

Abstract

Creating highly efficient university outputs requires innovative behavior on the part of those output makers. The process of developing innovative behavior in organizations is largely related to the personal traits and competencies of employees. In this paper, we seek to investigate the effect of proactive personalities along with creative self-efficacy in the emergence of innovative behavior in the workplace. The current study attempts to explore the importance of the personal aspect of the teachers at the Southern Technical University in building knowledge and human capital and investing it in the educational service industry processes. A random sample of 256 teachers in multiple and diverse specializations was targeted. The results obtained indicate that there is a large role for the proactive personality to predict innovative behavior in the workplace. Creative self-efficacy also serves as the fuel that pushes the proactive personality-creative behavior related to a more explanatory place. The results were discussed and a number of recommendations were proposed that serve as a guiding guide for senior administrations in educational institutions on how to invest knowledge capital in aspects of performance and organizational effectiveness.

Key Words: Proactive Personality; Innovative Behavior; Creative Self-Efficacy; Southern Technical University Teachers

لمستخلص

يتطلب إنشاء مخرجات جامعية عالية الكفاءة سلوكًا مبتكرًا من قبل صانعي هذه المخرجات. اذ ترتبط عملية تطوير السلوك المبتكر في المنظمات إلى حد كبير بالسمات والكفاءات الشخصية للموظفين. في هذه الورقة ، نسعى للتحقيق في تأثير الشخصيات الاستباقية إلى جانب الكفاءة الذاتية الإبداعية في ظهور السلوك الابتكاري في مكان العمل. تحاول الدراسة الحالية استكشاف أهمية

مجلة كلبة التراث الجامعة

العدد الرابع و الثلاثون



الجانب الشخصي للاكاديميين في الجامعة التقنية الجنوبية في بناء المعرفة ورأس المال البشري واستثماره في عمليات صناعة الخدمات التعليمية. تم اختيار عينة عشوائية مكونة ٢٥٦ اكاديمي في تخصصات متعددة ومتنوعة. تشير النتائج التي تم الحصول عليها إلى أن هناك دورًا كبيرًا المشخصية الاستباقية للتنبؤ بالسلوك الابتكاري في مكان العمل. تعمل الكفاءة الذاتية الإبداعية أيضًا بمثابة الوقود الذي يدفع السلوك الاستباقي والإبداعي للشخصية المرتبط بمكان العمل. وقد تمت مناقشة النتائج واقتراح عدد من التوصيات لتكون بمثابة دليل إرشادي للإدارات العليا في المؤسسات التعليمية حول كيفية استثمار رأس المال المعرفي في جوانب الأداء والفعالية التنظيمية.

Introduction

With the pressures that the covid-19 places on individuals and in the fields of life, it has become vital for people to have proactive characteristics in order to search for solutions to the problems they are facing due to the epidemic as well as to accomplish organizational goals (Yi-Fang chen et al., 2021; Abdullah et al., 2021). Everything today is linked to speed of learning, the rush to opportunities, the generation and development of ideas as they play a key role in organizational change. According to previous studies, the academia has a higher level of innovation because its members have proactive personalities that encourage hard work and seizing opportunities (Seibert et al., 2001; Heslin & Klehe, 2006). But how can academic institutions support their innovation processes? Research has found that people with proactive personalities are motivated to come up with new ideas, which is the essence of innovation (Fuller et al., 2006), They also leave a positive impression by sharing their experiences and skills in the workplace to influence others to create innovative solutions (Horng et al., 2016; Alnoor et al., 2021). In addition to implementing new technologies, they can also develop their own techniques to match work methods and investigate and secure resources to implement ideas (Yuau & Woodman, 2010).

The rapid changes and high uncertainty in the environment make it necessary for organizations to gain competitive advantage and to be able to innovate. From that perspective, it is expected that organizational growth, competitiveness and sustainability will be based on organizational characteristics and their employees' and managers' innovative behavior (Tastan, 2013; Al-Abrrow et al., 2021). In other words, self-efficacy refers to a competitive resource that can be relied upon in order to continue working and reach an innovative outcome (Bandura, 1997).

