

Better Match, Better Career: Comparing the Mediating Effects of Demands-Abilities Fit and Needs-Supplies Fit between Career Exploration and Career Satisfaction

Lu Xin¹, Mengyi Li^{2,*}, Fangcheng Tang¹, Wenxi Wang³, Ying Zhao⁴ and Xiaotong Zheng⁵

¹The College of Economics and Management, Beijing University of Chemical Technology, Beijing, 100029, China

²School of Labor and Human Resources, Renmin University of China, Beijing, 100872, China

³Logistics Management, Beijing Wuzi University, Beijing, 101149, China

⁴Chinese Academy of Labour and Social Security, Beijing, 100029, China

⁵Durham University Business School, Durham University, Durham, DH1 3LB, UK

*Corresponding Author: Mengyi Li. Email: ellenli@ruc.edu.cn

Abstract: In the boundaryless career era, employees tend to focus on their own needs and what they can obtain from jobs to make wise career choices and achieve a high level of career satisfaction. Using a sample of 230 Chinese employees, this study investigated the mediating effect of demands-abilities fit and needs-supplies fit in the relationship between career exploration and career satisfaction and compared the mediating effects of these two types of person-job fit. This study found that: 1) employees could achieve a higher level of career satisfaction by conducting more career exploration behaviors; 2) both demands-abilities fit and needs-supplies fit mediated the relationship between career exploration and career satisfaction; 3) the mediating effect of needs-supplies fit was stronger than that of demands-abilities fit. Theoretical and practical applications were also discussed.

Keywords: Career exploration; person-job fit; demands-abilities fit; needssupplies fit; career satisfaction

1 Introduction

Work provides individuals resources to survive, accesses to relational connections, the experience of control over their lives, and therefore influences psychological health [1]. If individuals and their jobs are compatible, then a fit is achieved and positive outcomes often occur, such as positive work attitudes, job satisfaction, organizational commitment, and employee well-being [2–7]. Person-job fit refers to the consistency or the degree of matching between an individual's characteristics and those of the job [8]. The advent of boundaryless careers and increasingly autonomous of jobs have turned employees' attention to their personal requirements and the job features, such as the salary package, job duties, and promotion opportunities. Person-job fit is now considered as a wise career choice, leading to a high level of career satisfaction [3,9].

In career worlds, explorational behaviors may enhance the alignment between employees' vocational identities and their jobs [10]. Previous research has found the positive linkage between career exploration and person-job fit. As "purposive behavior and cognitions that afford access to information about occupations, jobs, organizations that was not previously in the stimulus field" (p. 192) [11], career exploration people's attitudes, behaviors, and career outcomes [12–14]. During the process of career exploration, individuals seek information from different sources to get a better understanding of themselves and the environment [15]. In current changing world, career exploration has been viewed as an important prerequisite for career adaptability [16] and career success [17] Theoretically, explorations of personal and



contextual attributes could lead to a fit between the self and the working environment, promoting positive career related attitudes and feelings, such as career satisfaction [18]. However, little has been directed toward the mediating effect of person-job fit in the relationship between career exploration and career satisfaction.

Previous studies indicated that person-job fit should take two aspects into consideration: demandsabilities (D-A) fit and needs-supplies (N-S) fit [20–22]. Demands-abilities fit refers to the correspondence between a worker's skills and the requirements from the job, while needs-supplies fit indicates the congruence between employees' needs and the supplies they receive from their jobs. Both two types of fit may increase employees' career satisfaction. Apart from examining the mediating effect of D-A fit and N-S fit in the relationship between career exploration and career satisfaction simultaneously, we would also compare the significance of these two paths.

This study contributes to the existing literature in the following ways. First, we empirically test Holland's [18] assumption that career exploration would contribute to career satisfaction through the mediating role of person-job fit. In order to get a deeper understanding of person-job fit, we examine the mediating role of N-S fit and D-A fit simultaneously in a multi-mediation model. Therefore, another contribution of the present study is to reveal that which aspect of person-job fit could provide a more explanatory power in promoting career satisfaction by comparing these two mediating mechanisms. This research enriches the literature in person-job fit and offers practical implications for both career educators and consultants.

