

Linking Career Exploration, Self-Reflection, Career Calling, Career Adaptability and Subjective Well-Being: A Self-Regulation Theory Perspective

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Introduction: In the post-pandemic era, the cultivation of vocational adaptability among college students holds equal significance to fostering subjective well-being in the face of an increasingly daunting professional landscape. This intricate process can be influenced by exploratory expeditions into potential career paths, sincere introspection, and a profound sense of vocation.

Methods: Drawing upon Bandura's self-regulation theory, this research project employed structural equation modeling (SEM) to scrutinize the interconnectedness between career exploration, self-reflection, vocational calling, vocational adaptability, and subjective well-being within a sample of 1077 Chinese undergraduates.

Results: The findings demonstrated that career exploration and self-reflection positively predicted career adaptability and subjective well-being. In addition, career calling had a significant mediating effect in this model.

Conclusion: The findings of this study shed light on the significance of career exploration and self-reflection in fostering both adolescent career adaptability and subjective well-being. And are expected to provide a reference for the career construction and development of college students and career education in colleges and universities.

Keywords: career exploration, self-reflection, career calling, career adaptability, subjective well-being

Introduction

University is a critical period for an individual's career development, which is a period of preparation before entering the workforce.¹ As per data furnished by China's Ministry of Education, the number of college graduates soared to a staggering 10.76 million in 2022, representing a year-on-year increase of 1.67 million. Against the backdrop of a burgeoning workforce and the ramifications of the novel coronavirus pandemic on the economy, the employment prospects confronting these graduates are daunting and intricate.^{2,3} Thus, fortifying their career adaptability assumes particular significance, equipping them with the capacity to navigate and acclimate to fluctuations and circumstances. Career adaptability is a good indicator to measure the ability of individuals to prepare, adapt and adjust to social and environmental changes, including career concern, career curiosity, career control, and career confidence.⁴ It plays a crucial role in the development and construction of an individual career, affecting future career satisfaction, salary, job performance and other important factors.^{5,6}

At the same time, there is an increasing concern for people's inner experiences which is no exception in the field of individual career development.⁷⁻⁹ Most adolescents and young adults are free of serious physical illness, yet they experience and report considerable psychosomatic, career and psychological distress symptomatology.¹⁰ Psychosocial factors may play a decisive role in distress.¹¹ Among them, individual psychosocial health is closely related to career

development. Studies have shown that career development is significantly related to life experience factors, such as life satisfaction and happiness.¹² It is evident that life experience and career development are equally important,¹³ that is, how to maintain good psychological health and positive life under the dual pressures of social mental health and personal physical and mental health. Therefore, in addition to focusing on the development of university students' occupational adaptability, it is also necessary to explore their life situations.

Therefore, this study selects subjective well-being, a widely agreed factor for evaluating daily life experiences,¹⁴ into the analysis framework, focuses on the influence mechanism of career adaptability and subjective well-being and explores the role of career exploration and self-reflection in it. According to self-regulation theory, individuals can enhance the maintenance and regulation of their behavior by setting behavioral standards for themselves through available elements, including three dynamic and cyclical processes of self-observation, self-judgment, and self-reaction.¹⁵ Among them, self-reaction is expressed as an internal experience and reaction, such as career adaptability and subjective well-being in this study, influenced by self-observation and judgment. Research has shown that career exploration provided extensive career information is an important influencing factor in facilitating the development of career adaptability,^{16,17} which is similar to self-observation in which individuals provide the necessary information to achieve regulation and self-direction of their behavior and cognition. In addition, self-reflection can help individuals understand and clarify their career goals, and further improve career adaptability through deep learning about past experiences.¹⁸ This process usually involves comparison and evaluation of current situation and previous experiences as well as future expectations,¹⁹ which is a form of self-judgment.²⁰ Based on this, the present study views career exploration (self-observation) and self-reflection (self-judgment) in an individual's career development as a regulatory process for individuals to enhance career adaptability and subjective well-being (self-reaction).

However, in general, there are some debates about the role of career exploration and self-reflection in career development: on the one hand, the relationship between the effects of career exploration and career adaptability has not been determined, and there are studies on both the former's effects on the latter²¹ and the latter's effects on the former;²² on the other hand, the role of self-reflection in individual career development is not always positive and it may not lead to self-growth and development.²³ Therefore, it is necessary to further explore what the mechanism is about those variables and the present study adds the following aspects: based on self-regulation theory, we first explore the impact of career exploration and self-reflection on career adaptability and subjective well-being. Secondly, we explore the role of calling in career development. As the core of helping people to understand their life and work comprehensively,²⁴ career calling influenced by personal and environmental factors is closely related to self-regulation.²⁵ Studies have defined calling in different methods and it is generally accepted that it can adapt to changing environments and emphasizes a sense of personal meaning.²⁶ Thus, career calling with motivational power tend to be "improvers" who actively adapt and experience well-being.^{27,28} We, therefore, propose that career calling mediates the effects of career exploration and self-reflection on career adaptability and subjective well-being (Figure 1).

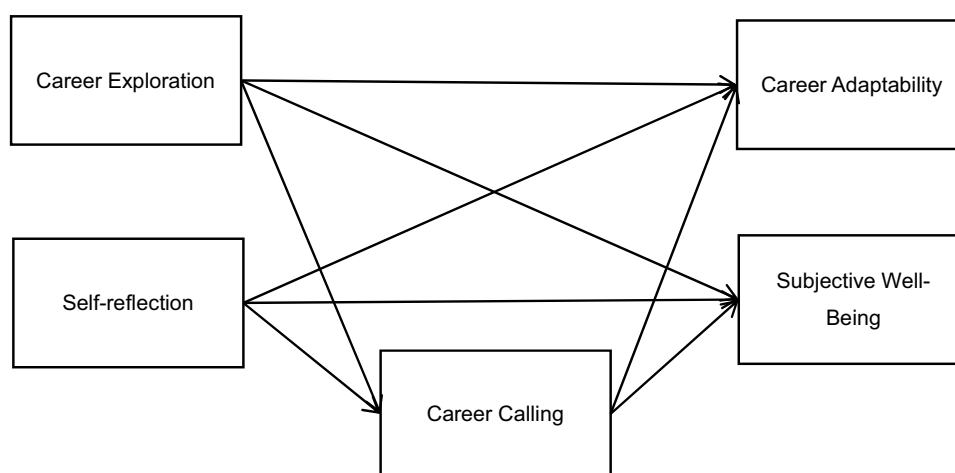


Figure 1 Theoretical framework.