Furthermore, it is significant to study proactive personality and how it contributes to academic outcomes, along with self-efficacy as a mediator variable, Moreover, it is important to study causal relationships using a large sample that includes colleges and institutes at Southern Technical University. The purpose of the study was to examine how academic self-efficacy impacts the relationship between proactive personality and innovative behavior by using the questionnaire as a tool to analyze responses. The results of the study will be discussed in will be discussed later.

Theory and hypotheses

In the following discussion, we will discuss (proactive personality) the independent variable, as well as (Creative self-efficacy), which is the mediating variable, and the dependent variable (innovative behavior).



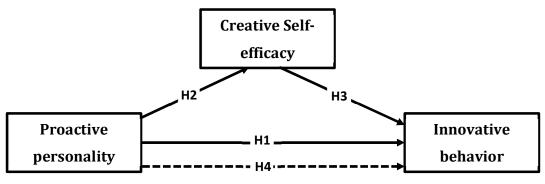


Figure 1. Study model

Proactive personality

In this concept, proactive people are characterized by their constant desire to change their work environment as well as their organizational conditions to suit the competitive environment (Hundy,1989). Proactive people usually take actions that are desirable, including active learning, displaying supportive behavior and committing to their organizations as well as providing helpful solutions (Maan et al., 2020). In addition to participating in organizational behavior with additional responsibilities, such as creating a constructive work environment and identifying new ideas (Cullen et al., 2014). A proactive person identifies opportunities and takes action to take advantage of them, showing initiative to do something worthwhile (grant, 2000). In this way, proactive personalities are more effective at helping others achieve their goals when they are exposed to new or challenging situations (Hu et al., 2020).

Among the five personality traits, the proactive personality is similar to some in its emphasis on gaining experiences (extroversion), achieving goals (conscience), and exploring what is unfamiliar (openness). However, it appears conceptually different due to the proactive personality's tendency to exert control to achieve results (Alikaj et al., 2020). People who are proactive tend to take the initiative to fix the obstacles that hinder their work (Loi et al., 2016). In other words, these people invest the majority of their energies into how they can make individual and organizational goals a reality by exhibiting behaviors that seek to improve things (Compell, 2000).

Proactive personality and Innovative behavior

The concept of innovative behavior refers to the creation, promotion, and realization of new ideas within the workplace or work groups in order to maximize performance (Yuan & Woodman, 2010). It is a multi-stage process in which individuals identify a problem that generates ideas for them or solutions and work to strengthen and build support for it, and to produce a prototype that is applicable within the organization (Carmeli et al., 2006), Afterward, the ideas are promoted more widely and supportive activities are undertaken to provide the strength to make the idea a reality



(Cinyoz & Akdogan, 2011). During the final stage of innovation, the individual must demonstrate innovative behavior by producing a final model that is then analyzed and used in the workplace (Kanter,1988), and innovative thinking can be initiated By pursuing behaviors that help identify opportunities, find gaps in performance, and seek appropriate solutions (Tastall,2013). Thus, proactive personality behaviors influence innovative behavior at work (Kong & Li,2018). The proactive individual contributes to the identification and shaping of work contexts that foster organizational innovation and support change (Amabile, 1998). There are also associations between people who are proactive and feel responsible for change, implementing new ideas, and solving problems (Fuller et al.,2006).

People who are proactive find new ways to complete their work through their drive and efficiency at work (Choi & Thomson, 2005). Proactive people are also good at providing support for new ideas and publicizing them (Schwaad et al., 2007). Proactive personalities also act as catalysts in initiating change and driving innovative behavior that strengthens the operations of their organizations (Giebels et al., 2016). Based on what was mentioned, the first hypothesis can be formulated:

H1: Proactive personality is positively affecting Innovative behavior.