2 Hypotheses Development

2.1 The Relationship between Career Exploration and Career Satisfaction

As a core construct in the field of career development [11,23], career exploration refers to "purposive behavior and cognitions that afford access to information about occupations, jobs, organizations that was not previously in the stimulus field" (p. 192) [11]. Career exploration is divided into self-exploration and environmental exploration. Individuals will have a profound understanding of their career values, vocational interests, personal attributes and abilities when conducting self-exploration. When exploring the external environment, people will build social ties to acquire career opportunities and deal with challenges [24].

In this process, individuals will foster affective reaction towards the information obtained by career exploration [11,12]. Therefore, they will have a more positive feeling towards their careers by acquiring more information through career exploration. Thus, more career exploration people conduct, more career satisfaction they will acquire. The relationship between career exploration and career satisfaction received relatively less attention. Whereas empirical studies provided evidences for the relationship between career exploration and job satisfaction. For example, Werbel [25] found that when graduating college students conducted more career exploration, they also engaged in job searching more frequently and industriously, and this would further promote job satisfaction in the early career stage.

Based on these ideas, we proposed the following hypothesis:

H1: Career exploration has a positive relationship with career satisfaction.

2.2 The Mediating Role of Person-Job Fit

Person-job fit refers to individuals' congruence with job requirements and the retributions to perform it [26–28]. Person-job fit is usually divided into two distinct types, namely, demands-abilities fit and needs-supplies fit [29]. Demands-abilities fit refers to the matching degree between job demands and individuals' abilities, knowledge and skills. Needs-supplies fit refers to the degree of which the job satisfies the needs and preferences of employees [20,30].

Both career self-exploration and career environmental exploration have been found to cultivate individuals' awareness of person-job fit [10]. Career exploration deepens individuals' understanding of themselves and the world-of-work and enhances their career decision-making self-efficacy [31–34], enabling the alignment between employees and their jobs. As two forms of complementary fit [35,36],

demands-abilities fit and needs-supplies fit represent what individuals and environment provide and require from each other [27,28,37]. As a result, the mediating effects of these two types of fit differ from each other.

During career environmental exploration, individuals seek for information from different sources to get a better understanding of the requirements and demands of various jobs vacancies [31]. Meanwhile, career self-exploration helps individuals gain more knowledge and resources to develop their working skills and abilities, further increasing their employability [38–40]. Therefore, for the individuals in job searching process, career exploration behaviors assist them to find qualified jobs, indicating a high level of D-A fit. On the other hand, for those who already have jobs, career exploration activates help them reevaluate their capabilities and the job requirements. If they feel a lack of competencies to do the job, they will give up the job and chase for other job opportunities which fit them better. On the contrary, if employees feel that their abilities are sufficient to do the job, they will perceive more person-job fit after taking this job. Therefore, employees will perceive a high level of D-A fit after career exploration.

Also, career environmental exploration enables people to gain more occupational information to make themselves better adapt to the challenging labor market and find a career which fits with their needs [41,42]. Career self-exploration helps individuals to construct and reconstruct a sense of self, clarity what they want from their jobs, and develop career identity [12,42]. With more accurate understanding of themselves, people are more capable to choose the jobs that meet their needs. Moreover, gathering more occupational information, individuals could abandon the jobs which cannot satisfy their needs and seek for other job opportunities. In the end they will accept jobs which can provide them what they want, improving N-S fit.

Previous studies have found the significant effect of person-job fit on individuals' attitude towards work [3,43] as career exploration could align employees' career identities and their career contexts [10,44]. The effects of D-A fit and N-S fit on career satisfaction may also exert in different ways. If individuals perceive a high level of demands-abilities fit, they will have more self-efficacy in doing the job [45], which could further improve career satisfaction [46].

In the aspect of needs-supplies fit, demands-satisfaction theory holds the view that employees will have positive work attitudes when their needs are satisfied [47,48]. This is in line with person-job fit theory, which considers that shared values between organizations and individuals could bring about favorable outcomes such as positive attitude towards one's job or career [49,50]. As a result, a high level of needs-supplies fit could also improve employees' career satisfaction.

Therefore, we put forward the following hypothesis:

H2: Demands-abilities fit mediates the relationship between career exploration and career satisfaction. H3: Needs-supplies fit mediates the relationship between career exploration and career satisfaction.