The contribution of this study is mainly reflected in the following aspects. First, based on self-regulation theory, we unified career exploration and self-reflection into the analytical framework and explored the interaction between the two in the construct of career development. Second, we explore subjective well-being as an analytical variable to jointly focus on the career and life development of students. Finally, we extended the literature related to career calling to further consider the role of career exploration and self-reflection, providing more evidence for the research related to calling and career adaptability.

Theory and Hypothesis Development

Career Exploration, Self-Reflection and Career Adaptability

As a purposive behavior and cognitions in the process of career development,¹⁷ career exploration plays an important role in the transition period of students from university to social work.²⁹ Career exploration includes self-exploration and environment exploration.¹⁷ The former is committed to exploring their own career interests and abilities, forming a career self-concept and understanding the impact of their own traits on career development;³⁰ the latter focuses on exploring the external environment and discovering employment information, opportunities and obstacles.¹⁷ Through the exploration of inner interests and values as well as opportunities and obstacles in the external environment, individuals can know how to shape their future career and make career decisions.^{17,30} Existing research shows that active exploration in career development can promote curiosity and concern for possible future vocation,³¹ further clarify career development goals and make more career-adaptive behaviors.³²

Self-reflection refers to a purposeful and intentional cognitive process through which individuals can understand and reconstruct the meaning of past experiences.¹⁹ In the field of career development, individuals' reflection is considered as a good predictor of career adaptability.¹⁸ Classroom's education research based on self-reflection has also been confirmed to help students acquaint with themselves and improve their career adaptability.³³ Since self-reflection can strengthen the cognition of individual experience and make effective improvement through the examination and evaluation about their own thoughts, behaviors, results and emotions,^{34,35} it would help individuals to self-regulate effectively and thereby adjust flexibly their own professional requirements and adapt changes in work environment.³⁶

According to self-regulation theory, individuals will search for information from various aspects through self-observation, and then make self-judgment and self-evaluation to regulate their cognition, emotion and behavior.³⁷ The process of individual exploration and self-reflection on their own career can be regarded as a kind of observation and judgment about their own internal and external conditions, which may help individuals fully grasp information and produce more adaptive behaviors in career development. Studies have shown that individuals' exploration and reflection of their self-characteristic and career-related environment facilitates the acquisition of information and the making of judgments and decision.^{30,36,38–40} At the same time, self-regulation is associated with variables in career development such as career management, career construction and career maturity, and is a measure of career adaptability.^{41–43} Thus, career exploration and self-reflection have an impact on career adaptability. Combining all of the above analyses, the following hypotheses are proposed:

Hypothesis 1(a): Career exploration positively predicts career adaptability.

Hypothesis 1(b): Self-reflection positively predicts career adaptability.

Career Exploration, Self-Reflection and Subjective Well-Being

Bandura,¹⁵ proposed in self-regulation theory that individuals have an inner experience following self-observation and self-judgment, such as self-satisfaction, pride, and self-complaint. This experience in the mind is called self-reaction which is based on the evaluation of the individual's behavior. The sense of meaning and well-being experienced by an individual is also an inner experience, which is closely related to self-regulation.⁴⁴ In the process of individual career construction, career exploration is positively correlated with career decision-making self-efficacy, career support, employability and other factors.^{45,46} These factors tend to help individuals establish a positive and healthy psychology.^{47,48} Specifically, study has found that individuals have higher satisfaction and greater sense of achievement

when they engage in work after career exploration.⁴⁹ Similarly, it also leads to higher levels of life satisfaction which is considered to be a valid predictor of subjective well-being.^{44,50} It can be seen that career and life are closely related, which is confirmed by numerous researchers.⁴⁷ Therefore, in the present study, career exploration can not only affect an individual's career development, but this effect may also migrate to an individual's internal experience and affect their life satisfaction.

In addition, self-reflection helps individual to detect and reflect on the meaning of the activities they want to engage in, their own mind and effectiveness so as to form self-judgment and to promote cognitive revision.¹⁵ As a cognitive self-awareness, self-reflection is associated with many positive psychological qualities.^{51,52} Study demonstrated that self-reflective individuals are more inclined to seek meaning and have a stronger sense of meaning in life.⁵³ A greater sense of meaning in life, and therefore the sense of subjective well-being, may also be stronger.⁵⁴ Moreover, Stein and Grant⁵⁵ point out self-reflection can enhance the level of well-being through insight. And it can also moderate the negative effects of rumination on well-being.⁵⁶ So considering the positive effect of self-reflection, those who actively reflect may be happier in their inner experience. Combining all of the above analyses, the following hypotheses are proposed:

Hypothesis 2(a): Career exploration positively predicts subjective well-being.

Hypothesis 2(b): Self-reflection positively predicts subjective well-being.

Mediating Role of Career Calling

In recent years, calling has received widespread attention in the field of research on career development and work. Previous studies have confirmed some career exploratory variables such as vocational identity and career thoughts facilitates the evocation of calling.⁵⁷ In a similar vein, high levels of career exploration have been shown to be associated with an increase in career calling, which play an important mediating role in the influence of family influences and work ethic on career calling.⁵⁸ This suggest that individuals' exploratory behavior in career development may be a good predictor of career calling. Moreover, career calling that is considered to have an incentive force, pro-social effect and other realistic meanings are also influenced by self-reflection and self-evaluation. Some studies confirm the idea that, on the one hand, calling may originate from internal self-reflection and require intense self-exploration,^{59,60} on the other hand, positive core self-assessment is more likely to develop career calling.⁶¹ Therefore, there may be a correlation between self-reflection and career calling.

According to self-regulation theory, an individual's self-reaction and behavior is based on the evaluation caused by self-judgment and self-observation, involving the regulation of cognition, emotion, and behavior in career development.¹⁵ And the regulation of such psychological processes has been found to be positively associated with living a calling.²⁵ From the theoretical perspective, the self-evaluation formed by individual's career exploration and self-reflection triggers different levels of career adaptability and subjective well-being, which is closely related to the achievement of standards and the realization of one's own values and meanings. And career calling just happens to involve seeking and realizing one's sense of value and meaning.⁶² Studies have shown that career calling plays a positive role in realizing the meaning of work.⁶³ Individuals with a high sense of calling give more meaning to their career and life and show more enthusiasm, beliefs and career commitment.⁶³⁻⁶⁵ Under the influence of this sense of calling, individuals are more adaptable in their career development,⁶⁶ as well as more able to maintain good mental health and improve life satisfaction and well-being.^{67,68} It can be implied that under the influence of career exploration and self-reflection, if an individual's self-judgment can meet the standard and fulfill the career calling, it will be conducive to the positive self-response.

