### "Influence of psychological contract fulfillment on job outcomes: A case of the academic sphere in Jordan"

AUTHORS	Qais Hammouri (b) R Asmahan Majed Altaher (b) Ahmad Rabaa'i (b) Heba Khataybeh (b) Jassim Al-Gasawneh (b)				
ARTICLE INFO	Qais Hammouri, Asmahan Majed Altaher, Ahmad Rabaa'i, Heba Khataybeh Jassim Al-Gasawneh (2022). Influence of psychological contract fulfillment o outcomes: A case of the academic sphere in Jordan. <i>Problems and Perspect in Management</i> , 20(3), 62-71. doi:10.21511/ppm.20(3).2022.05				
DOI	http://dx.doi.org/10.21511/ppm.20(3).2022	2.05			
RELEASED ON	Wednesday, 13 July 2022				
RECEIVED ON	Friday, 18 February 2022				
ACCEPTED ON	Wednesday, 08 June 2022				
LICENSE	This work is licensed under a Creative Commons Attribution 4.0 International License				
JOURNAL	"Problems and Perspectives in Managem	ent"			
ISSN PRINT	1727-7051				
ISSN ONLINE	1810-5467				
PUBLISHER	LLC "Consulting Publishing Company "Business Perspectives"				
FOUNDER	LLC "Consulting Publishing Company "Business Perspectives"				
S <sup>Q</sup>	B				
NUMBER OF REFERENCES	NUMBER OF FIGURES	NUMBER OF TABLES			
<b>59</b>	2	4			

<sup>©</sup> The author(s) 2022. This publication is an open access article.





#### **BUSINESS PERSPECTIVES**



LLC "CPC "Business Perspectives" Hryhorii Skovoroda lane, 10, Sumy, 40022, Ukraine

www.businessperspectives.org

Received on: 18<sup>th</sup> of February, 2022 Accepted on: 8<sup>th</sup> of June, 2022 Published on: 13<sup>th</sup> of July, 2022

© Qais Hammouri, Asmahan Majed Altaher, Ahmad Rabaa'i, Heba Khataybeh, Jassim Ahmad Al-Gasawneh, 2022

Qais Hammouri, M.Sc., Lecturer, Department of Management Information Systems, Faculty of Business, Applied Science Private University, Jordan. (Corresponding author)

Asmahan Majed Altaher, Ph.D., Associate Professor, Department of Business Administration, Faculty of Administrative and Financial Sciences, Aqaba University of Technology, Jordan.

Ahmad Rabaa'i, Ph.D., Associate Professor, Department of Finance, Faculty of Business, New Jersey City University, United States.

Heba Khataybeh, M.Sc., Lecturer, Department of Management Information Systems, Faculty of Information Technology, Yarmouk University, Jordan.

Jassim Ahmad Al-Gasawneh, Ph.D., Assistant Professor, Department of Marketing, Faculty of Business, Applied Science Private University, Jordan.



This is an Open Access article, distributed under the terms of the Creative Commons Attribution 4.0 International license, which permits unrestricted re-use, distribution, and reproduction in any medium, provided the original work is properly cited.

**Conflict of interest statement:** Author(s) reported no conflict of interest

Qais Hammouri (Jordan), Asmahan Majed Altaher (Jordan), Ahmad Rabaa'i (United States), Heba Khataybeh (Jordan), Jassim Ahmad Al-Gasawneh (Jordan)

# INFLUENCE OF PSYCHOLOGICAL CONTRACT FULFILLMENT ON JOB OUTCOMES: A CASE OF THE ACADEMIC SPHERE IN JORDAN

### **Abstract**

Changes in the economy, politics, competitors, customers, and even the weather affect the trust relationship between employers and employees. Most organizations are striving to strengthen such relationships by focusing on psychological contract fulfillment that allows for trust leading to job stability and career advancement. An integrated framework was used to investigate the role of psychological contract fulfillment on academic employees in two Jordanian universities (Yarmouk and Jadara Universities). The research area is determined in universities due to a breach of psychological contracts. Using a quantitative method, responses from academic employees were collected to examine their perception of the influence of psychological contract fulfillment on job outcomes. Hypotheses were tested using the partial least square structural equation modeling (PLS-SEM) method on data gathered from 90 academic employees. The findings indicated that psychological contract fulfillment positively influences both employee productivity and satisfaction. In addition, the results revealed that psychological contract fulfillment negatively influences employee turnover. Furthermore, the study findings have managerial implications through enhancing organizational citizenship behavior that leads to increased employee productivity and satisfaction.

**Keywords** psychological contract fulfillment, turnover, satisfaction,

productivity, social exchange theory

JEL Classification A13, E24

### INTRODUCTION

Psychological contract fulfillment (PCF) refers to the expectations in the relationship between employer and employee, such as reciprocal pledges and obligations, expectations of gains and duties, and sanctions and incentives connected with such expectations (van Den Heuvel et al., 2017). It is also defined as promises of self-commitment to a future transaction required to maintain the employer-employee relationship (Conway et al., 2011). Unfortunately, the concept of psychological contract is an aspect that has been frequently disregarded by firms (Shi & Gordon, 2020). Moreover, such firms are sometimes apprehensive since the correct implementation of psychological contracts can be costly, and determining a specific ROI is challenging to evaluate. Therefore, organizations must review their employees' psychological contracts to effectively attain their goals (Herrera & Las Heras-Rosas, 2021).