3 Method

3.1 Data and Sample

Participants in this study were all employees in enterprises. They chose to take part in the survey voluntarily and could quit the survey freely. Data was collected at one time point. We delivered a total of 500 questionnaires and received 230 valid responses (17.80% male). The effective rate of this study was 46.00%. The average age was 21.91 (SD = 0.89).

3.2 Measures

3.2.1 Career Exploration

Career exploration was measured by the self-exploration subscale and the environmental exploration subscale in career exploration scale (CES) [11]. The Chinese version of these subscales were validated in previous studies [51]. Participants rated the extent to which they have behaved in the following ways over the last 3 months. The self-exploration subscale had 5 items and a sample item was: "Been retrospective in thinking about my career". The environmental exploration subscale had 6 items and a sample item was:

"Went to various career orientation programs". Participants rated on a 5-point Likert scale from l = little to 5 = a great deal. The Cronbach's alpha was 0.92.

3.2.2 Person-Job Fit

We used items created by Cable et al. [20] to measure two types of person-job fit: demands-abilities fit and needs-supplies fit. Three items measuring demands-abilities fit were "There is a good fit between what my job offers me and what I am looking for in a job," "The attributes that I look for in a job are fulfilled very well by my present job," and "The job that I currently hold gives me just about everything that I want from a job." Three items measuring needs-supplies fit were "The match is very good between the demands of my job and my personal skills," "My abilities and training are a good fit with the requirements of my job," and "My personal abilities and education provide a good match with the demands that my job places on me." These two measurements had good reliability and validity [20,30]. The Cronbach's alpha of demands-abilities fit and needs-supplies fit was 0.89 and 0.79 respectively. The Cronbach's alpha of all items was 0.86.

3.2.3 Career Satisfaction

Career satisfaction was measured with a widely-used scale by Greenhaus et al. [52]. The Chinese version of this scale was tested and validated using Chinese samples [53,54]. Participants responded to 5 items on a 7-point Likert scale ranging from 1 = strongly disagree to 5 = strongly agree. A sample item of this scale was "I am satisfied with the progress I have made towards meeting my goals for income." The Cronbach's alpha for this scale was 0.92.

3.2.4 Control Variables

According to previous studies [55], gender had a significant relationship with career satisfaction. Besides, in Chan et al. [54], the effect of age was controlled in data analysis. As a result, this study also controlled for the effect of gender and age.

4 Results

4.1 Test of Common Method Bias

This study collected data at one time point, so it was possible that common method bias could be a problem. As a result, we adopted Harman's single-factor test to examine common method bias [56]. The result of Harman's single-factor test showed that after loading all the items into one factor, the first factor accounted for 39.10% (< 40%) of total variance, indicating that there was no single factor could explain the majority of the total variance. In this case, common method bias should not be a problem in this study.

4.2 Description Statistics and Correlations

Tab. 1 showed the description statistics and correlations among variables in this study. In Tab. 1, career exploration had a significant positive relationship with career satisfaction (r = 0.40, p < 0.001), supporting Hypothesis 1. Besides, main variables in this study were all positively related to each other.

	Variables	Mean	SD	1	2	3	4	5
1	CE	3.15	0.87					
2	D-A Fit	3.64	0.87	0.32***				
3	N-S Fit	3.67	0.89	0.40***	0.72***			
4	CS	4.74	1.27	0.40^{***}	0.54***	0.58^{***}		
5	Gender	_	_	-0.10	0.08	0.08	0.03	
6	Age	21.91	0.89	-0.02	0.09	0.05	0.04	0.07

Table 1: Descriptive statistics and correlations (N = 230)

Notes. *** p < 0.001. CE = career exploration. D-A Fit = demands-abilities fit. N-S Fit = needs-supplies fit. CS = career satisfaction.