Combining the above paragraph, career calling is a result of career exploration and self-reflection, as well as an element related to self-evaluative, which has an impact on the self-responses of career adaptability and subjective well-being. We therefore hypothesize that calling may be a mediator influenced by career exploration and self-reflection that can facilitate self-responses and behaviours. Therefore, we propose the following hypothesis:

Hypothesis 3(a): career calling will mediate the relationship between self-reflection, career exploration and career adaptability.

Hypothesis 3(b): career calling will mediate the relationship between self-reflection, career exploration and subjective well-being.

Materials and Methods

To explore the influencing mechanism of career adaptability and subjective well-being of Chinese college students. This study explored the effects of career exploration and self-reflection and their interaction on career calling, career adaptability and subjective well-being, as well as the mediating role of career calling according to the self-regulation theory.

Participants and Procedures

In this study, a sample of 1321 college students was drawn in 2021 using whole-group sampling, and the data were mainly obtained from students in different majors and departments at several universities in Southwest China. We contacted the relevant counsellors from different departments and majors in the three colleges to inform them of the purpose of our research and to ask for their help. With the help of the counsellors, we collected comprehensive data. At the same time, career exploration, self-reflection, career calling, career adaptability and subjective well-being were measured at different time points over a three-week period in order to avoid homogenous methods and to improve the validity of the data. At the first time point (T1), data about respondents' personal information were collected and self-reflection and career exploration were measured in turn. During the second time point (T2) a week later, their career callings were measured. Finally, the third time point (T3) saw both career adaptability and subjective well-being being measured. Moreover, this research has set up the last four digits of the respondents' mobile phone numbers separately so that the data corresponding to the abovementioned variables could be effectively matched.

After the questionnaires were collected, 1077 valid questionnaires were obtained by matching the last four digits of the mobile phone number and screening and matching according to the criteria of "completeness of the questionnaires, inconsistencies and logical errors in the questionnaires", with a sample recovery of 81.5%. The characteristics of sample data are shown in [Table 1](#).

This study used SPSS to analyze and process the data. The study began with descriptive statistics and correlational analyses of participants' background information, career exploration, self-reflection, career adaptability and other variables. Secondly, simple regression analysis and multiple linear regression analysis were used to examine the relationship between career exploration, self-reflection and career adaptability, subjective well-being. Finally, the mediating model proposed in the study was tested using structural equation modelling.

SPSS was used to analyze and process the data, while descriptive statistics and correlation analysis were conducted for participants' background information, occupational pressure, career exploration and other variables. Secondly, simple regression analysis and multiple linear regression analysis are used to test the relationship among occupational stress, career exploration, career planning and career hesitation. Finally, the proposed mediation model is tested by structural equation model.

Measurements

The variables were measured in this study using mature Western scales. Considering the differences between Chinese and Western contexts and the applicability of the scale, a translation-back-translation process was conducted⁶⁹ and 15 undergraduates were pre-tested before the formal survey, and some items were modified based on the feedback.

Career exploration was measured by The Career Exploration Scale, developed by Stumpf et al.¹⁷ The scale is based on a 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree) and includes two subscales, environmental exploration and self-exploration, with 11 questions such as "I went to various career orientation programs". Cronbach's alpha for this scale was at 0.90.

Table 1 Sample Description and Demographic Characteristics (N=1077)

| Background Characteristics | | N | (%) |
|----------------------------|---|-----|------|
| Gender | 1=male | 243 | 22.6 |
| | 2=female | 834 | 77.4 |
| Age | 1=under 18 | 110 | 10.2 |
| | 2=between 19 and 20 | 638 | 59.2 |
| | 3=21 and above | 329 | 30.6 |
| Major | 1=science | 61 | 5.7 |
| | 2=Management | 5 | 0.5 |
| | 3=Economics | 169 | 15.7 |
| | 4=Engineering | 115 | 10.7 |
| | 5=Law | 6 | 0.6 |
| | 6=Education | 30 | 2.8 |
| | 7=Literature | 3 | 0.3 |
| | 8=History | 688 | 63.9 |
| Grade | 1=freshmen | 491 | 45.6 |
| | 2=sophomores | 250 | 23.2 |
| | 3=juniors | 307 | 28.5 |
| | 4=seniors | 29 | 2.7 |
| Parents level of education | 1=Junior high school and below | 648 | 60.2 |
| | 2=High school or technical secondary school | 269 | 25 |
| | 3=junior college | 81 | 7.5 |
| | 4=Undergraduate | 74 | 6.9 |
| | 5=postgraduate or above | 5 | 0.5 |
| Parent occupation type | 1=freelance | 868 | 80.6 |
| | 2=enterprise | 126 | 11.7 |
| | 3=government or public institution | 83 | 7.7 |

Self-reflection was measured using the scale developed by Peltier et al.⁷⁰ The scale is based on a 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree) and consists of five items such as “I often tried to think about how I could do something better next time”. Cronbach’s alpha for this scale was at 0.91.

Career calling was measured by the Chinese Calling Scale (CCS), developed by Zhang et al.⁷¹ The scale with 11 questions is based on a 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree) and includes three dimensions: Altruism; Guiding force; Meaning and purpose. The dimensions of career calling are not distinguished in our study, but rather they are used as an overall indicator. Specific items such as “A calling from some kind of power makes me to choose my future career”. Cronbach’s alpha for this scale was at 0.93.

Career adaptability was measured by The Career Adaptability Scale, developed by Hou et al.⁷² The scale with 24 questions is based on a 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree) and includes four dimensions: career concern, control, curiosity, and self-confidence. Examples include: “Becoming aware of the educational and career choices that I must make”. Cronbach’s alpha for this scale was at 0.97.

Subjective well-being was measured by The Satisfaction with Life Scale, developed by Diener et al.⁷³ The scale with 5 questions is based on a 7-point Likert scale ranging from 1 (strongly disagree) to 7 (strongly agree). Examples include: “If I could live my life over, I would change almost nothing”. Cronbach’s alpha for this scale was at 0.88.

Demographics. We obtained demographic variables such as gender, age, students’ year of study, major, parents’ level of education, and parent occupation type. Descriptive statistics and correlations of each of the variables collected in this study are shown in Table 2.