Psychological contract fulfillment depends on employee wishes and expectations regarding promotion, remuneration, training, job stability, and career advancement. It can also influence to a greater extent if an employee is willing to work extra hours, volunteer, or be patriotic at work (Birtch et al., 2016). An employee's psychological contract can assist a corporation in examining con-

straints to value-creating by improving operations, improving performance, reducing turnover, and increasing job satisfaction (Zacher & Rudolph, 2022).

Due to various organizational issues like Covid-19, globalization, and changing economic conditions, employees' psychological contract is unavoidable for any organization focused on dealing with competitiveness and company survival (Said et al., 2021). However, several studies have explored psychological contracts and focused their efforts on discovering and exploiting the major drivers of psychological contract fulfillment (Estreder et al., 2021; Karatepe et al., 2021; Khurshid et al., 2021; Sachdeva, 2022). They resulted in a slew of research articles that take a variety of methodologies in different areas and discover a variety of elements influencing psychological contract fulfillment.

According to the prior debate, the critical research question tackled in this study is: to what extent can psychological contract fulfillment affect employees' attitudes?

### 1. LITERATURE REVIEW

### 1.1. Psychological contract fulfillment

Psychological contracts refer to a written contract that consists of a set of obligations between employees and the organization to which both parties are supposed to owe each other (Turnley et al., 2003). The fulfillment of a psychological contract is one of the main issues influencing employee behavior, where better fulfillment of the psychological contract in the relationship between employer and employee leads to a positive influence on employee performance (Al-Gasawneh et al., 2022; Sachdeva, 2022). Thus, fulfillment of a psychological contract is related to behavior toward the organization more than a behavior of citizenship toward their colleagues (Bataineh et al., 2017; Wibowo, 2022). Furthermore, such fulfillment can occur through management tools like performance evaluations that help continuously improve employees' performance through a periodic review of individual achievements (Newaz et al., 2021).

On the other hand, several empirical studies reported that breaching a psychological contract is one of the primary reasons influencing workers' performance (Amoah et al., 2021; Gulzar et al., 2021; Said et al., 2021). The breach of a psychological contract occurs when the fulfillment of one of the obligations interferes with a psychological contract between employer and employee, which leads to adverse consequences influencing satisfaction and mutual trust (Jayaweera et al., 2021). It also negatively affects the behavior of workers through continuous absenteeism and neglect of

job duties, which may lead to increased employee turnover (Hammouri et al., 2015; Liu et al., 2020).

This study examines the influence of psychological contract fulfillment on employee turnover, employee satisfaction, and employee productivity. Therefore, the paper adopted the social exchange theory, as several empirical studies confirmed the effectiveness of such a theory in explaining the relationship between psychological contract fulfillment and the three proposed constructs.

### Impact of psychological contract fulfillment on employee turnover

Several studies reported that an organization that can keep skilled and talented employees would be able to compete and sustain itself (Abou-Moghli & Dandis, 2021; Govender et al., 2021; Kryscynski, 2021; Mitosis et al., 2021). Moreover, turnover is one of the main obstacles influencing organizations, where the breach of psychological contracts is considered to increase employees' turnover rates due to the lack of fulfillment of psychological contracts from employers (Sachdeva, 2022). Such a type of turnover occurs more often with junior employees than seniors (Said et al., 2021). The breach of psychological contracts creates psychological stress and emotional exhaustion for employees (Duran et al., 2021). Such a breach may lead to loss of organizational resources, where an employee is considered one of the main organizational resources.

Several empirical studies approved that there is a positive relationship between the breaching of the voluntary psychological contract and the turnover rates, where the workers' turnover occurs as a result of breaching the psychological contract (Langerud et al., 2022; Wibowo, 2022; Zacher & Rudolph, 2022). Furthermore, employers' violation of the psychological contract increases the employees' suspicion rate of benefits, promises, and obligations in the relationship between the organization and employees (Gadomska-Lila & Rogozińska-Pawełczyk, 2022; Hammouri & Altaher, 2020). In addition, the breach of the psychological contract is negatively related to job satisfaction, organizational commitment, confidence in the organization, task performance, and citizenship behavior. It is positively related to employee turnover intentions (Ampofo, 2021).

Most organizations are striving to meet their employees' expectations. Therefore, if there is a high commitment from the employer in relation to its employee in terms of promises, employees will feel that they are obligated to fulfill the terms of the contract, and the employer will also feel that they should be obligated to fulfill the terms of that contract (Herrera & Las Heras-Rosas, 2021). Such a balanced relationship positively affects workers' attitudes and leads to minimizing the rate of employee turnover (Arasli et al., 2019; Liu et al., 2020).