4.3 Confirmatory Factor Analysis

The result of KMO test (KMO value = 0.92) and Bartlett's test of sphericity (p < 0.001) indicated that the dataset was suitable for factor analysis. We conducted confirmatory factor analysis (CFA) to ensure the distinctiveness of the variables in this study using Mplus 7.4. Indices used to show the results of CFA included χ^2 , df, χ^2 /df, CFI (comparative fit index), TLI (Tucker-Lewis index), SRMR (standardized rootmean-square residual), and RMSEA (root mean square error of approximation) [57,58]

Tab. 2 depicted CFA results. In Tab. 2, four-factor model fit with the data best, with $\chi^2 = 333.26$, df = 224, $\chi^2/df = 1.49$, CFI = 0.95, TLI = 0.95, SRMR = 0.05, RMSEA = 0.05. Therefore, the variables in this study had a good discriminant validity.

Models	χ^2	df	χ^2/df	CFI	TLI	SRMR	RMSEA
Four-factor model	333.26	224	1.49	0.95	0.95	0.05	0.05
Three-factor model	568.05	227	2.50	0.85	0.84	0.11	0.08
Two-factor model	652.35	229	2.85	0.82	0.80	0.12	0.09
One-factor model	1240.20	230	5.39	0.56	0.52	0.14	0.14

Table 2: Results of CFA (N = 230)

Notes. Four-factor model = career exploration, demands-abilities fit, needs-supplies fit, career satisfaction. Three-factor model = career exploration + demands-abilities fit, needs-supplies fit, career satisfaction. Twofactor model = career exploration + demands-abilities fit, needs-supplies fit + career satisfaction. One-factor model = career exploration + demands-abilities fit + needs-supplies fit + career satisfaction.

4.4 Test of Hypotheses

We conducted hypotheses testing employing Model 4 of Process 3.4 and bootstrapping method [59]. We set the bootstrap sample size as 5000 and standardized all variables before data analysis.

Tab. 3 demonstrated the results of total effect. In total effect, career exploration was positively related to career satisfaction ($\beta = 0.40, p < 0.001$) and the 95% CI was [0.28, 0.52]. This result supported Hypothesis 1.

Variables and Statistics –	Outcome: Career Satisfaction					
variables and Statistics –	β	SE	t			
Career Exploration	0.40	0.06	6.63***			
Gender	0.06	0.06	1.04			
Age	0.04 0.06		0.69			
\mathbb{R}^2		0.16				
F		14.83				
$n t \rho s^{***} n < 0.001$						

Table 3: Results of total effect (N = 230)

Notes. p < 0.001.

Tabs. 4 and 5 showed the results of indirect effects and the research model. According to Stages 1 and 2 in Tab. 4, career exploration had a positive relationship with both demands-abilities fit ($\beta = 0.33$, p < 0.33) 0.001) and needs-supplies fit ($\beta = 0.40, p < 0.001$). In Stage 3, when demands-abilities fit and needs-supplies fit were added into the equation, career exploration was still significantly related to career satisfaction ($\beta =$ 0.19, p < 0.01). And both demands-abilities fit and needs-supplies fit were positively related to career satisfaction ($\beta = 0.23$, p < 0.01; $\beta = 0.34$, p < 0.001, respectively). In Tab. 5, both indirect effects of two types of person-job fit were significant as 95% CI did not include zero. Therefore, Hypothesis 2 and 3 were both supported. And it was evident that the effect of needs-supplies fit was significantly stronger than that of demands-abilities fit.

¥7 ° 11	Stage 1			Stage 2	2.		Stage 3		
Variables and Statistics	Outcome: D-A Fit			Outcome: N-S Fit			Outcome: CS		
and Statistics	β	SE	t	β	SE	t	β	SE	t
CE	0.33	0.06	5.35***	0.40	0.06	6.75***	0.19	0.06	3.29**
D-A Fit							0.23	0.07	3.11**
N-S Fit							0.34	0.08	4.37***
Gender	0.10	0.06	1.62	0.11	0.06	1.86	0.00	0.05	0.04
Age	0.09	0.06	1.42	0.05	0.06	0.83	0.00	0.05	0.09
\mathbb{R}^2	0.12		0.17			0.40			
F	10.64			15.89			29.43		

Table 4: Results of indirect effects (N = 230)

Notes. ** p < 0.01, *** p < 0.001. CE = career exploration. D-A Fit = demands-abilities fit. N-S Fit = needs-supplies fit. CS = career satisfaction.

