) show that the difference in adjusted R^2 between models based on traits versus types was more pronounced

TABLE 2
Means, Standard Deviations and Pearson's Correlations for All Variables in the Study (N = 293)

| Variables | M | SD | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|------------------------|-------|------|---------|---------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|-------|-------|---------|-------|---------|
| 1. Neuroticism | 2.0 | 0.4 | - | | | | | | | | | | | | | | | | |
| 2. Extraversion | 3.6 | 0.4 | -0.40** | | | | | | | | | | | | | | | | |
| 3. Openness | 3.0 | 0.4 | -0.19** | 0.31** | | | | | | | | | | | | | | | |
| 4. Agreeableness | 3.8 | 0.4 | -0.23** | 0.16** | 0.20** | | | | | | | | | | | | | | |
| 5. Conscientiousness | 4.0 | 0.3 | -0.34** | 0.32** | 0.12* | 0.28** | | | | | | | | | | | | | |
| 6. No. prom. (org.) | 1.4 | 1.7 | 0.05 | -0.06 | -0.04 | -0.01 | -0.01 | | | | | | | | | | | | |
| 7. No. prom. (car.) | 3.5 | 2.4 | -0.11 | 0.09 | 0.16** | -0.06 | 0.03 | 0.46** | | | | | | | | | | | |
| 8. Gross wage | 3517 | 3754 | -0.04 | 0.06 | 0.14* | 0.02 | 0.04 | 0.09 | 0.16** | | | | | | | | | | |
| 9. Job success | 3.5 | 0.5 | -0.33** | 0.26** | 0.06 | 0.09 | 0.25** | 0.16** | 0.25** | 0.13* | | | | | | | | | |
| 10. Intersp. success | 4.0 | 0.4 | -0.28** | 0.19** | 0.07 | 0.20** | 0.28** | 0.10 | 0.01 | 0.06 | 0.40** | | | | | | | | |
| 11. Financial success | 2.9 | 0.6 | -0.02 | -0.23** | -0.16** | 0.03 | -0.08 | 0.08 | 0.05 | 0.06 | 0.16** | 0.01 | | | | | | | |
| 12. Hierarch. success | 3.4 | 0.6 | -0.24** | 0.25** | 0.03 | 0.07 | 0.20** | 0.19** | 0.21** | 0.05 | 0.47** | 0.18** | 0.09 | | | | | | |
| 13. Life success | 4.4 | 0.4 | -0.37** | 0.29** | 0.07 | 0.17** | 0.28** | 0.01 | 0.05 | 0.10 | 0.25** | 0.22** | -0.09 | 0.14* | | | | | |
| 14. Car. satisfaction | 3.5 | 0.5 | -0.16** | 0.11 | -0.05 | 0.08 | 0.11 | 0.21** | 0.24** | 0.13* | 0.57** | 0.18** | 0.33** | 0.51** | 0.06 | | | | |
| 15. Age | 41.2 | 9.2 | 0.03 | -0.09 | 0.08 | 0.15* | 0.00 | 0.18** | 0.32** | 0.24* | 0.15* | 0.02 | 0.15* | -0.16** | -0.04 | 0.14* | | | |
| 16. Female | 17.4% | | 0.18** | -0.06 | 0.04 | 0.13* | -0.03 | -0.12* | -0.20** | -0.17** | -0.20** | -0.10 | -0.07 | -0.12* | -0.07 | -0.04 | -0.24** | | |
| 17. Education | 2.8 | 0.8 | -0.12 | 0.11 | 0.16** | -0.03 | 0.11 | -0.17** | -0.06 | 0.03 | 0.02 | 0.02 | -0.06 | 0.06 | 0.01 | -0.03 | -0.28** | 0.06 | |
| 18. Org. ten. in years | 10.7 | 9.7 | 0.15** | -0.10 | -0.13* | 0.01 | -0.06 | 0.44** | 0.05 | 0.14* | 0.05 | -0.02 | 0.10 | -0.11 | -0.03 | 0.11 | 0.56** | -0.03 | -0.25** |