Mediator Role of Creative self-efficacy

The term self-efficacy refers to the ability of an individual to create value-added outcomes (Gong et al., 2009; Tierney & Farmer, 2002). It's how people follow through on their assigned tasks and continue to work (Bandura, 1997). An individual's self-efficacy is one of the most important motivational factors that determine how well they will do in almost any endeavor, The development of self-efficacy is also important for improving performance (Heslin & Klene, 2006). An individual's self-efficacy refers to his or her capacity to produce significant effects. People who are aware they can make a difference feel empowered and take action, while people who feel helpless feel unhappy and are not motivated (Flammer, 2001). Researchers have shown that proactive personality results in proactive behavior and influences self-efficacy, which benefits both employees and companies (Lin et al., 2014). Proactive people have a high degree of selfefficacy, which boosts their engagement behavior and enhances their job satisfaction (Li et al., 2017). where An individual with proactive behavior has a greater motivation to learn new things, has a higher level of ability to learn, is confident in their ability to act, and adheres to virtues of self-confidence (Naz et al., 2020). Individuals with proactive personalities tend to seek out educational and work environments that complement them and strengthen them. Also, these individuals tend to shape their environments in ways that are more suitable for them (Brown & Hirschi, 2013). This means that proactive people have a high level of self-efficacy in changing and developing work (Li et al., 2016).

A self-efficacy is an individual's belief that she or he is capable of achieving creative results (Tierney & Farmer, 2004). It is expected that high levels of CSE should be associated with higher levels of innovative behavior, due to two main reasons. First, individuals with high levels of CSE will feel confident in their skills and knowledge to generate ideas and implement them at work (Jiang & Gu, 2017). Second, those with high CSE scores are better positioned to handle challenges and uncertainties encountered when applying new ideas in the workplace (Richter et al.,2012). According to self-efficacy, employees believe they can convince others to accept and adopt their

مجلة كلية التراث الجامعة

العدد الرابع و الثلاثون



(or others') new ideas (Ng & Lucianetti, 2016). In addition Academics with a high sense of self-efficacy tend to be effective in create a new ideas, also when have a strong sense of self-efficacy, students benefit from information who give it to be innovative (Hsiao et al., 2011). The managers can improve workplace innovation by developing a personality that supports self-efficacy and distributes leadership responsibilities (Jønsson et al., 2021).

A proactive personality can enhance creativity by developing self-efficacy to come up with new ideas and make changes at work (Fuller et al., 2006), having such a personality allows the proactive individual to continue developing services and improving organizational results in an innovative way (Seibert et al., 2001). Additionally, self-efficacy plays a positive and supportive role in the relationship between proactive personality and innovative behavior (Choi et al., 2021). People with higher self-efficacy and proactive personality characteristics are more likely to come up with and adopt new ideas (Tierney & Farmer, 2002; Gong et al., 2009; Fuller et al., 2006). Based on what was mentioned, the first hypothesis can be formulated:

H2: Proactive personality is positively affecting Creative self-efficacy.

H3: Creative self-efficacy is positively affecting Innovative behavior.

H4: The relationship between Proactive personality and Innovative behavior is mediated by Creative self-efficacy.

Problem statement

This study examined the relationship between proactive personality and creative behavior, where the purpose was to determine the extent to which proactive personality can contribute to improving creative behavior. By using creative self-efficacy as a mediating variable, since the university has many experiences, the research sample needs to understand how their experience and personalities influence behavior of others. The study's problem is therefore to determine whether proactive personalities influence creative behavior? What role does creative self-efficacy play in this?