Table 5: Test of indirect effects (N = 230)

Mediators	Effect	Boot SE	Boot LLCI	Boot ULCI
Demands-Abilities Fit	0.08	0.03	0.02	0.15
Needs-Supplies Fit	0.14	0.04	0.07	0.21

5 Discussion

5.1 Theoretical Implications

Employees in boundaryless career world are more likely to pursue jobs that are meaningful to themselves [60]. A better understanding of themselves and the work context will lead to positive career outcomes. This research aims to examine the mediation effect of person-job fit between career exploration and career satisfaction.

First, the findings reinforce the significance of career exploration in facilitating person-job fit, in line with the findings of Nie et al. [10], who investigated the relationship between career exploration and fit perception. Our results further proved that career exploration increased both D-A fit and N-S fit. On the one hand, career exploration could help individuals clarify their vocational interests and gather more information about the job rewards to reach N-S fit. On the other hand, individuals who engaged in career exploration could build their capabilities and competences to meet the requirements of the target job, increasing D-A fit.

Second, our results provided empirical evidence for the importance of career exploration as fundamental explanations of higher level of career satisfaction. In addition, this study revealed the underlying mechanism between career exploration and career satisfaction by examining the mediation roles of D-A fit and N-S fit simultaneously in a multi-mediation model.

A further purpose of this study was to explore which aspect of person-job fit had a stronger explanatory power. Compared with D-A fit, N-S fit had a stronger mediating effect in the relationship between career exploration and career satisfaction, indicating that the fit between employees' desires and tangible work rewards could generate higher level of career satisfaction than the fit between employees' skills and job requirements. The findings were consistent with earlier studies suggesting that N-S fit was the most important variable to career satisfaction [9]. Our results advanced the current understanding by examining the mediation effect of N-S fit between career exploration and career satisfaction.

5.2 Practical Implications

Translating the findings of this research into implications for practice suggests in the first place is that career satisfaction can be achieved by career exploration. For individuals, proactive exploring behaviors should be encouraged. They should grab every opportunity to gather information of the world-of-work and clarify their vocational interests and values to experience good person-job fit and consequently achieve career satisfaction. Achieving needs-supplies fit by identifying personal requirement and job rewards through career self-exploration and career environmental exploration seems to be a better strategy to improve career satisfaction. For career educators and counselors, they could diagnose the problems in career dissatisfaction and low level of person-job fit by testing employees' career exploration behaviors. They could also design career programs and workshops to provide vocational resources for employees to be engaged in career exploration activities.

5.3 Limitations and Orientations for Future Research

There are still several limitations of this study in spite of the theoretical and practical implications discussed above. First of all, the results showed that both D-A fit and N-S fit had partial mediating effects that influence the relationship between career exploration and career satisfaction, which meant that there could exist other mediators. Future research could delve into this relationship and find out other mediating mechanisms to explain the relationship between career exploration and career satisfaction. Second, this study only payed attention to person-job fit, whereas person-vocation fit and person-organization fit are both important constructs which can affect career success [2,61]. Future research could explore the effect of other kinds of fit. Finally, this study collected data at one time point. Although we ensured that common method bias was not a problem in this study, future research could adopt a more rigorous research design such as a longitudinal design to better avoid common method bias or an experimental design to test the causal links.

6 Conclusion

In the past decades, career exploration has been viewed as a central construct in career development. The aim of current study was to reveal the underlying mechanisms through which career exploration affects career satisfaction. The results showed that both demands-abilities fit and needs-supplies fit mediated the relationship between career exploration and career satisfaction, with needs-supplies fit providing a stronger explanatory power. The results offer directions for advancing the research in career exploration and person-job fit.

Funding Statement: This study is funded by National Natural Science Fund of China (NSFC) under contract No. 71532003. The author who received the grant is FT. The URL to sponsors' websites: <u>http://www.nsfc.gov.cn/english/site_1/index.html.</u>

Conflicts of Interest: The authors declare that they have no conflicts of interest to report regarding the present study.