Notes. Correlations involving the variable female are Spearman's rho correlations. * $p < .05$, ** $p < .01$

TABLE 3
Regression Models Based on Traits versus Types:
Objective Career Success ($N = 293$)

| | <i>Objective career success</i> | | |
|------------------------------------|---|---|---|
| | <i>Number of promotions in the organisation</i> | <i>Number of promotions in one's career</i> | <i>Log₁₀(Current Gross Income)</i> |
| Trait-approach | | | |
| Intercept | 1.610 | 1.357 | 3.067** |
| Female | -0.633* | -0.452 | -0.190** |
| Age | -0.035** | 0.105** | 0.008** |
| Education | -0.186 | -0.090 | 0.024* |
| Organisational Tenure | 0.089** | -0.037* | <0.000 |
| <i>Neuroticism</i> | -0.010 | -0.418 | -0.058* |
| <i>Extraversion</i> | -0.253 | 0.407 | 0.038 |
| <i>Openness</i> | 0.267 | 0.628 | 0.041 |
| <i>Agreeableness</i> | 0.057 | -1.161* | -0.044 |
| <i>Conscientiousness</i> | 0.194 | 0.103 | 0.022 |
| Model Fit: | | | |
| R^2 | 0.229 | 0.175 | 0.398 |
| Adjusted R^2 | 0.205 | 0.149 | 0.378 |
| Type-approach: | | | |
| Intercept | 2.235** | -0.172 | 3.112** |
| Female | -0.580* | -0.705 | -0.209** |
| Age | -0.029* | 0.102** | 0.008** |
| Education | -0.162 | 0.019 | 0.032** |
| Organisational Tenure | 0.086** | -0.042* | 0.000 |
| <i>Resilient type</i> ^a | -0.096 | -0.163 | 0.042 |
| Model Fit: | | | |
| R^2 | 0.223 | 0.133 | 0.359 |
| Adjusted R^2 | 0.209 | 0.118 | 0.347 |

Note: Unstandardised regression coefficients are displayed.

^aThe *Distressed* type is taken as the reference category.

* $p < .05$, ** $p < .01$

in cases where subjective career success outcomes were explained (i.e. up to a difference of 8.8 per cent for *life success*).

As regards the trait models, significant associations involved *Conscientiousness* (positive association) and *Neuroticism* (negative

TABLE 4
Regression Models Based on Traits versus Types: Subjective Career Success ($N = 293$)

| | <i>Subjective career success</i> | | | | | <i>Career satisfaction</i> |
|--------------------------|----------------------------------|------------------------------|--------------------------|-----------------------------|---------------------|----------------------------|
| | <i>Job success</i> | <i>Interpersonal success</i> | <i>Financial success</i> | <i>Hierarchical success</i> | <i>Life success</i> | |
| Trait-approach: | | | | | | |
| Intercept | 2.565** | 2.904** | 4.788** | 2.696** | 3.731** | 3.189** |
| Female | -0.143* | -0.088 | -0.060 | -0.198* | -0.036 | 0.029 |
| Age | 0.007 | -0.001 | 0.008 | -0.012* | -0.004 | 0.007 |
| Education | 0.011 | -0.009 | 0.015 | -0.011 | -0.029 | 0.004 |
| Organisational Tenure | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 | 0.003 |
| <i>Neuroticism</i> | -0.245** | -0.156* | -0.209* | -0.163 | -0.289** | -0.172* |
| <i>Extraversion</i> | 0.177* | 0.043 | -0.350** | 0.218* | 0.138* | 0.106 |
| <i>Openness</i> | -0.055 | -0.011 | -0.192* | -0.053 | -0.023 | -0.131 |
| <i>Agreeableness</i> | -0.018 | 0.136 | 0.129 | 0.062 | 0.076 | 0.027 |
| <i>Conscientiousness</i> | 0.185* | 0.211** | -0.121 | 0.165 | 0.182* | 0.066 |
| Model Fit: | | | | | | |
| R^2 | 0.186 | 0.137 | 0.102 | 0.130 | 0.192 | 0.067 |
| Adjusted R^2 | 0.161 | 0.109 | 0.073 | 0.102 | 0.167 | 0.037 |
| Type-approach: | | | | | | |
| Intercept | 3.217** | 3.989** | 2.594** | 3.870** | 4.530** | 3.246** |
| Female | -0.219** | -0.105 | -0.066 | -0.246** | -0.097 | -0.024 |
| Age | 0.005 | 0.000 | 0.009 | -0.013** | -0.005 | 0.005 |
| Education | 0.024 | 0.001 | -0.008 | 0.001 | -0.014 | 0.005 |