Method

The educational sector was targeted as a population in this study; specifically the academics working at the Southern Technical University with their various specializations were targeted as the target population. There were 750 academics at Southern Technical University, according to Saunders et al. (2019) minimum acceptable number of the target population is 254. Accordingly, 300 questionnaires were distributed, of which 265 were retrieved, and 256 were valid for analysis. Furthermore, the response rate for this study was 85%. The questionnaire was translated and distributed to the respondents for their understanding (the intended research sample). The final sample included 190 males and 66 females. Also, 106 of them had a Ph.D. and 150 had a master's degree in the field of specialization. Of them, 88 were from administrative and accounting specialties. 105 from engineering specialties, and 63 from medical specialties.

The issue of bias is normal in HR studies, particularly with regard to surveys geared toward self-reports. As an answer to the problem, some safeguards were implemented, such as ensuring the confidentiality of information for respondents, and formulation of (reverse translation) scale items (Podsakoff et al., 2003). To measure proactive personality, the 10-item Seibert et al. (1999) scale was used e.g., I am constantly on the lookout for new ways to improve my life, with a reliability of 0.88. Moreover, the innovative behavior at work was measured by six items e.g., I am developing adequate plans and schedules for the implementation of new ideas; this scale was



developed by Scott & Bruce (1994), which obtained a good reliability coefficient of 0.89. Finally, Tierney and Farmer (2002) CSES Scale was used to measure creative self-efficacy, which consisted of three items e.g., I feel that I am good at generating novel ideas, with a reliability coefficient of 0.83. 5-point Likert quintuple scale was relied on, which is graded according to the following answers (not completely agree "1", disagree "2", agree to some extent "3", agree "4", completely agree "5").

Results

This study relied on several measures previously used in the previous literature, which are characterized by reliability and validity. Therefore, the loading factor, Cronbach's alpha (α) , average variance extracted (AVE), and composite reliability (CR) were adopted for the convergent validity test. The AVE value must be greater than 0.5, while the Cronbach's alpha and consistency reliability (CR) must be greater than 0.7. In addition, the loading factor should be more than 0.5 (Hair et al., 2010). Table 1 shows that all criteria were met, indicating model reliability, with AVE greater than 0.5 and α & CR greater than 0.7, while all loading factors were greater than 0.7.

Table 1. Assessment of the measurement model

Construct	Items	Loadings	AVE	CR	Cronbach's α		
Proactive personality	pp1	0.838					
	pp2	0.715	0.563	0.879			
	pp3	0.716					
	pp4	0.801					
	pp5	0.707			0.893		
	pp6	0.673					
	pp7	0.731					
	pp8	0.801					
	pp9	0.782					
	pp10	0.720					
Innovative behavior	ib1	0.731	0.600	0.844			
	ib2	0.801					
	ib3	0.782			0.007		
	ib4	0.734			0.886		
	ib5	0.828					
	ib6	0.768					
Creative self-	cse1	0.801	0.597		0.788		
	cse2	0.782		0.727			
efficacy	cse3	0.734					

Table 2 presents the descriptive statistics and the correlation between the variables. The results indicated that the mean of the variables was at an average level for the three variables, which ranged between (2.25-3.33), and this indicates that creativity and innovation in the workplace in the academic sector need to be reviewed and studied. The table also showed that the standard



deviation of the variables was slight discrepancies between the respondents' opinions. Finally, the results indicate that there are positive correlations between the three variables at the level of significance (0.05), and this supports the hypotheses of current study.

Table 2. Descriptive statistics and correlations

Variables	Mean	SD	1	2	3
1 Proactive personality	3.33	0.911	1		
2 Innovative behavior	3.25	0.885	0.421^{**}	1	
3 Creative self-efficacy	3.34	0.813	0.533^{**}	0.352^{**}	1

In addition, the results suggest that the data is valid for conducting other statistical analyzes, especially testing the study hypotheses because the correlation was less than 0.9.

For the purpose of testing the hypotheses of the current study model, Path Analysis was carried out in the Amos program. Accept or reject the hypothesis on the basis of the C.R and P values, as the critical value must exceed ± 1.96 , while the P value must be less than 0.05, to accept the hypothesis. Table 4 shows the results of hypothesis testing.