## 1.3. Impact of psychological contract fulfillment on employee satisfaction

Workers feel a sense of work insecurity when they believe they may lose their jobs in the future (Almaaitah et al., 2021; Hammouri & Abu-Shanab, 2017). Employees concerned about job security have a stressful existence at home and work (Soelton et al., 2019). Two types of job insecurity include quantitative and qualitative job insecurities (Hellgren et al., 1999). Quantitative job insecurity relates to the loss of a job, whereas qualitative job insecurity refers to the loss of specific employment characteristics (Long et al., 2022). Quantitative job insecurity is concerned with the construct's overall conceptualization. In contrast, qualitative job insecurity is concerned with the perceptions of potential loss in the employment relationships, such as deterioration of working conditions, lack of career advancement, and low levels of salary improvement (Fischmann et al., 2021).

The psychological contract fulfillment is an effective strategy that has a favorable impact on the employee-employer relationship. As a result, a psychological contract between an employee and employer must be activated (Rao, 2021). This would overcome many of the consequences employers may face in dealing with employees so that it goes beyond just employees' job satisfaction to the employees' organizational engagement. In this regard, Milanović et al. (2018) found that fulfillment of psychological contracts between employees and employers leads to a positive impact on employees' behavior, as it increases the probability of their satisfaction with their organization. It also drives them to achieve their duties effectively (Liang et al., 2022; Nayak et al., 2021).

On the contrary, the breaching of psychological contracts has many negative influences and goes beyond just job dissatisfaction as this breach can affect employees' outcomes or even, in some cases, force employees to leave their work (Balogun et al., 2022; Griep et al., 2021). Therefore, this study utilizes the social exchange theory in agreement with researchers who have confirmed such a theory in proving the relationship between psychological contract fulfillment and employee satisfaction.

### Impact of psychological contract fulfillment on employee productivity

Several empirical studies approved that fulfill-ment of psychological contracts is an effective strategy used to improve employees' efforts to increase their productivity (Ahmad et al., 2019; Nnaji-Ihedinmah et al., 2020; Sobaih et al., 2019). Organizations are seeking to improve employees' productivity; such improvement is expected to occur when organizations succeed in fulfilling the obligations promised to employees. Social exchange theory is most widely used to investigate the relationship between the fulfillment of psychological contracts and employee productivity (Anggraeni, 2018).

Furthermore, employee productivity is considered a management approach utilized to measure organizational citizenship behavior (Alhashedi et al., 2021; Hanandeh et al., 2021; Widiani et al., 2019). Therefore, workers are likely to express a high level of citizenship behavior, especially when the size of the fulfillment of the psychological contract conditions meets their expectations (Ahmad & Zafar, 2018; Rubab et al., 2021; Song & You, 2021).

### 2. AIM AND HYPOTHESES DEVELOPMENT

The aim of this study is to explore the influence of psychological contract fulfillment on academic employees in Jordanian universities. Based on the literature review, the current study formulated the following hypotheses:

- H1: Psychological contract fulfillment negatively affects employee turnover.
- H2: Psychological contract fulfillment positively affects employee satisfaction.
- H3: Psychological contract fulfillment positively affects employee productivity.

### 3. METHODOLOGY

This study explored the literature and attempted to demonstrate the factors influenced by the psychological contract fulfillment. The previous discussion explained the relationship between the fulfillment of a psychological contract and job outcomes, including employee turnover, employee satisfaction, and employee productivity. To validate the proposed research model of this study, a self-administered questionnaire was employed to collect data. The questionnaire comprised three sections. It begins with an explanation for the respondents about the objectives of the study. The second section is developed to collect respondents' demographic data. The last section included 18 items to collect data about the independent and dependent variables. Respondents were asked to evaluate the level of agreement with the proposed items based on a five-point Likert scale ranging from 1 = strongly disagree to 5 = strongly agree. All the questionnaire items used for predicting the research constructs were adopted from previous studies (Nayak et al., 2021; Nnaji-Ihedinmah et al., 2020; Sandhya & Sulphey, 2021; Sobaih et al., 2019) with minor modifications to reflect the Jordanian

context. In addition, the modifications were made to fit the language issue (Arabic vs. English).

The study population included university employees from all departments and divisions. The study covered three universities in Jordan, including Yarmouk University and Jadara University. A total of 90 usable questionnaires were returned after printing and distributing 115 ones. Smart-PLS 3.0 and SPSS were used in the data analysis. The structural equation model (SEM) method was selected to determine the relationship between variables (Hair et al., 2019).

### 4. DATA ANALYSIS

### 4.1. Demographic data

Of the total respondents, 70% were men, and 30% were women. The majority of them were between the age groups 35-45 years (51.2%). In addition, most participants (78.9%) have completed a bachelor's degree. Table 1 shows the demographics of the sample used.

Table 1. Demographic analysis

Item	Description	Frequency	Percentage (%)		
Gender	Male	63	70.0		
	Female	27	30.0		
Age	25-35	22	24.4		
	35-45	46	51.2		
	46+	22	24.4		
Education	Bachelor	71	78.9		
	Master or Ph.D.	19	21.1		

#### 4.2. Measurement model

The findings of the measurement model are depicted in Table 2. The measurement model was affirmed by identifying the convergent and discriminant validity. Composite reliability was used to determine the reliability of the construct. Hair et al. (2010) reported that composite reliability and factor loading values should exceed the threshold recommended (above 0.70). In addition, the recommended value of the average variance extracted (AVE) is greater than 0.50. However, the value of factor loading, composite reliability, and AVE have all been accepted. Such indicates that the instruments and the variables used in this study

are reliable and can be used to test the structural model and examine the proposed hypotheses.