Table 2 Descriptive Statistics and Correlations Analysis

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|------------------------------|---------|--------|---------|---------|--------|-------|--------|--------|--------|--------|------|
| 1=Gender | 1 | | | | | | | | | | |
| 2=Age | -0.03 | 1 | | | | | | | | | |
| 3=Grade | 0.00 | 0.68** | 1 | | | | | | | | |
| 4=Major | 0.11** | 0.13** | 0.16** | 1 | | | | | | | |
| 5=Parents level of education | -0.03 | -0.02 | 0.06 | -0.03 | 1 | | | | | | |
| 6=Parent occupation type | 0.00 | -0.05 | 0.03 | -0.04 | 0.54** | 1 | | | | | |
| 7=Career exploration | -0.09** | -0.01 | 0.04 | -0.05 | 0.08* | 0.08* | 1 | | | | |
| 8=Career adaptability | -0.04 | 0.00 | 0.05 | -0.02 | 0.00 | 0.04 | 0.49** | 1 | | | |
| 9=Self-reflection | -0.03 | -0.02 | 0.01 | -0.04 | -0.01 | 0.01 | 0.36** | 0.54** | 1 | | |
| 10=Career calling | -0.01 | 0.02 | 0.06 | -0.11** | 0.03 | 0.04 | 0.36** | 0.51** | 0.52** | 1 | |
| 11=Subjective well-being | -0.12** | -0.08* | -0.09** | -0.03 | 0.07* | 0.02 | 0.30** | 0.23** | 0.24** | 0.29** | 1 |
| Mean | 1.77 | 2.22 | 1.88 | 6.29 | 1.62 | 1.27 | 3.05 | 3.88 | 3.55 | 3.62 | 4.00 |
| SD | 0.42 | 0.63 | 0.91 | 2.42 | 0.92 | 0.59 | 0.67 | 0.64 | 0.68 | 0.62 | 1.04 |

Notes: N = 1077. * $p < 0.05$, ** $p < 0.01$.

Results

We used Harman's single factor test⁷⁴ to estimate the potential effects of common method bias in our results. This test models all items into one factor and examines the unrotated solution. It extracts a total of 8 factors with characteristic roots greater than 1. The total variance explained by that factor was 36.83%, well below the cumulated variance limit [40%) suggested by Podsakoff et al.⁷⁵ Therefore, common method bias is not a major challenge to interpretation of our results.

We conducted a confirmatory factor analysis and tested the hypothesized 5-factor model with career exploration, self-reflection, career calling, career adaptability, and subjective well-being. The model fit the data well ($\chi^2/\text{Df}[681] = 2.92$, $p < 0.001$; IFI = 0.95; TLI = 0.94; CFI = 0.95; RMSEA = 0.04), suggesting that participants were able to distinguish our key constructs. We also ran three alternative models merging pairs of constructs, and one model with a single-factor solution. None of these alternative models showed better fit indices than the hypothesized model (Table 3).

The following results transpired from the model as shown in Figure 2. Career exploration positively predicted subjective well-being ($p < 0.001$), career adaptability ($B = 0.28$, $\beta = 0.34$, $p < 0.001$) and career calling ($B = 0.16$, $\beta = 0.18$, $p < 0.001$). Supporting prediction H1a, H2a. Meanwhile, career calling positively predicted both subjective well-being ($B = 0.20$, $\beta = 0.14$, $p < 0.01$), and career adaptability ($B = 0.19$, $\beta = 0.22$, $p < 0.001$). Thus, career calling played a mediating role in the effect of career exploration on subjective well-being ($B = 0.09$, $\beta = 0.14$, 95% CI = [0.10, 0.18]), and played a mediating role in the effect of career exploration on career adaptability ($B = 0.13$, $\beta = 0.14$, 95% CI = [0.10, 0.17]). Supporting the prediction Hypothesis 3a that career calling mediate the relationship between career exploration and career adaptability; in Hypothesis 3b, career calling mediate the relationship between career exploration and subjective well-being.

Self-reflection positively predicted subjective well-being ($B = 0.14$, $\beta = 0.10$, $p < 0.05$), career adaptability ($B = 0.26$, $\beta = 0.31$, $p < 0.001$) and career calling ($B = 0.43$, $\beta = 0.45$, $p < 0.001$). Supporting prediction H1b, H2b. Similarly, the

Table 3 Confirmatory Factor Analysis

| Model | χ^2/Df | IFI | TLI | CFI | RMSEA |
|---|--------------------|------|------|------|-------|
| 1. Benchmark Model (CE, SR, CC, CA, SWB) | 2.92 | 0.95 | 0.94 | 0.95 | 0.04 |
| 2. Four factor model (CE+SR, CC, CA, SWB) | 4.26 | 0.91 | 0.90 | 0.91 | 0.06 |
| 3. Three factor model (CE+SR+CC, CA, SWB) | 5.42 | 0.87 | 0.86 | 0.87 | 0.06 |
| 4. Two factor model (CE+SR+CC, CA+ SWB) | 6.83 | 0.83 | 0.82 | 0.83 | 0.07 |
| 5. One factor model (CE+SR+CC+CA+ SWB) | 8.28 | 0.79 | 0.77 | 0.79 | 0.08 |

Abbreviations: CE, career exploration; SR, self-reflection; CC, career calling; CA, career adaptability; SWB, subjective well-being.

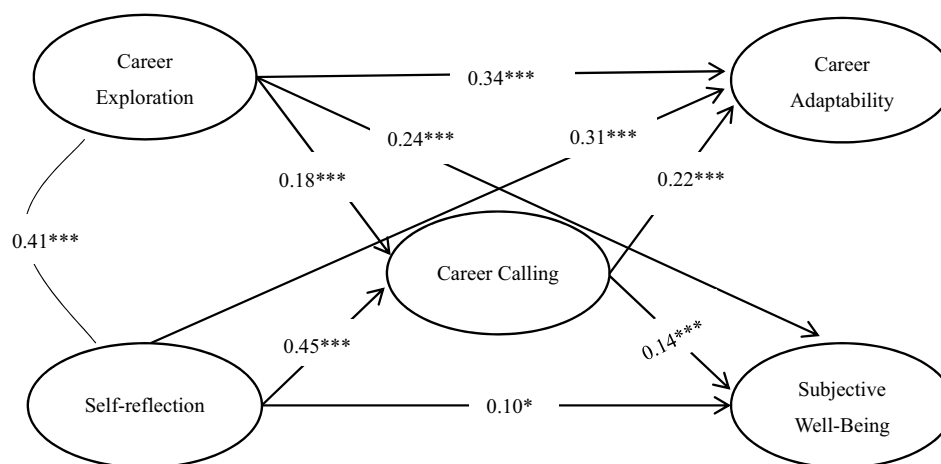


Figure 2 The meditation model with standardized coefficients. * $p < 0.05$, *** $p < 0.001$.

career calling played a mediating role in the effect of career exploration on the subjective well-being ($B = 0.10$, $\beta = 0.15$, 95% CI = [0.07, 0.12]), and mediating role in the effect of career exploration on career adaptability ($B = 0.19$, $\beta = 0.17$, 95% CI = [0.14, 0.22]). Supporting the prediction Hypothesis 3a that career calling mediate the relationship between self-reflection and career adaptability; in Hypothesis 3b, career calling mediate the relationship between self-reflection and subjective well-being. In sum, Hypothesis 3 is fully supported.