References

- 1. Blustein, D. L. (2008). The role of work in psychological health and well-being: a conceptual, historical, and public policy perspective. *American Psychologist, 63,* 228–240.
- 2. Bretz, R. D., Jr-Judge, T. A. (1994). Person-organization fit and the theory of work adjustment: implications for satisfaction, tenure, and career success. *Journal of Vocational Behavior*, 44(1), 32–54.
- 3. Tinsley, H. E. (2000). The congruence myth: an analysis of the efficacy of the person-environm model. *Journal* of Vocational Behavior, 56(2), 147–179.

- 4. Brkich, M., Jeffs, D., Carless, S. A. (2002). A global self-report measure of person-job fit. *European Journal of Psychological Assessment, 18(1),* 43–51.
- 5. Verquer, M. L., Beehr, T. A., Wagner, S. H. (2003). A meta-analysis of relations between organization fit and work attitudes. *Journal of Vocational Behavior*, *63(3)*, 473–489.
- 6. Singh, R., Greenhaus, J. H. (2004). The relation between career decision-making strategies and person-job fit: a study of job changers. *Journal of Vocational Behaviors*, 64(1), 198–221.
- 7. Laschinger, H. K. S., Wong, C. A., Greco, P. (2006). The impact of staff nurse empowerment on person job fit and work engagement/burnout. *Nursing Administration Quarterly*, *30(4)*, 358–367.
- 8. Lee, Y. T., Reiche, B. S., Song, D. (2010). How do newcomers fit in? The dynamics between person-environment fit and social capital across cultures. *International Journal Cross Cultural Management*, *10(2)*, 153–174.
- 9. Rehfuss, M. C., Gambrell, C. E., Meyer, D. (2012). Counselors' perceived person-environment fit and career satisfaction. *Career Development Quarterly*, 60(2), 145–151.
- 10. Nie, T., Lian, Z., Huang, H. (2012). Career exploration and fit perception of Chinese new generation employees: moderating by work values. *Nankai Business Review International*, *3(4)*, 354–375.
- 11. Stumpf, S. A., Colarelli, S. M., Hartman, K. (1983). Development of the career exploration survey. *Journal of Vocational Behavior*, 22(2), 191–226.
- 12. Flum, H., Blustein, D. L. (2000). Reinvigorating the study of vocational exploration: a framework for research. *Journal of Vocational Behavior*, *56(3)*, 380–404.
- 13. Xin, L., Li, M., Tang, F., Zhou, W., Zheng, X. (2018). Promoting employees' affective well-being: comparing the impact of career success criteria clarity and career decision-making self-efficacy. *International Journal of Mental Health Promotion*, 20(2), 55–65.
- 14. Zhou, W., Li, M., Xin, L., Zhu, J. (2018). The interactive effect of proactive personality and career exploration on graduating students' well-being in school-to-work transition. *International Journal of Mental Health Promotion*, 20(2), 41–54.
- 15. Blustein, D. L. (1997). A context-rich perspective of career exploration across the life roles. *Career Development Quarterly*, *45(3)*, 260–274.
- 16. Hirschi, A. (2009). Career adaptability development in adolescence: multiple predictors and effect on sense of power and life satisfaction. *Journal of Vocational Behavior*, *74(2)*, 145–155.
- 17. Maggiori, C., Rossier, J., Savickas, M. L. (2017). Career adapt-abilities scale-short form construction and validation. *Journal of Career Assessment*, 25(2), 312–325.
- 18. Holland, J. L. (1997). Making vocational choices: a theory of vocational personalities and work environments. *Odessa, FL: Psychological Assessment Resources.*
- 19. Zhao, Y., Xie, B., Jin, W. (2018). The influence of supervisor's transformational leadership and followers' occupational well-being: a dual pathway model from a conservation of resources theory. *International Journal of Mental Health Promotion*, 20(1), 15–26.
- 20. Cable, D. M., De Rue, D. S. (2002). The convergent and discriminant validity of subjective fit perceptions. *Journal of Applied Psychology*, 87, 875–884.
- 21. Lu, C., Wang, H., Lu, J., Du, D., Bakker, A. B. (2014). Does work engagement increase person-job fit? The role of job crafting and job insecurity. *Journal of Vocational Behavior*, 84(2), 142–152.
- 22. Ardıç, K., Uslu, O., Oymak, Ö., Özsoy, E., Özsoy, T. (2016). Comparing person organization fit and person job fit. *Journal of Economics & Management, 25(3),* 5–13.
- 23. Lent, R. W., Brown, S. D. (2013). Social cognitive model of career self-management: toward a unifying view of adaptive career behavior across the life span. *Journal of Counseling Psychology*, 60(4), 557.
- Jordaan, J. P. (1963). Exploratory behavior: the formation of self and occupational concepts. In Super, D. E. (Ed.). *Career Development: Self-Concept Theory*, pp. 42–78. New York, NY: College Entrance Examination Board.
- 25. Werbel, J. D. (2000). Relationships among career exploration, job search intensity, and job search effectiveness in graduating college students. *Journal of Vocational Behavior*, *57(3)*, 379–394.
- 26. Bretz, R. D. (1993). Recruiter perceptions of applicant fit: implications for individual career preparation and job search behavior. *Journal of Vocational Behavior*, *43*, 310–327.