Table 3. Testing hypotheses

Tuble of Testing my someses								
Path	Estimate (S.E)	C.R	P	Label				
Proactive personality → Innovative behavior	0.242 (0.042)	5.506	***	Supported				
Proactive personality \rightarrow Creative self-efficacy	0.299 (0.035)	8.374	***	Supported				
Creative self-efficacy → Innovative behavior	0.318 (0.029)	10.102	***	Supported				
Proactive personality → Creative self-efficacy → Innovative behavior	0.072 (0.012)	6.381	***	Supported (Partial mediation)				

Through the results shown in the table above, it is clear to us that all hypotheses have been supported. As there was a positive effect of the proactive personality on the innovative behavior. There was also a positive effect of the proactive personality on creative self-efficacy. There is an effect of creative self-efficacy on innovative behavior. Finally, it turns out that there is a partial mediation role (because of the acceptance of the H1) of creative self-efficacy in the positive relationship between proactive personality and innovative behavior. The results confirm that the relationship between proactive personality and innovative behavior will be better explained by the presence of creative self-efficacy.

Discussion

Theoretical and Practical Implications

It is possible to use this study to learn more about proactive personalities and the benefits they provide to organizations. Proactive personality traits play different roles in organizational change based on how work is developed and motivated to do what is best for the organization, By doing



this, management can respond flexibly to work conditions and develop positive change behaviors in a proactive manner (Lamm et al., 2015). This, these traits increase the interest and support provided to those studying the topic of organizational behavior. In addition, self-efficacy is a key component of the organization and academic practices that support the achievement of growth in the academic field, and therefore, it helps those interested in finding ways to change work for the better, having a high self-efficacy in academics provides a comprehensive understanding and enhances knowledge Students and workers in this field (Li et al., 2016; Fuller et al., 2018). This study can also be considered an important contribution to the literature because it discusses how innovative behavior in the workplace can be refined by looking at proactive personality traits in the work environment, and how well organizations can develop ideas that support development and competition. This study is a great contribution to the academic literature since it sheds light on how innovation in the academic field can be improved. As a result, we find that individuals with a proactive personality are more likely to achieve intercultural adaptability and also develop than those with a low level of this trait. Academics therefore need to employ these traits in order to successfully achieve innovation.

Limitations and future research directions

There are also limitations to the study, which may provide opportunities for future research. First, there is the possibility of bias in the sample due to loyalty to the workplace among academics; a second limitation is that the study sample is mainly composed of highly knowledgeable academics, so it is likely to be restricted to a limited set of demographic characteristics. As a third point, this study examined the proactive personality alone rather than comparing it to any other type of personality. Thus, future research could include other types of personality. Finally, the role of gender difference between males and females has not been addressed in this research with respect to the characteristics of males and females, which can be addressed in future research. Future research also can draw from a larger sample from a number of universities to produce more generalized results.

Conclusion

This study contributes to the growing body of literature on personality traits, specifically the proactive personality, by connecting it to innovative behavior in universities and highlighting its positive effects on workflow. Also, a study found that self-efficacy also mitigated academics' negative effects and enabled them to innovate and rely on their own abilities, since self-efficacy helps boost the morale of academics and gives them confidence to implement change and generate new ideas that work towards developing universities and raising the level of academic education.

References

Abdullah, H., Ismail, I., Alnoor, A., & Yaqoub, E. (2021). Effect of perceived support on employee's voice behaviour through the work engagement: a moderator role of locus of control. *International Journal of Process Management and Benchmarking*, 11(1), 60-79.