Discussion

Theoretical Implications

The present study provides several theoretical implications: first, based on the majority of studies exploring the effects of career exploration or self-reflection on career development domain, this study further considered the combined effects of both and enriched the application of self-regulation theory in career management-related studies. The results indicated that, consistent with hypotheses 1 and 2, both career exploration and self-reflection can promote the development of career adaptability and subjective well-being. Sulistiani and Handoyo⁷⁶ reviewed the literature on the influencing factors of adolescent career adaptability and its impact in the context of education and found a positive relationship between adaptability, life satisfaction and exploration, but there is still a lack of research on the connection between reflection and exploration in the career preparation stage. Therefore, the present study makes a supplement for this. At the same time, Son¹⁸ and Stein and Grant⁵⁵ examined the role of reflection in career adaptability and satisfaction. Our study therefore further supports these finding. Specifically, we found that career exploration had a slightly greater effect than self-reflection on career adaptability, and career exploration played a greater role on subjective well-being in exploring the joint effect. This indicates the importance of career exploration in individual career development and physical and mental health.

Second, when examining the mechanisms influencing career adaptability and subjective well-being, our study finds that students who engage in career exploration and self-reflection possess higher levels of career adaptability and subjective well-being, and this relationship could be explained by the mediating variable of career calling. This result is consistent with hypothesis 3. That is, students who explore their occupational environment and self or reflect on themselves are more adaptable to changes in their career field and perceive more well-being factors,^{16,18} partially because they are committed to seeking own intrinsic meaning and value, which have a high level of career calling driven by their internal dynamic for career development.²⁶ Wen et al⁷⁷ examined the mediating role of calling in the relationship between prospective personality and career adaptability, but the authors noted that there was still less attention to the antecedents of calling than its consequences. Therefore, our study used career exploration and self-reflection as antecedent variables to provide further evidence and enrich its antecedent research for the relationship between calling and adaptation. From the theoretical perspective, this study integrates the three sub-processes of Bandura's self-

regulation into our analytical framework to explore the role of calling in the influence of self-observation and self-judgment on self-response and behavior. It extends the application of self-regulation theory based on a social cognitive perspective to the vocational domain.

Practical Implications

The results of this study are expected to provide a reference for the career construction and development of college students and career education in colleges and universities.

First, students should actively explore and reflect to discover and realize calling, so as to lay a good foundation for improving their adaptability and subjective well-being. Career exploration and self-reflection can help to obtain information from various aspects, thus increasing certainty in career selection and accumulating relevant resources.⁷⁸ Specifically, college students should understand and know themselves through self-questioning (eg, what do I like? What do I want?) to seeking the meaning of life and searching a calling. In addition, students should reflect on their own personality and abilities based on self-knowledge, find a career direction that suits them, and consciously plan ahead to help perceiving a calling. Finally, they should learn to use external resources such as school, self, network and other platforms, and through practices such as part-time jobs and volunteer activities, to test own abilities and to examine the degree of fit between person and profession. Meanwhile, they should also learn about career information through indirect ways such as others' descriptions or the Internet. Through the above practical activities to succeed in living a calling.

Second, schools and teachers should provide students with timely and extensive support for exploration and reflection, and to promote their vocational calling with care. Firstly, in daily career education courses, schools and teachers should pay attention not only to the theoretical foundation related to career development such as self-education and career literacy but also to the skills education of career exploration such as how to search for career information and career practice channels. Secondly, schools should also provide extracurricular career construction services for students and help them effectively deal with difficulties or doubts in the process of exploration and reflection. For example, setting up career counseling rooms, establishing a database of career expectations and plans. Finally, in terms of promoting students' career callings, teachers or counsellors should enhance students' subjective consciousness and the sense of meaning in thinking about themselves and the employment environment, and help them to develop their own regulating mechanisms to increase their level of career callings.

Limitations and Future Research

There are still some limitations in this study. First of all, this study only collects data from the perspective of students in the process of career development, without considering the role of external factors. However, individuals often cannot develop their careers without the involvement of external factors, especially in the early stages of career exploration during university. Studies have shown that external variables play an important role in career development, such as social support, parental career behavior, and education and training experience.^{76,79} Therefore, future research could expand the study of these external factors in career development, such as the relationship with counselors, the campus learning atmosphere, geographical and climatic differences.

In addition, in the Chinese cultural context, which has emphasized the spirit of reflection and introspection since ancient times, the results of this study may differ from those of individuals in other cultural backgrounds. Ma et al⁸⁰ found that individuals in different cultures adopt different strategies of self-reflection, while Chinese culture places more emphasis on self-interpretation and construction in social relationships. Similarly, from a neuroscientific perspective, Zhu and Han⁸¹ found that Chinese people place more emphasis on the relationship between the self and others compared with Westerners who focus more on the independent self, and this difference in social cognition gives rise to different self-representation and self-identity. Furthermore, self-regulation theory states that individuals also consider social factors and make social comparisons when making self-judgments and evaluations.¹⁵ Therefore, different cultures and social contexts have different ways of thinking and adopt different reflective strategies,^{80,81} focusing on information with different sources and priorities,⁸² and may result in inconsistent self-reaction outcomes. The different results produced in this study, particularly its interaction with career exploration, may also be influenced by this factor. So exploring the influence of different cultures and societies is also a future direction.

Conclusion

The cultivation of career adaptability among university students is equally vital as the nurturing of their subjective well-being in the face of a challenging professional landscape. Broadly speaking, the findings of this study shed light on the significance of career exploration and self-reflection in fostering both adolescent career adaptability and subjective well-being. Our analysis revealed that career exploration had a slightly stronger impact than self-reflection on career adaptability, with career exploration also playing a more prominent role in enhancing subjective well-being when considering their combined effect. Students who actively engage in career exploration and self-reflection exhibit higher levels of both career adaptability and subjective well-being. This association can be understood through the mediating factor of career calling. Therefore, it is crucial to prioritize career guidance and ensure that schools and educators provide timely and comprehensive support to facilitate students' exploration of their career exploration and career callings. Although self-reflection contributes significantly, albeit to a somewhat lesser extent than the aforementioned factors, it still plays an important role in fostering career adaptability and subjective well-being when adolescents actively partake in exploration and self-reflection to uncover their aspirations.