Table 2. Measurement model

Construct	ITEMS	FL	CR	AVE
	PCF 1	0.896		0.702
	PCF 2	0.888		
Psychological Contract	PCF 3	0.862	0.904	
Fulfillment (PCF)	PCF 4	0.886	0.904	
	PCF 5	0.906		
	PCF 6	0.700		
	ET1	0.888		0.714
Employee Turnover	ET2	0.901	0.909	
(ET)	ET3	0.864	0.909	
	ET4	0.881		
<u>.</u>	ES1	0.883		0.695
Employee	ES2	0.891	0.901	
Satisfaction (ES)	ES3	0.864	0.901	
	ES4	0.861		
	EP1	0.840		0.630
Employee	EP2	0.813	0.872	
Productivity (EP)	EP3	0.885	0.672	
	EP4	0.860		

The Fornell-Larcker and cross-loadings criteria were applied to measure the constructs' discriminate validity. According to the Fornell-Larcker criterion, the value of square root of AVE should be greater than the correlation values among all constructs, while the cross-loading stipulates that the loading of each construct must be greater than all cross-loadings (Fornell & Larcker, 1981). Table 3 shows that all values support the discriminant validity of the measurement based on the Fronell-Larcker (in bold) and cross-loadings.

Table 3. Discriminant validity

Construct	PCF	ET	ES	EP
PCF	0.948			
ET	0.784	0.961		
ES	0.776	0.761	0.957	
EP	0.651	0.639	0.792	0.964

### 4.3. Structural model

The structural model results are shown in Table 4 and graphically described in Figure 1 and Figure 2. The psychological contract fulfillment was found to be a significant predictor of minimizing the rate of employee turnover ( $\beta = 0.679$ , p < 0.05).

Table 4. Hypotheses testing

Path Shape	SB	SD	<i>T</i> -value	<i>P</i> -value	VIF	R²	Decision
PCF -> ET	<b>0.6</b> 79	0.221	3.072	0.000	<b>2.05</b> 0	0.461	Supported
PCF -> ES	0.620	0.156	3.974	0.000	<b>2.45</b> 6	0.384	Supported
PCF -> EP	<b>0.65</b> 0	0.166	3.915	0.000	2.331	0.422	Supported

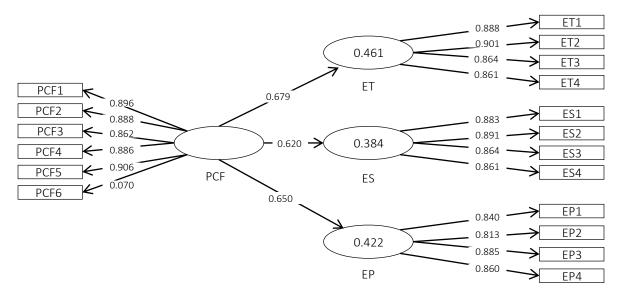
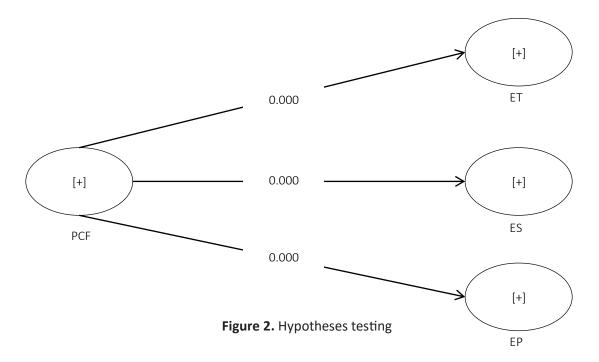


Figure 1. Validated research model



Therefore, H1 was supported. Both employee satisfaction ( $\beta$  = 0.620, p < 0.05) and employee productivity ( $\beta$  = 0.650, p < 0.05) were affected positively when the fulfillment of the psychological contract by organizations. Thus, H2 and H3 were supported.

5. DISCUSSION

The study's findings suggest the following two significant findings. First, there is a significant relationship between psychological contract fulfillment and employee turnover in Jordanian universities. Thus, H1 was supported. Moreover, Table 4 demonstrated that the relationship is statistically significant, where the t-test and p-value of 3.072 and 0.000, respectively. The result depicts that psychological contract fulfillment influences the intention of employees to sustain in working within their organizations,

thus leading to minimizing employee turnover. Such outcomes are consistent with the findings of Arasli et al. (2019) and Liu et al. (2020), who found a negative relationship between psychological contract fulfillment and employee turnover in the academic sector.

Second, the findings indicated that both employee satisfaction and employee productivity were positively influenced by the psychological contract fulfillment. Therefore, H2 and H3 were supported. Such findings are statistically confirmed where the p-values in both relations were 0.000 and the t-test of 3.974 and 3.915, respectively. These findings correspond with previous empirical studies conducted by Ahmad and Zafar (2018) and Rubab et al. (2021). This result supports the suggestion that when employees recognize that an effective psychological contract fulfillment meets their needs, it will make them more satisfied and improve their job productivity.