- Edwards, J. R. (1991). Person-job fit: a conceptual integration, literature review, and methodological critique. In Cooper, C. L., Robertson, I. T. (Eds.). *International Review of Industrial and Organizational Psychology*, vol. 6, pp. 283–357. New York: Wiley.
- 28. Vogel, R. M., Feldman, D. C. (2009). Integrating the levels of person-environment fit: the roles of vocational fit and group fit. *Journal of Vocational Behavior*, 75(1), 68–81.
- 29. Cable, D. M., Judge, T. A. (1996). Person organization fit, job choice decisions, and organizational entry. *Organizational Behaviour and Human Decision Processes*, 67, 294–311.
- 30. Tims, M., Derks, D., Bakker, A. B. (2016). Job crafting and its relationships with person-job fit and meaningfulness: a three-wave study. *Journal of Vocational Behavior*, 92, 44–53.
- 31. Cheung, R., Arnold, J. (2014). The impact of career exploration on career development among Hong Kong Chinese university students. *Journal of College Student Development*, 55(7), 732–748.
- 32. Cheung, R., Jin, Q. (2016). Impact of a career exploration course on career decision making, adaptability, and relational support in Hong Kong. *Journal of Career Assessment, 24(3),* 481–496.
- 33. Lent, R. W., Ezeofor, I., Morrison, M. A., Penn, L. T., Ireland, G. W. (2016). Applying the social cognitive model of career self-management to career exploration and decision-making. *Journal of Vocational Behavior*, *93*, 47–57.
- 34. Lent, R. W., Ireland, G. W., Penn, L. T., Morris, T. R., Sappington, R. (2017). Sources of self-efficacy and outcome expectations for career exploration and decision-making: a test of the social cognitive model of career self-management. *Journal of Vocational Behavior, 99*, 107–117.
- 35. Kristof, A. L. (1996). Person-organization fit: an integrative review of its conceptualizations, measurement, and implications. *Personnel Psychology*, *49*, 1–49.
- 36. Muchinsky, P. M., Monahan, C. J. (1987). What is person-environment congruence? Supplementary vs. complementary models of fit. *Journal of Vocational Behavior*, 31(3), 268–277.
- 37. Dawis, R. V., Lofquist, L. H. (1984). *A psychological theory of work adjustment*. Minnesota, MN: University of Minnesota Press.
- 38. Forstenlechner, I., Selim, H., Baruch, Y., Madi, M. (2014). Career exploration and perceived employability within an emerging economy context. *Human Resource Management*, *53(1)*, 45–66.
- 39. Praskova, A., Creed, P. A., Hood, M. (2015). Career identity and the complex mediating relationships between career preparatory actions and career progress markers. *Journal of Vocational Behavior*, 87, 145–153.
- 40. Guan, Y., Wang, F., Liu, H., Ji, Y., Jia, X. et al. (2015). Career-specific parental behaviors, career exploration and career adaptability: a three-wave investigation among Chinese undergraduates. *Journal of Vocational Behavior*, *86*, 95–103.
- 41. Neureiter, M., Traut-Mattausch, E. (2017). Two sides of the career resources coin: career adaptability resources and the impostor phenomenon. *Journal of Vocational Behavior, 98,* 56–69.
- 42. Savickas, M. L. (2002). Career construction: a developmental theory of vocational behavior. In Brown, D. (Ed.). *Career Choice and Development*, pp. 255–311. (4th ed.). San Francisco, CA: Jossey-Bass.
- 43. Verquer, M. L., Beehr, T. A., Wagner, S. H. (2003). A meta-analysis of relations between person-organization fit and work attitudes. *Journal of Vocational Behavior*, *63(3)*, 473–489.
- 44. Gross-Spector, M., Cinamon, R. G. (2018). Assessing adults' career exploration: development and validation of the vocational and maternal identity exploration scales. *Journal of Career Development*, 45(1), 19–33.
- 45. Peng, Y., Mao, C. (2015). The impact of person-job fit on job satisfaction: the mediator role of selfefficacy. Social Indicators Research, 121(3), 805-813.
- 46. Kim, B., Rhee, E., Ha, G., Yang, J., Lee, S. M. (2016). Tolerance of uncertainty: links to happenstance, career decision self-efficacy, and career satisfaction. *Career Development Quarterly*, 64(2), 140–152.
- 47. Burke, R. J., Weir, T. (1980). The type a experience: occupational and life demands, satisfaction and well-being. *Journal of Human Stress, 6(4),* 28–38.
- 48. Perrewe', P. L. (1986). Locus of control and activity level as moderators in the quantitative job demandssatisfaction/psychological anxiety relationship: an experimental analysis. *Journal of Applied Social Psychology*, *16(7)*, 620–632.