Ethics Statement

It has obtained the ethical review and approval from the Ethics Committee of University of Electronic Science and Technology. All subjects gave written informed consent in accordance with the Declaration of Helsinki.

Acknowledgments

This research was funded by Innovation Fund of Engineering Research Center of Integration and Application of Digital Learning Technology, Ministry of Education (Project Number: 1221023); Southwest Petroleum University 2023 Humanities and Social Sciences General Fund Project (Project Number: 2022-2023RW022); Sichuan Party History and Party Building Research Center of Xihua Normal University, a key research base of humanities and social sciences in higher education in Sichuan Province (Project Number: DSDJ22-14); Ideological and Political Education Research Center of Sichuan University Students in 2023 (Project Number: CSZ23107); System Science and Enterprise Development Research Center in 2023 (Project Number: Xq23B07); Sichuan Applied Psychology Research Center (Project Number: CSXL-23328); Sichuan Tourism University (Project Number: 2021SCTUSK40).

Disclosure

The authors report no conflicts of interest in this work.

References

1. Sampson JP, Hooley T, Marriot J. *Fostering College and Career Readiness: How Career Development Activities in Schools Impact on Graduation Rates and Students' Life Success*. University of Derby; 2011.
2. Belle MA, Antwi CO, Ntim SY, Affum-Osei E, Ren J. Am I gonna get a job? Graduating students' psychological capital, coping styles, and employment anxiety. *J Career Dev*. 2022;49(5):1122–1136. doi:10.1177/08948453211020124
3. Li Z. Employment dilemma and solutions for the general college graduate in China. Proceedings of the 2020 International Conference on Social Science, Economics and Education Research (SSEER 2020); 2020. doi:10.2991/assehr.k.200801.066.
4. Savickas ML. Career adaptability: an integrative construct for life-span, life-space theory. *Career Dev Q*. 1997;45(3):247–259. doi:10.1002/j.2161-0045.1997.tb00469.x
5. Hirschi A. Career adaptability development in adolescence: multiple predictors and effect on sense of power and life satisfaction. *J Vocat Behav*. 2009;74(2):145–155. doi:10.1016/j.jvb.2009.01.002
6. Pan J, Guan Y, Wu J, et al. The interplay of proactive personality and internship quality in Chinese university graduates' job search success: the role of career adaptability. *J Vocat Behav*. 2018;109:14–26. doi:10.1016/j.jvb.2018.09.003
7. Autin KL, Blustein DL, Ali SR, Garriott PO. Career development impacts of COVID-19: practice and policy recommendations. *J Career Dev*. 2020;47(5):487–494. doi:10.1177/0894845320944486
8. Dik BJ, O'Connor WF, Shimizu AB, Duffy RD. Personal growth and well-being at work: contributions of vocational psychology. *J Career Dev*. 2019;46(1):31–47. doi:10.1177/0894845317730642
9. Shen F, Zou J, Huang X, Wang C, Zhao M. Career development, institutional factors, social factors and urban young returnees' happiness in the context of healthy China. *Int J Environ Res Public Health*. 2022;19(15):9379. doi:10.3390/ijerph19159379
10. Piko B, Barabás K, Boda K. The frequency of common psychosomatic symptoms and its influence on self-perceived health in a Hungarian student population. *Eur J Public Health*. 1997;7:243–247. doi:10.1093/eurpub/7.3.243