Al-Abrrow, H., Fayez, A. S., Abdullah, H., Khaw, K. W., Alnoor, A., & Rexhepi, G. (2021). Effect of open-mindedness and humble behavior on innovation: mediator role of learning. *International Journal of Emerging Markets*. https://doi.org/10.1108/IJOEM-08-2020-0888



- Alikaj, A., Ning, W., & Wu, B. (2020). Proactive personality and creative behavior: examining the role of thriving at work and high-involvement HR practices. *Journal of Business and Psychology*, 1-13.
- Alnoor, A., Abdullah, H. O., AL-Abrrow, H., Wah Khaw, K., Al-Awidi, I. A., Abbas, S., & Omrane, A. (2021). A Fuzzy Delphi analytic job demands-resources model to rank factors influencing open innovation. *Transnational Corporations Review*, 1-15.
- Amabile, T. M. (1998). *How to kill creativity* (Vol. 87). Boston, MA: Harvard Business School Publishing.
- Armenakis, A. A., Harris, S. G., & Mossholder, K. W. (1993). Creating readiness for organizational change. *Human relations*, 46(6), 681-703.
- Bandura, A. (1997), Self-Efficacy: The Exercise of Control, Freeman, New York, NY
- Bandura, A. (2001). Social cognitive theory: An agentic perspective. *Annual review of psychology*, 52(1), 1-26.
- Bateman, T. S., & Crant, J. M. (1993). The proactive component of organizational behavior: A measure and correlates. *Journal of organizational behavior*, *14*(2), 103-118.
- Brown, D. J., Cober, R. T., Kane, K., Levy, P. E., & Shalhoop, J. (2006). Proactive personality and the successful job search: A field investigation with college graduates. *Journal of applied psychology*, *91*(3), 717.
- Brown, S. D., & Hirschi, A. (2013). Personality, career development, and occupational attainment. *Career development and counseling: Putting theory and research to work*, 299-328.
- Campbell, D. J. (2000). The proactive employee: Managing workplace initiative. *Academy of Management Perspectives*, 14(3), 52-66.
- Carmeli, A., Meitar, R., & Weisberg, J. (2006). Self-leadership skills and innovative behavior at work. *International journal of manpower*, 27(1), 75-90.
- Choi, S. B., Ullah, S. M., & Kang, S. W. (2021). Proactive Personality and Creative Performance: Mediating Roles of Creative Self-Efficacy and Moderated Mediation Role of Psychological Safety. *Sustainability*, *13*(22), 12517.
- Cingöz, A., & Akdoğan, A. A. (2011). An empirical examination of performance and image outcome expectation as determinants of innovative behavior in the workplace. *Procedia-Social and Behavioral Sciences*, 24, 847-853.
- Crant, J. M. (1996). The proactive personality scale as a predictor of entrepreneurial intentions. *Management*, 29(3), 62-74.
- Crant, J. M. (2000). Proactive behavior in organizations. *Journal of management*, 26(3), 435-462.
- Cullen, K. L., Edwards, B. D., Casper, W. C., & Gue, K. R. (2014). Employees' adaptability and perceptions of change-related uncertainty: Implications for perceived organizational support, job satisfaction, and performance. *Journal of Business and Psychology*, 29(2), 269-280.
- Flammer, A. (2001). Self-efficacy.
- Fuller, B., Liu, Y., Bajaba, S., Marler, L. E., & Pratt, J. (2018). Examining how the personality, self-efficacy, and anticipatory cognitions of potential entrepreneurs shape their entrepreneurial intentions. *Personality and Individual Differences*, 125, 120-125.
- Fuller, J. B., Marler, L. E., & Hester, K. (2006). Promoting felt responsibility for constructive change and proactive behavior: Exploring aspects of an elaborated model of work design. *Journal of*