(Continued)

TABLE 4 Continued

| | <i>Subjective career success</i> | | | | | |
|------------------------------------|----------------------------------|------------------------------|--------------------------|-----------------------------|---------------------|----------------------------|
| | <i>Job success</i> | <i>Interpersonal success</i> | <i>Financial success</i> | <i>Hierarchical success</i> | <i>Life success</i> | <i>Career satisfaction</i> |
| Organisational Tenure | 0.001 | 0.000 | 0.002 | 0.001 | 0.002 | 0.003 |
| <i>Resilient type</i> ^a | 0.349** | 0.266** | -0.085 | 0.284** | 0.364** | 0.119 |
| Model Fit | | | | | | |
| R² | 0.124 | 0.068 | 0.026 | 0.081 | 0.095 | 0.028 |
| Adjusted R² | 0.109 | 0.052 | 0.009 | 0.065 | 0.079 | 0.011 |

Note. Unstandardised regression coefficients are displayed.

^aThe *Distressed* type is taken as the reference category.

** $p < .05$, *** $p < .01$

association) on the one hand, and subjective career success outcomes, on the other hand. Furthermore, *Extraversion* showed a significantly positive association with three out of the six subjective career success outcomes (job, hierarchical, and life success). In addition, *Extraversion and Openness* showed one significantly negative association with financial success. In line with earlier studies, *Agreeableness* appeared not to be (significantly) associated with any of the subjective career success outcomes.

As regards the so-called type models, we found that the *Resilient* type had significant positive associations with four out of the five subjective career success outcomes, excluding financial success. Additionally, no significant association was found between profiles and career satisfaction.

DISCUSSION AND CONCLUSION

The purpose of this study was two-fold: First, to derive a meaningful (Big Five) personality type configuration (for the sample at hand) and, second, to systematically assess the predictive value of the set of five Big Five traits versus personality types with respect to career success outcomes. Related to our first purpose, our Latent Profile Analysis using Big Five data led to a convincing configuration including two personality types (profiles) which resembled the personality types as previously identified by De Fruyt (2002) and by Van der Wal et al. (2016). Our sample does not support configurations including three personality types, which in some studies (see, e.g., Alessandri et al., 2014; Asendorpf et al., 2001), seem to be considered as being established both statistically and content-wise, that is, as regards the meaning of the types. It may well be that the most adequate configuration of personality types using Big Five data is dependent on “study context” (e.g., sample characteristics) as well as on “study method” (e.g., the analytical procedure used to identify personality types). In other words, a personality configuration, which seems most adequate for the study at hand, may not be fully comparable to personality configurations as identified in previous research as each and every profile that is found using different data sets is in fact unique. In this respect, trait activation theory (Tett & Burnett, 2003) suggests that situational factors cue the expression of traits at work and, as a result, the same trait may be expressed in different ways in different contexts, and/or across different jobs.