11. Piko B, Fitzpatrick KM. Does class matter? SES and psychosocial health among Hungarian adolescents. *J Soc Sci Med*. 2001;53(6):817–830. doi:10.1016/S0277-9536(00)00379-8
12. Hu H, Wang C, Lan Y, Wu X. Nurses' turnover intention, hope and career identity: the mediating role of job satisfaction. *BMC Nurs*. 2022;21(1):1–11. doi:10.1186/s12912-022-00821-5
13. Appleby JA, King N, Saunders KE, et al. Impact of the COVID-19 pandemic on the experience and mental health of university students studying in Canada and the UK: a cross-sectional study. *BMJ OPEN*. 2022;12(1):e050187. doi:10.1136/bmjopen-2021-050187
14. Diener E. Subjective well-being: the science of happiness and a proposal for a national index. *Am Psychologist*. 2000;55(1):34. doi:10.1037/0003-066X.55.1.34
15. Bandura A. *Social Foundations of Thought and Action: A Social-Cognitive Theory*. Englewood Cliffs, NJ: Prentice Hall; 1986.
16. Jiang Z, Newman A, Le H, Presbitero A, Zheng C. Career exploration: a review and future research agenda. *J Vocat Behav*. 2019;110:338–356. doi:10.1016/j.jvb.2018.08.008
17. Stumpf SA, Colarelli SM, Hartman K. Development of the career exploration survey (CES). *J Vocat Behav*. 1983;22(2):191–226. doi:10.1016/0001-8791(83)90028-3
18. Son S. The more reflective, the more career-adaptable: a two-wave mediation and moderation analysis. *J Vocat Behav*. 2018;109:44–53. doi:10.1016/j.jvb.2018.09.004
19. Kember D, Leung DY, Jones A, et al. Development of a questionnaire to measure the level of reflective thinking. *Assess Evaluat Higher Educ*. 2000;25(4):381–395. doi:10.1080/713611442
20. Zimmerman BJ. Becoming a self-regulated learner: an overview. *Theory Pract*. 2002;41(2):64–70. doi:10.1207/s15430421tip4102_2
21. Chen H, Liu F, Wen Y. The Influence of College Students' Core Self-evaluation on Job Search Outcomes: Chain Mediating Effect of Career Exploration and Career Adaptability. *Curr Psychol*. 2022;42:15696–15707.
22. Ma Y, Bennett D, Chen SC. Perceived organisational support and university students' career exploration: the mediation role of career adaptability. *Higher Educ Res Dev*. 2022;1–17. doi:10.1080/07294360.2022.2115983
23. Eikev EV, Caldeira CM, Figueiredo MC, et al. Beyond self-reflection: introducing the concept of rumination in personal informatics. *Person Ubiquit Comput*. 2021;25(3):601–616. doi:10.1007/s00779-021-01573-w
24. Dik BJ, Duffy RD. Calling and vocation at work: definitions and prospects for research and practice. *Couns Psychol*. 2009;37(3):424–450. doi:10.1177/0011000008316430
25. Zhang L, Zhang Y. The mediating effect of self-regulation on the association between growth mindset about work and living a calling among primary and secondary school teachers. *Psychol Res Behav Manag*. 2021;14:1675. doi:10.1177/0011000008316430
26. Praskova A, Creed PA, Hood M. Self-regulatory processes mediating between career calling and perceived employability and life satisfaction in emerging adults. *J Career Dev*. 2015;42(2):86–101. doi:10.1177/0894845314541517
27. Duffy RD, Allan BA, Autin KL, Douglass RP. Living a calling and work well-being: a longitudinal study. *J Couns Psychol*. 2014;61(4):605. doi:10.1037/cou0000042
28. Yang C, Chen A. The double-edged sword effects of career calling on occupational embeddedness: mediating roles of work–family conflict and career adaptability. *Asian Nurs Res*. 2020;14(5):338–344. doi:10.1016/j.anr.2020.09.005
29. Wu J, Dong Y, Xiong J, Cao Y. The mediating role of achievement motivation between college students' proactive personality and career adaptability and its gender differences. *Psychol Dev Educ*. 2016;32(5):547–556. doi:10.16187/j.cnki.issn1001-4918.2016.05.05
30. Blustein DL. The role of career exploration in the career decision making of college students. *J Coll Stud Dev*. 1989;30(2):111–117.
31. Guan Y, Zhou W, Ye L, Jiang P, Zhou Y. Perceived organizational career management and career adaptability as predictors of success and turnover intention among Chinese employees. *J Vocat Behav*. 2015;88:230–237. doi:10.1016/j.jvb.2015.04.002
32. Kaminsky SE, Behrend TS. Career choice and calling: integrating calling and social cognitive career theory. *J Career Assess*. 2015;23(3):383–398. doi:10.1177/1069072714547167
33. Kim JH, Shin HS. Effects of self-reflection-focused career course on career search efficacy, career maturity, and career adaptability in nursing students: a mixed methods study. *J Profess Nurs*. 2020;36(5):395–403. doi:10.1016/j.profnurs.2020.03.003
34. Daudelin MW. Learning from experience through reflection. *Organ Dyn*. 1996;24(3):36–48. doi:10.1016/S0090-2616(96)90004-2
35. Grant AM, Franklin J, Langford P. The self-reflection and insight scale: a new measure of private self-consciousness. *Soc Behav Pers*. 2002;30(8):821–835. doi:10.2224/sbp.2002.30.8.821
36. Hartung PJ, Cadaret MC. Career adaptability: changing self and situation for satisfaction and success. In: Maree K editor. *Psychology of Career Adaptability, Employability and Resilience*. Springer International Publishing; 2017:15–28. doi:10.1007/978-3-319-66954-0_2
37. Bandura A. Social cognitive theory of self-regulation. *Organ Behav Hum Decis Process*. 1991;50(2):248–287. doi:10.1016/0749-5978(91)90022-L
38. Blustein J. *Care and Commitment: Taking the Personal Point of View*. New York: Oxford University Press; 1992. doi:10.1093/acprof:oso/9780195067996.001.0001
39. Chen S, Xue Y, Chen H, Ling H, Wu J, Gu X. Making a commitment to your future: investigating the effect of career exploration and career decision-making self-efficacy on the relationship between career concern and career commitment. *Sustainability*. 2021;13(22):12816. doi:10.3390/su132212816
40. Wang HH, Chen HT, Lin HS, Hong ZR. The effects of college students' positive thinking, learning motivation and self-regulation through a self-reflection intervention in Taiwan. *Higher Educ Res Dev*. 2017;36(1):201–216. doi:10.1080/07294360.2016.1176999
41. Hirschi A, Koen J. Contemporary career orientations and career self-management: a review and integration. *J Vocat Behav*. 2021;126:103505. doi:10.1016/j.jvb.2020.103505
42. Lee H, Joo H. The relationships among career maturity, motivation, and self-regulation: a longitudinal study. *Career Dev Q*. 2022;70(3):215. doi:10.1002/edq.12295
43. Merino-Tejedor E, Hontangas PM, Boada-Grau J. Career adaptability and its relation to self-regulation, career construction, and academic engagement among Spanish university students. *J Vocat Behav*. 2016;93:92–102. doi:10.1016/j.jvb.2016.01.005
44. Van Tongeren DR, DeWall CN, Green JD, Cairo AH, Davis DE, Hook JN. Self-regulation facilitates meaning in life. *Rev General Psychol*. 2018;22(1):95–106. doi:10.1037/grp0000121
45. Kleine AK, Schmitt A, Wisse BM. Students' career exploration: a meta-analysis. *J Vocat Behav*. 2021;131:103645. doi:10.1016/j.jvb.2021.103645