- Organizational Behavior: The International Journal of Industrial, Occupational and Organizational Psychology and Behavior, 27(8), 1089-1120.
- Giebels, E., de Reuver, R. S., Rispens, S., & Ufkes, E. G. (2016). The critical roles of task conflict and job autonomy in the relationship between proactive personalities and innovative employee behavior. *The Journal of applied behavioral science*, 52(3), 320-341.
- Gong, Y., Huang, J. C., & Farh, J. L. (2009). Employee learning orientation, transformational leadership, and employee creativity: The mediating role of employee creative self-efficacy. *Academy of management Journal*, 52(4), 765-778.
- Hair, J.F., Black, W.C., Babin, B.J., and Anderson, R.E. (2010). Multivariate Data Analysis. 7th ed. Pearson prentice Hall.
- Handy, C. (2012). The age of unreason. Random House.
- Heslin, P. A., & Klehe, U. C. (2006). Self-efficacy. *Encyclopedia Of Industrial/Organizational Psychology, SG Rogelberg, ed, 2,* 705-708.
- Horng, J. S., Tsai, C. Y., Yang, T. C., & Liu, C. H. (2016). Exploring the relationship between proactive personality, work environment and employee creativity among tourism and hospitality employees. *International Journal of Hospitality Management*, *54*, 25-34.
- Hsiao, H. C., Chang, J. C., Tu, Y. L., & Chen, S. C. (2011). The impact of self-efficacy on innovative work behavior for teachers. *International Journal of Social Science and Humanity*, *1*(1), 31.
- Hu, S., Liu, H., Zhang, S., & Wang, G. (2020). Proactive personality and cross-cultural adjustment: Roles of social media usage and cultural intelligence. *International Journal of Intercultural Relations*, 74, 42-57.
- Janssen, O., van de Vliert, E. & West, M. (2004). The bright and dark sides of individual and group innovation: a special issue introduction. Journal of Organizational Behavior, 25(2), 129-145.
- Jiang, W., & Gu, Q. (2017). Leader creativity expectations motivate employee creativity: A moderated mediation examination. *The International Journal of Human Resource Management*, 28(5), 724-749.
- Jønsson, T. F., Bahat, E., & Barattucci, M. (2021). How are empowering leadership, self-efficacy and innovative behavior related to nurses' agency in distributed leadership in Denmark, Italy and Israel?. *Journal of Nursing Management*, 29(6),1517-1524.
- Kanter, R. M. (1988). When a thousand flowers bloom: Structural, collective, and social conditions for innovation in organizations. *Knowledge Management and Organisational Design*, 10(1), 93-131.
- Kong, Y., & Li, M. (2018). Proactive personality and innovative behavior: The mediating roles of job-related affect and work engagement. *Social Behavior and Personality: an international journal*, 46(3), 431-446.
- Lamm, E., Tosti-Kharas, J., & King, C. E. (2015). Empowering employee sustainability: Perceived organizational support toward the environment. *Journal of Business Ethics*, 128(1), 207-220.
- Li, C., Naz, S., Dodor, A., Ashraf, S. F., & Akolgo, I. G. (2018). An investigation of the relationship between proactive personality and entrepreneurial intentions using PLS-SEM among potential entrepreneurs in Pakistan. *WALIA Journal*, *34*(1), 120-131.