### CONCLUSIONS

This study aims to explore the influence of psychological contract fulfillment on employees' turnover rate, employee satisfaction, and employee productivity in Jordanian academic institutions. Psychological contract fulfillment has a negative impact on employee turnover. Such a finding implies that Jordanian universities should implement their obligations promise to their academic employees to decrease turnover rates.

In addition, the findings indicated that the fulfillment of psychological contracts has a positive and significant effect on employee satisfaction and employee productivity. These results provide recommendations for university management to adhere to the fulfillment of psychological contracts that drive academic employees to be more satisfied and productive. Therefore, decision-makers should endeavor to show high-level fulfillment of psychological contracts that ensure organizational citizenship behavior and boost the opportunities for workers to use their skills to attain organizational objectives. Finally, such outcomes will help the universities through a higher degree of job satisfaction and favorable organizational citizenship behavior, which in turn will help in employee retention and increase employee productivity.

### **AUTHOR CONTRIBUTIONS**

Conceptualization: Qais Hammouri, Heba Khataybeh.

Data curation: Qais Hammouri, Ahmad Rabaa'i, Heba Khataybeh.

Formal analysis: Asmahan Majed Altaher, Ahmad Rabaa'i, Jassim Ahmad Al-Gasawneh.

Funding acquisition: Ahmad Rabaa'i, Heba Khataybeh.

Investigation: Qais Hammouri, Asmahan Majed Altaher, Heba Khataybeh.

Methodology: Qais Hammouri.

Project administration: Qais Hammouri.

Resources: Qais Hammouri, Asmahan Majed Altaher, Heba Khataybeh. Software: Qais Hammouri, Ahmad Rabaa'i, Jassim Ahmad Al-Gasawneh.

Supervision: Asmahan Majed Altaher.

Validation: Heba Khataybeh, Jassim Ahmad Al-Gasawneh.

Visualization: Asmahan Majed Altaher, Jassim Ahmad Al-Gasawneh.

Writing – original draft: Qais Hammouri, Ahmad Rabaa'i, Jassim Ahmad Al-Gasawneh.

Writing – review & editing: Asmahan Majed Altaher, Ahmad Rabaa'i, Jassim Ahmad Al-Gasawneh.

### REFERENCES

- Abou-Moghli, A., & Dandis, A.
   (2021). The association between
   entrepreneurship, management,
   and sustainable development in
   the Middle East: A systematic
   review and meta-analysis.
   *Management Science Letters*,
   11(7), 2091-2098. Retrieved from
   http://m.growingscience.com/msl/
   Vol11/msl\_2021\_40.pdf
- Ahmad, I., & Zafar, M. (2018). Impact of psychological contract fulfillment on organizational citizenship behavior: Mediating role of perceived organizational support. International Journal of Contemporary Hospitality Management, 30(2), 1001-1015. https://doi.org/10.1108/ IJCHM-12-2016-0659
- Ahmad, I., Donia, M. B., Khan, A., & Waris, M. (2019). Do as I say and do as I do? The mediating role of psychological contract fulfillment in the relationship

- between ethical leadership and employee extra-role performance. *Personnel Review, 48*(1), 98-117. https://doi.org/10.1108/PR-12-2016-0325
- 4. Al-Gasawneh, J., Al Khoja, B., Al-Qeed, M., Nusairat, N. M., Hammouri, Q., & Anuar, M. M. (2022). Mobile-customer relationship management and its effect on post-purchase behavior: The moderating of perceived ease of use and perceived usefulness. International Journal of Data and Network Science, 6, 439-448. https://doi.org/10.5267/j.ijdns.2021.12.010
- 5. Alhashedi, A., Bardai, B., Al-Dubai, M., & Alaghbari, M. (2021). Organizational citizenship behavior role in mediating the effect of transformational leadership on organizational performance in gold industry of Saudi Arabia. *Business: Theory and*

- *Practice*, 22(1), 39-54. https://doi. org/10.3846/btp.2021.12774
- Al-maaitah, D., Majali, T., Alsoud, M., & Al-maaitah, T. (2021).
   The Role of Leadership Styles on Staffs Job Satisfaction in Public Organizations. *Journal of Contemporary Issues in Business and Government*, 27(1), 772-783.
   Retrieved from https://www.cibgp.com/article\_7791\_23e972e333f12e7bb5df53807ba0b797.pdf
- Amoah, V., Annor, F., & Asumeng, M. (2021). Psychological contract breach and teachers' organizational commitment: mediating roles of job embeddedness and leadermember exchange. *Journal of Educational Administration*, 59(5), 634-649. https://doi.org/10.1108/ jea-09-2020-0201
- 8. Ampofo, E. (2021). Do job satisfaction and work engagement mediate the effects