- 49. Farzaneh, J., Farashah, A. D., Kazemi, M. (2014). The impact of person-job fit and person-organization fit on ocb: the mediating and moderating effects of organizational commitment and psychological empowerment. *Personnel Review*, 43(5), 672–691.
- 50. Vilela, B. B., González, J. A. V., Ferrín, P. F. (2008). Person-organization fit, OCB and performance appraisal: evidence from matched supervisor-salesperson data set in a Spanish context. *Industrial Marketing Management*, 37(8), 1005–1019.
- 51. Cai, Z., Guan, Y., Li, H., Shi, W., Guo, K. et al. (2015). Self-esteem and proactive personality as predictors of future work self and career adaptability: an examination of mediating and moderating processes. *Journal of Vocational Behavior*, *86*, 86–94.
- 52. Greenhaus, J. H., Parasuraman, S., Wormley, W. M. (1990). Effects of race on organizational experiences, jobperformance evaluations and career outcomes. *Academy of Management Journal*, 33(1), 64–86.
- 53. Chan, S. H. J., Mai, X. (2015). The relation of career adaptability to satisfaction and turnover intentions. *Journal of Vocational Behavior*, *89*, 130–139.
- 54. Chan, S. H. J., Mai, X., Kuok, O. M. K., Kong, S. H. (2016). The influence of satisfaction and promotability on the relation between career adaptability and turnover intentions. *Journal of Vocational Behavior*, *92*, 167–175.
- 55. Martínez-León, I. M., Olmedo-Cifuentes, I., Ramón-Llorens, M. C. (2018). Work, personal and cultural factors in engineers' management of their career satisfaction. *Journal of Engineering and Technology Management*, 47, 22–36.
- 56. Podsakoff, P. M., Organ, D. W. (1986). Self-reports in organizational research: problems and prospects. *Journal of Management*, 12(4), 531–544.
- 57. Byrne, B. M. (2013). *Structural equation modeling with Mplus: basic concepts, applications, and programming.* Routledge.
- 58. Hu, L. T., Bentler, P. M. (1999). Cutoff criteria for fit indexes in covariance structure analysis: conventional criteria vs. new alternatives. *Structural Equation Modeling*, 6(1), 1–55.
- 59. Preacher, K. J., Hayes, A. F. (2008). Asymptotic and resampling strategies for assessing and comparing indirect effects in multiple mediator models. *Behavior Research Methods*, 40(3), 879–891.
- 60. Arthur, M. B., Rousseau, D. M. (1996). The boundaryless career. New York: Oxford University Press.
- 61. Xiao, W., Zhou, L., Wu, Q., Zhang, Y., Miao, D. et al. (2014). Effects of person-vocation fit and core selfevaluation on career commitment of medical university students: the mediator roles of anxiety and career satisfaction. *International Journal of Mental Health Systems*, 8(1), 8.