- Li, M., Liu, Y., Liu, L., & Wang, Z. (2017). Proactive personality and innovative work behavior: The mediating effects of affective states and creative self-efficacy in teachers. *Current Psychology*, 36(4), 697-706.
- Li, M., Wang, Z., Gao, J., & You, X. (2017). Proactive personality and job satisfaction: The mediating effects of self-efficacy and work engagement in teachers. *Current Psychology*, *36*(1), 48-55
- Li, N., Liang, J., & Crant, J. M. (2010). The role of proactive personality in job satisfaction and organizational citizenship behavior: a relational perspective. *Journal of applied psychology*, 95(2), 395.
- Lin, S. H., Lu, W. C., Chen, M. Y., & Chen, L. H. (2014). Association between proactive personality and academic self–efficacy. *Current Psychology*, *33*(4), 600-609.
- Loi, R., Liu, Y., Lam, L. W., & Xu, A. J. (2016). Buffering emotional job demands: The interplay between proactive personality and team potency. *Journal of Vocational Behavior*, 95, 128-137.
- Maan, A. T., Abid, G., Butt, T. H., Ashfaq, F., & Ahmed, S. (2020). Perceived organizational support and job satisfaction: a moderated mediation model of proactive personality and psychological empowerment. *Future Business Journal*, 6(1), 1-12.
- Major, D. A., Turner, J. E., & Fletcher, T. D. (2006). Linking proactive personality and the Big Five to motivation to learn and development activity. *Journal of applied psychology*, *91*(4), 927.
- Naz, S., Li, C., Zaman, U., & Rafiq, M. (2020). Linking Proactive Personality and Entrepreneurial Intentions: A Serial Mediation Model Involving Broader and Specific Self-Efficacy. *Journal of Open Innovation: Technology, Market, and Complexity*, 6(4), 166.
- Ng, T. W., & Lucianetti, L. (2016). Within-individual increases in innovative behavior and creative, persuasion, and change self-efficacy over time: A social–cognitive theory perspective. *Journal of Applied Psychology*, 101(1), 14.
- Podsakoff, P. M., MacKenzie, S. B., Lee, J. Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research: a critical review of the literature and recommended remedies. *Journal of applied psychology*, 88(5), 879-903.
- Richter, A. W., Hirst, G., Van Knippenberg, D., & Baer, M. (2012). Creative self-efficacy and individual creativity in team contexts: cross-level interactions with team informational resources. *Journal of applied psychology*, 97(6), 1282-1290.
- Saunders, M. N., Lewis, P. and Thornhill, A. (2019). Research methods for business students. 8th ed., Pearson Education Limited.
- Scott, S. G., & Bruce, R. A. (1994). Determinants of innovative behavior: A path model of individual innovation in the workplace. *Academy of management journal*, *37*(3), 580-607.
 - Seibert, S. E., Crant, J. M., & Kraimer, M. L. (1999). Proactive personality and career success. *Journal of applied psychology*, 84(3), 416-427.
 - Seibert, S. E., Kraimer, M. L., & Crant, J. M. (2001). What do proactive people do? A longitudinal model linking proactive personality and career success. *Personnel psychology*, *54*(4), 845-874.
- Swaab, R., Postmes, T., Van Beest, I., & Spears, R. (2007). Shared cognition as a product of, and precursor to, shared identity in negotiations. *Personality and Social Psychology Bulletin*, 33(2), 187-199.

مجلة كلية التراث الجامعة

العدد الرابع و الثلاثون



- Tai, H. T., & Mai, N. Q. (2016). Proactive personality, organizational context, employee creativity and innovative capability: Evidence from MNCs and domestic corporations. *International Journal of Organizational Analysis*, 24(3), 370-389.
- Taştan, S. B. (2013). The Influences of participative organizational climate and self-leadership on innovative behavior and the roles of job involvement and proactive personality: A Survey in the Context of SMEs in Izmir. *Procedia-Social and Behavioral Sciences*, 75, 407-419.
- Tierney, P., & Farmer, S. M. (2002). Creative self-efficacy: Its potential antecedents and relationship to creative performance. *Academy of Management Journal*, 45(6), 1137–1148.
- Tierney, P., & Farmer, S. M. (2004). The Pygmalion process and employee creativity. *Journal of management*, 30(3), 413-432.
- Yi-Feng Chen, N., Crant, J. M., Wang, N., Kou, Y., Qin, Y., Yu, J., & Sun, R. (2021). When there is a will there is a way: The role of proactive personality in combating COVID-19. *Journal of Applied Psychology*, 106(2), 199–213.
- Yuan, F., & Woodman, R. W. (2010). Innovative behavior in the workplace: The role of performance and image outcome expectations. *Academy of management journal*, 53(2), 323-342.