- of psychological contract breach and abusive supervision on hotel employees' life satisfaction? *Journal of Hospitality Marketing & Management*, 30(3), 282-304. https://doi.org/10.1080/19368623. 2020.1817222
- 9. Anggraeni, A. (2018). The effect of psychological contract, perceived organizational support, and value congruence on organizational citizenship behavior: social exchange theory perspectives. *Calitatea*, 19(162), 67-72.
- Arasli, H., Arici, H., & Arici, N. (2019). Workplace favouritism, psychological contract violation and turnover intention:
   Moderating roles of authentic leadership and job insecurity climate. German Journal of Human Resource Management, 33(3), 197-222. https://doi.org/10.1177/2397002219839896
- Balogun, A., Ayodele, I., Olowodunoye, S., & Ogundijo, K. (2022). Impact of psychological contract breach on police corruption in Nigeria: The moderating role of emotion regulation strategies. *International Journal of Police Science & Management*, 24(2), 137-146. https://doi.org/10.1177/14613557211064052
- 12. Bataineh, A., Alfalah, T., Falah, J., & Idris, M. (2017). The effect of employee-based brand equity on organizational citizenship behavior: The mediating role of job satisfaction. *International Journal of Academic Research in Business and Social Sciences*, 7(2), 423-436. Retrieved from https://hrmars.com/papers\_submitted/2651/ The\_Effect\_of\_Employee-Based\_ Brand\_Equity\_on\_Organization-al\_Citizenship\_Behavior\_The\_Mediating\_Role\_of\_Job\_Satisfaction. pdf
- Birtch, T., Chiang, F., & Van Esch, E. (2016). A social exchange theory framework for understanding the job characteristics–job outcomes relationship: The mediating role of psychological contract fulfillment. The international journal of human resource management, 27(11), 1217-1236. https://doi.org/10.1080 /09585192.2015.1069752

- Conway, N., Guest, D., &
   Trenberth, L. (2011). Testing the
   differential effects of changes in
   psychological contract breach and
   fulfillment. *Journal of vocational* behavior, 79(1), 267-276. https://
   doi.org/10.1016/j.jvb.2011.01.003
- 15. Duran, F., Woodhams, J., & Bishopp, D. (2021). The relationships between psychological contract violation, occupational stress, and well-being in police officers. *International Journal of Stress Management*, 28(2), 141-146. https://doi.org/10.1037/str0000214
- Estreder, Y., Tomás, I., Ramos, J., & Gracia, F. J. (2021). It is hard to forget what comes around: Time-lagged effects of employers' non-fulfillment of psychological contract. Human Resource Development Quarterly, 32(3), 349-361. https://doi.org/10.1002/ hrdq.21421
- 17. Fischmann, G., De Witte, H., Sulea, C., Elst, T. V., De Cuyper, N., & Iliescu, D. (2021). Validation of a short and generic Qualitative Job Insecurity Scale (QUAL-JIS). European Journal of Psychological Assessment. https://doi.org/10.1027/1015-5759/a000674
- Fornell, C., & Larcker, D. (1981). Evaluating structural equation models with unobservable variables and measurement error. *Journal of Marketing Research*, 18(1), 39-50. https://doi. org/10.2307/3151312
- Gadomska-Lila, K., & Rogozińska-Pawełczyk, A. (2022). The Role of Pro-Innovative HR Practices and Psychological Contract in Shaping Employee Commitment and Satisfaction: A Case from the Energy Industry. *Energies*, 15(1), 255. https://doi.org/10.3390/en15010255
- Govender, N., Reddy, P., & Bhagwan, R. (2021). Academic and psychosocial challenges of Health Sciences students during the COVID-19 pandemic: A University of Technology perspective. *Perspectives in Education*, 39(3), 44-61. https://doi.org/10.18820/2519593X/pie. v39.i3.5

- 21. Griep, Y., Bankins, S., Elst, T., & De Witte, H. (2021). How psychological contract breach affects long term mental and physical health: the longitudinal role of effort–reward imbalance. *Applied Psychology: Health and Well-Being, 13*(2), 263-281. https://doi.org/10.1111/aphw.12246
- 22. Gulzar, S., Ayub, N., Abbas, Z., & Gupta, M. (rev.ed.). (2021). Examining the mediating-moderating role of psychological contract breach and abusive supervision on employee wellbeing in banking sector. *Cogent Business & Management*, 8(1), 1959007. https://doi.org/10.1080/23311975.2021.1959007
- 23. Hair Jr, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (2010). SEM: An introduction. *Multivariate data analysis: A global perspective*, *5*(6), 629-686. Retrieved from https://www.researchgate.net/publication/303049557\_SEM\_An\_introduction\_Multivariate\_data\_analysis\_A\_global\_perspective
- 24. Hair, J., Risher, J., Sarstedt, M., & Ringle, C. (2019). When to use and how to report the results of PLS-SEM. *European business review*, *31*(1), 2-24. https://doi.org/10.1108/EBR-11-2018-0203
- 25. Hammouri, Q., & Abu-Shanab, E. (2017). Exploring the factors influencing employees' satisfaction toward e-tax systems. *International Journal of Public Sector Performance Management*, 3(2), 169-190. Retrieved from https://www.inderscienceonline.com/doi/abs/10.1504/IJP-SPM.2017.084673
- 26. Hammouri, Q., & Altaher, A. (2020). The Impact of Knowledge Sharing on Employees Satisfaction: Review. *International Journal of Psychosocial Rehabilitation*, 24(10), 2357-2366. Retrieved from https://www.psychosocial.com/article/PR300249/25738/
- 27. Hammouri, Q., Shraideh, L., & Abu-Shanab, E. (2015). Evaluating the Success of Information Strategic System Planning (Two Cases from Jordan). *7th*