46. Lent RW, Ireland GW, Penn LT, Morris TR, Sappington R. Sources of self-efficacy and outcome expectations for career exploration and decision-making: a test of the social cognitive model of career self-management. *J Vocat Behav.* 2017;99:107–117. doi:10.1016/j.jvb.2017.01.002
47. Alon R, Cinamon RG, Aram D. Working adults' future occupational plans: the contribution of role characteristics, social support, and occupational self-efficacy. *Int J Educ Vocat Guid.* 2021;1–21. doi:10.1007/s10775-021-09496-x
48. Garcia PRJM, Restubog SLD, Bordia P, Bordia S, Roxas REO. Career optimism: the roles of contextual support and career decision-making self-efficacy. *J Vocat Behav.* 2015;88:10–18. doi:10.1016/j.jvb.2015.02.004
49. Werbel JD. Relationships among career exploration, job search intensity, and job search effectiveness in graduating college students. *J Vocat Behav.* 2000;57(3):379–394. doi:10.1006/jvbe.2000.1746
50. Chen Q, Gao Y, Zhang Y. A moderated mediation model of implicit theories of intelligence and life satisfaction among Chinese adolescents. *Sch Psychol Int.* 2022;43(4):381–399.
51. Takano K, Sakamoto S, Tanno Y. Functional and Dysfunctional Self-focus, Self-acceptance, and Self-disclosure. *Jpn J Personal.* 2012;21(1). doi:10.2132/personality.21.12
52. Takebe M, Takahashi F, Sato H. Mediating role of anger rumination in the associations between mindfulness, anger-in, and trait anger. *Psychology.* 2015;6(08):948. doi:10.4236/psych.2015.68093
53. Newman DB, Nezlek JB. Private self-consciousness in daily life: relationships between rumination and reflection and well-being, and meaning in daily life. *Pers Individ Dif.* 2019;136:184–189. doi:10.1016/j.paid.2017.06.039
54. Li JB, Dou K, Liang Y. The relationship between presence of meaning, search for meaning, and subjective well-being: a three-level meta-analysis based on the meaning in life questionnaire. *J Happiness Stud.* 2021;22(1):467–489. doi:10.1007/s10902-020-00230-y
55. Stein D, Grant AM. Disentangling the relationships among self-reflection, insight, and subjective well-being: the role of dysfunctional attitudes and core self-evaluations. *J Psychol.* 2014;148(5):505–522. doi:10.1080/00223980.2013.810128
56. Elliott I, Coker S. Independent self-construal, self-reflection, and self-rumination: a path model for predicting happiness. *Aust J Psychol.* 2008;60(3):127–134. doi:10.1080/00049530701447368
57. Galles JA, Lenz JG. Relationships among career thoughts, vocational identity, and calling: implications for practice. *Career Dev Q.* 2013;61(3):240–248. doi:10.1002/j.2161-0045.2013.00052.x
58. Zhang L, Zhang Y. Family influence and career calling: the mediating role of work passion and career exploration. *J Psychol Africa.* 2022;32(1):66–72. doi:10.2989/16073614.2021.2017160
59. Elangovan AR, Pinder CC, McLean M. Callings and organizational behavior. *J Vocat Behav.* 2010;76(3):428–440. doi:10.1016/j.jvb.2009.10.009
60. Hirschi A. Callings in career: a typological approach to essential and optional components. *J Vocat Behav.* 2011;79(1):60–73. doi:10.1016/j.jvb.2010.11.002
61. Shen X, Gu X, Chen H, Wen Y. For the future sustainable career development of college students: exploring the impact of core self-evaluation and career calling on career decision-making difficulty. *Sustainability.* 2021;13(12):6817. doi:10.3390/su13126817
62. Duffy RD, Dik BJ, Douglass RP, England JW, Velez BL. Work as a calling: a theoretical model. *J Couns Psychol.* 2018;65(4):423–439. doi:10.1037/cou0000276
63. Chang P-C, Rui H, Wu T. Job autonomy and career commitment: a moderated mediation model of job crafting and sense of calling. *SAGE Open.* 2021;11(1):21582440211004167. doi:10.1177/21582440211004167
64. Chang P-C, Xiaoxiao G, Wu T. Sense of calling, job crafting, spiritual leadership and work meaningfulness: a moderated mediation model. *Leadership Organ Dev J.* 2021;42(5):690–704. doi:10.1108/LODJ-09-2020-0392
65. Davidson JC, Caddell DP. Religion and the Meaning of Work. *J Sci Study Relig.* 1994;33(2):135–147. doi:10.2307/1386600
66. Zhang C, Hirschi A, Herrmann A, et al. The Future Work Self and Calling: The Mediatonal Role of Life Meaning. *Journal of Happiness.* 2017;18:977–991.
67. Duffy RD, Torrey CL, England J, Tebbe EA. Calling in retirement: a mixed methods study. *J Posit Psychol.* 2017;12(4):399–413. doi:10.1080/17439760.2016.1187201
68. Guo Y, Guan Y, Yang X, et al. Career adaptability, calling and the professional competence of social work students in China: a career construction perspective. *J Vocat Behav.* 2014;85(3):394–402. doi:10.1016/j.jvb.2014.09.001
69. Brislin RW. The wording and translation of research instruments. In: Lonner WJ, Berry JW, editors. *Field Methods in Cross-Cultural psychology.* Sage; 1986:137–164.
70. Peltier JW, Hay A, Drago W. Reflecting on reflection: scale extension and a comparison of undergraduate business students in the United States and the United Kingdom. *J Market Educ.* 2006;28(1):5–16. doi:10.1177/0273475305279658
71. Zhang C, Herrmann A, Hirschi A, Wei J, Zhang J. Assessing calling in Chinese college students: development of a measure and its relation to hope. *J Career Assess.* 2015;23(4):582–596. doi:10.1177/1069072715595804
72. Hou ZJ, Leung SA, Li X, Li X, Xu H. Career adapt-abilities scale—China form: construction and initial validation. *J Vocat Behav.* 2012;80(3):686–691. doi:10.1016/j.jvb.2012.01.006
73. Diener ED, Emmons RA, Larsen RJ, Griffin S. The satisfaction with life scale. *J Pers Assess.* 1985;49(1):71–75. doi:10.1207/s15327752jpa4901_13
74. Aguirre-Urreta MI, Hu J. Detecting common method bias: performance of the Harman's single-factor test. *ACM SIGMIS Database.* 2019;50(2):45–70. doi:10.1145/3330472.3330477
75. Podsakoff PM, MacKenzie SB, Lee JY, Podsakoff NP. Common method biases in behavioral research: a critical review of the literature and recommended remedies. *J Appl Psychol.* 2003;88(5):879. doi:10.1037/0021-9010.88.5.879
76. Sulistiani W, Handoyo S. Career adaptability: the influence of readiness and adaptation success in the education context: a literature review. In: Proceedings of the 3rd ASEAN Conference on Psychology, Counselling, and Humanities (ACPCCH 2017); 2018. doi:10.2991/acpch-17.2018.32.
77. Wen Y, Liu F, Pang L, Chen H. Proactive personality and career adaptability of Chinese female pre-service teachers in primary schools: the role of calling. *Sustainability.* 2022;14(7):4188. doi:10.3390/su14074188
78. Taveira MDC, Moreno MLR. Guidance theory and practice: the status of career exploration. *Br J Guid Coun.* 2003;31(2):189–208. doi:10.1080/0306988031000102360
79. Johnston CS. A systematic review of the career adaptability literature and future outlook. *J Career Assess.* 2018;26(1):3–30. doi:10.1177/1069072716679921

80. Ma Y, Bang D, Wang C, et al. Sociocultural patterning of neural activity during self-reflection. *Soc Cogn Affect Neurosci*. 2014;9(1):73–80. doi:10.1093/scan/nss103
81. Zhu Y, Han S. Cultural differences in the self: from philosophy to psychology and neuroscience. *Soc Personal Psychol Compass*. 2008;2(5):1799–1811. doi:10.1111/j.1751-9004.2008.00133.x
82. Markus HR, Kitayama S. Culture, self, and the reality of the social. *Psychol Inq*. 2003;14:277–283. doi:10.1080/1047840X.2003.9682893

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