As regards our second purpose, our data supported previous notions in the literature that being a *Resilient* personality type can have positive consequences for one's career. Our regression analyses (predicting career outcomes based on Big Five traits) produced trait-outcome associations that are congruent with results as obtained in earlier (meta) analyses. All identified

significant associations between traits and career success outcomes are congruent, except for the negative association between *Openness* and *Extraversion* on the one hand and perceived financial success on the other hand. It might be that especially people who score high on *Openness* may not be that easily satisfied with the financial rewards for their labour. In this respect, Ganzach and Pazy (2015) found that *Openness* is well associated with *actual* income of both men and women. Dissatisfaction with one's current income status might therefore help in being focused on obtaining a higher income later in time. An interpretation of the negative association between *Extraversion* and perceived financial success might be that people scoring high on this trait might be more inclined to actually report their dissatisfaction with their income through their score on this scale. The same results could account for being a Resilient type of personality [i.e. also implying high(er) scores for *Openness* and *Extraversion*] and (perceived) financial success in our study. However, we did not find such an effect.

In line with earlier findings (see, e.g., Asendorpf & Denissen, 2006), we identified a loss of explanatory power when using a type-based representation of personality compared to a trait-based representation, in particular in explaining subjective career success. Taking into account as well that the explanatory power of personality is known to be larger for subjective career outcomes than for objective career outcomes (see, e.g., Ng & Feldman, 2014), one may convincingly argue for the use of traits over the use of types in a (predictive) statistical analysis. In comparison to types, traits have both higher explanatory power and they reveal more explicit effects. That being said, when considering the practical relevance of personality at work, considering types may still be worthwhile. After all, the *Resilient* type is consistently returning in the literature as the preferable type in terms of, for example, social, health-related and work-related outcomes. In addition, personality types were found to be useful in different contexts in which interaction with people happens on a daily basis (see, e.g., Altmann et al., 2013; Roth & Von Collani, 2007). Taken all together, as personality is not rigid, yet rather changeable to a certain extent (see also Wille et al., 2013), it might be worth taking personality into account in career counselling or coaching, in order to stimulate employee behavioural patterns that are known for their positive effects on career success.

The present study has limitations as well. First, our (male-dominated) data have all been collected using self-reports for both personality and career success outcomes, herewith risking some common-method bias (see, e.g., Podsakoff et al., 2012). In future scholarly work, studies should therefore include both males and females in a more balanced representation, using multi-method measurements in a longitudinal design, to overcome

the cross-sectional nature of this study as well (De Lange, Taris, Kompier, Houtman, & Bongers, 2004). Moreover, personality may not only predict career outcomes, yet also reciprocal effects might be possible (Sutin, Costa Jr, Miech, & Eaton, 2009). It would therefore be worthwhile to further study possible reversed causality issues, and developments in both personality and career outcomes over time (see also Ganzach & Pazy, 2015; Wille et al., 2013).

The current study did not include situational factors that may also moderate the personality-career success relationship. For example, high-quality leader-subordinate relationships (LMX; Leader-Member eXchange) and perceived organisational support are known to moderate the work value fit with career success (see, e.g., Erdogan et al., 2004). Similarly, these factors might be relevant for the personality-career success relationship.

Despite these limitations, this research adds to the literature in two important ways: the present study is the first that systematically compares a two-type solution for personality types, as regards their comparative and complementary value, to traits in explaining both objective and subjective career success. Second, this study acknowledges the complementary value of types based on the Big Five scores, in addition to the Big Five traits. Although from a statistical point of view, traits have the advantage of revealing the most (trait) specific information on what personality characteristics explain different aspects of career outcomes, in day-to-day reality, using profiles makes more sense. Moreover, as up until now, in the context of work and organisations, a more integrated indication of personality (types) is often applied by using unreliable and invalid methods (Vermeren, 2013), we call for more empirical work using latent profile analyses that is aimed at enhancing our insights into how personality and career success are interrelated.

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SUPPORTING INFORMATION

Additional supporting information may be found in the online version of this article at the publisher's web site:

Sample 1. Statistical Model Comparisons to Derive Cluster Solutions for Sample 1 and Sample 2