- International Conference on Information Technology (pp. 390-396). Retrieved from http://icit. zuj.edu.jo/icit15/DOI/Information\_and\_knowledge\_Engineering/0075.pdf
- 28. Hanandeh, A., Hammouri, Q., Hanandeh, R., Hanandeh, R., & Barakat, S. (2021). Outsourcing and Job Performance: The Perspectives of Organizational Structure and Culture. *Turkish Journal of Computer and Mathematics Education*, 12(6), 4378-4387. Retrieved from https://turcomat.org/index.php/turkbilmat/issue/view/40
- Hellgren, J., Sverke, M., & Isaksson, K. (1999). A two-dimensional approach to job insecurity:
   Consequences for employee attitudes and well-being. European journal of work and organizational psychology, 8(2), 179-195. https://doi.org/10.1080/135943299398311
- 30. Herrera, J., & de Las Heras-Rosas, C. (2021). The organizational commitment in the company and its relationship with the psychological contract. *Frontiers in Psychology*, 11, 3978. https://doi.org/10.3389/fpsyg.2020.609211
- 31. Jayaweera, A., Bal, M.,
  Chudzikowski, K., & De Jong,
  S. (2021). Moderating effects
  of national culture on the
  psychological contract breach and
  outcome relationship: a metaanalysis. Cross Cultural & Strategic
  Management, 28(3), 574-599.
  https://doi.org/10.1108/CCSM-072020-0137
- 32. Karatepe, O. M., Saydam, M. B., & Okumus, F. (2021). COVID-19, mental health problems, and their detrimental effects on hotel employees' propensity to be late for work, absenteeism, and life satisfaction. *Current Issues in Tourism*, 24(7), 934-951. https://doi.org/10.1080/13683500.2021.1884665
- 33. Khurshid, N., Fatima, S., Khurram, S., & Hassan, M. M. (2021). Effect of Psychological Contract Fulfillment on Employee Creativity; Testing the Serial Mediation of Thriving at Work and Affective Organizational

- Commitment. *Psychology and Education*, 58(2), 4202-4218. Retrieved from http://www.psychologyandeducation.net/pae/index.php/pae/article/download/2796/2457/5243
- Kryscynski, D. (2021). Firm-specific worker incentives, employee retention, and wage-tenure slopes. *Organization Science*, 32(2), 352-375. https://doi.org/10.1287/orsc.2020.1393
- 35. Langerud, D., Jordan, P., Xerri, M., & Biggs, A. (2022). Unfulfilled Entitlement Beliefs and Employee's Emotion Regulation Motives and Job Satisfaction: A Conceptual Model. In R. H. Humphrey, N. M. Ashkanasy, & A. C. Troth (Eds.), Emotions and Negativity (pp. 161-175). Bingley: Emerald Publishing Limited. https://doi.org/10.1108/S1746-979120210000017014
- Liang, H., Shi, X., Yang, D., & Liu, K. (2022). Impact of mindfulness on construction workers' safety performance: The mediating roles of psychological contract and coping behaviors. Safety science, 146, 105534. https://doi.org/10.1016/j.ssci.2021.105534
- 37. Liu, W., He, C., Jiang, Y., Ji, R., & Zhai, X. (2020). Effect of gig workers' psychological contract fulfillment on their task performance in a sharing economy A perspective from the mediation of organizational identification and the moderation of length of service. *International journal of environmental research and public health*, 17(7), 2208. https://doi.org/10.3390/ijerph17072208
- Long, L. R., Tu, Y., Wang, H. J., & Jiang, L. (2022). The Content of the Threat Matters: the Differential Effects of Quantitative and Qualitative Job Insecurity on Different Types of Employee Motivation. *Journal of Business* and Psychology, 2, 297-310. https:// doi.org/10.1007/s10869-021-09746-3
- 39. Milanović, S., Đokić, M., & Đorđević, B. (2018). The influence of psychological contract

- breach on job satisfaction. *Facta Universitatis*. *Series: Economics and Organization*, 15(3), 203-215. https://doi.org/10.22190/FUE-O1803203M
- 40. Mitosis, K., Lamnisos, D., & Talias, M. (2021). Talent management in healthcare: A systematic qualitative review. *Sustainability*, 13(8), 4469. https://doi. org/10.3390/su13084469
- 41. Nayak, S., Jena, D., & Patnaik, S. (2021). Mediation framework connecting knowledge contract, psychological contract, employee retention, and employee satisfaction: An empirical study. *International Journal of Engineering Business Management*. https://doi.org/10.1177/18479790211004007
- Newaz, M., Wang, D., Davis, P., Wang, X., Jefferies, M., & Sheng, Z. (2021). A cross-cultural validation of the psychological contract of safety on construction sites. *Safety Science*, 141, 105360. https://doi. org/10.1016/j.ssci.2021.105360
- 43. Nnaji-Ihedinmah, N., Osisioma, H., & Ugwu, K. (2020).
  Psychological Contract and Employee Performance in the Construction Industry in South-East Nigeria. *The International Journal of Business & Management*, 8(2), 259-265. https://doi.org/10.24940/theijbm/2020/v8/i2/BM2002-081
- 44. Rao, I. (2021). Psychological Contract for Human Development and Organizational Sustainability. Business Perspectives and Research, 9(3), 415-426. https://doi. org/10.1177/2278533721989832
- 45. Rubab, S., Qayyum, S., & Fatima, I. (2021). Organizational Trust, Organizational Identification, Psychological Contract Breach and Organizational Citizenship Behavior in Professionals. *Psychology and Education Journal*, 58(2), 5075-5087.
- 46. Sachdeva, G. (2022). Impact of Psychological Contract on Employees' Performance: A Review. In I. Management Association (Ed.), Research Anthology on Human Resource

- Practices for the Modern Workforce (pp. 55-72). IGI Global. https://doi.org/10.4018/978-1-6684-3873-2.ch004
- Said, H., Ali, L., Ali, F., & Chen, X. (2021). COVID-19 and unpaid leave: Impacts of psychological contract breach on organizational distrust and turnover intention: Mediating role of emotional exhaustion. *Tourism Management Perspectives*, 39, 100854. https://doi.org/10.1016/j. tmp.2021.100854
- 48. Sandhya, S., & Sulphey, M. (2021). Influence of empowerment, psychological contract and employee engagement on voluntary turnover intentions. *International Journal of Productivity and Performance Management*, 70(2), 325-349. https://doi.org/10.1108/IJPPM-04-2019-0189
- 49. Sheehan, C., Tham, T., Holland, P., & Cooper, B. (2019). Psychological contract fulfilment, engagement and nurse professional turnover intention. *International Journal of Manpower*, 40(1), 2-16. https://doi.org/10.1108/IJM-08-2017-0211
- Shi, X., & Gordon, S. (2020).
   Organizational support versus supervisor support: The impact on hospitality managers' psychological contract and work engagement. *International Journal of Hospitality Management*, 87, 102374. https://doi.org/10.1016/j.ijhm.2019.102374
- Sobaih, A., Ibrahim, Y., & Gabry, G. (2019). Unlocking the black box: Psychological contract fulfillment as a mediator between HRM practices and job performance. *Tourism Management Perspectives*, 30, 171-181. https://doi.org/10.1016/j. tmp.2019.03.001
- 52. Soelton, M., Amaelia, P., & Prasetyo, H. (2019). Dealing with job Insecurity, work stress, and family conflict of employees. 4th International Conference on Management, Economics and Business (pp. 167-174). https://doi.org/10.2991/aebmr.k.200205.031

- 53. Song, W., & You, Y. (2021). The Impact of Perception of Psychological Contract Compliance on Organizational Citizenship Behavior of SMEs Workers. Elementary Education Online, 20(3), 924-932. https://doi. org/10.17051/ilkonline.2021.03.99
- 54. Susilo, D., Soetjipto, N.,
  Triwulan, A., Ratnaningtyas,
  D., Riswanto, A., Wasis, W., &
  Jaya, F. P. (2019). The effect of
  employee commitment, culture,
  and leadership style on good
  governance performance of
  Jombang District government
  (Indonesia). Revista Espacios,
  40(27). Retrieved from https://
  www.revistaespacios.com/
  a19v40n27/a19v40n27p22.pdf
- 55. Turnley, W., Bolino, M., Lester, S., & Bloodgood, J. (2003). The impact of psychological contract fulfillment on the performance of in-role and organizational citizenship behaviors. *Journal of management*, 29(2), 187-206. https://doi.org/10.1177/014920630302900204
- 56. van den Heuvel, S., Freese, C., Schalk, R., & van Assen, M. (2017). How change information influences attitudes toward change and turnover intention: The role of engagement, psychological contract fulfillment, and trust. *Leadership* & Organization Development Journal, 38(3), 398-418. https:// doi.org/10.1108/LODJ-03-2015-0052
- 57. Wibowo, T. (2022). Psychological Contract Theory Relation to Organizational Citizenship Behavior (OCB) of Flight Attendants. International Journal of Science, Technology & Management, 3(1), 144-152. https://doi.org/10.46729/ijstm. v3i1.445
- 58. Widiani, N., Putri, A., Sari, M., & Wirajaya, I. (2019). The effect of love of money and emotional intelligence on employee performance with organizational citizenship behavior as mediating variable. *International Research*

- Journal of Engineering, IT and Scientific Research, 5(1), 39-49. https://doi.org/10.21744/irjeis. v5n1.596
- 59. Zacher, H., & Rudolph, C. (2022). Researching employee experiences and behavior in times of crisis: Theoretical and methodological considerations and implications for human resource management. *German Journal of Human Resource Management*, 36(1), 6-31. https://doi. org/10.1177/23970022211058812