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# Investigating the effect of Knowledge Sharing Behavior and Job Satisfaction: Evidence from Banking Sector

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Keywords:

Knowledge, Knowledge Sharing, Job Satisfaction, Banking Sector

#### ABSTRACT

The purpose of this research is to assess the impact of Knowledge Sharing Behavior on Job Satisfaction of employees working in the banking sector. The data was randomly gathered from respondents via self-administered questionnaire. The final sample was of 91 employees. Pearson Correlation and Regression procedures were applied to test the hypothesis. The results indicated that Knowledge Sharing Behavior was interconnected with a Job Satisfaction. On the other hand, it was also concluded that Knowledge Sharing Behavior positively predicts Job Satisfaction. The implication of this research reflects that organization should pay more attention to practices that can increase Knowledge Sharing Behavior of employees so as to strengthen employee's Job Satisfaction.

## INTRODUCTION

In today's dynamic environment, Knowledge Sharing Behavior (KSB) between employees within the organization is a critical factor in achieving competitive advantage (Wang & Noe, 2010) and this competitive advantage cannot be sustained without appropriate Knowledge Management Process (Bailey & Clarke, 2000). Knowledge has two types; one is explicit, that a person can codify, write, express in symbolic form and share with others (Alavi & Leidner, 2001; Jayasundara, 2008), the other one is the tacit knowledge, which consists of beliefs, conceptual cards, experience, crafts and skills (Jayasundara, 2008; Nonaka, 1994). The organizations that succeed in obtaining and distribution of these two types of knowledge enjoy success, innovation, great customer services and high market shares (Singh & Sharma, 2011). Knowledge by itself is not worthy in an organization until it is shared with others. So Knowledge Sharing (KS) is the willingness of employees to exchange information with others (King, 2009) and hence promotes job satisfaction in different settings (Kianto, Vanhala, & Heilmann, 2016; Trivellas, Akrivouli, Tsifora, & Tsoutsa, 2015).

Job Satisfaction (JS) is the positive or negative feelings of employees about their work (Brayfield & Rothe, 1951; Locke & Dunnette, 1976; Spector, 1997), which increases commitment (Bolon, 1997) and

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hence upturns organizational performance (Judge, Thoresen, Bono, & Patton, 2001). According to Social Exchange theory (Blau, 1964), positive behaviors of an organization such as KS have a direct impact on employees satisfaction (Brayfield & Rothe, 1951). Scholars have found that KSB is positively related to JS (Kianto et al., 2016; Singh & Sharma, 2011; Trivellas et al., 2015). KSB is positive feelings of an employee towards performing an extra-role behavior (Li, Yuan, Ning, & Li-Ying, 2015) and when this behavior develops, then it leads toward intrinsic motivation such as Job Satisfaction (Meyer, Stanley, Herscovitch, & Topolnytsky, 2002).

In spite of increasing literature on KSB and JS, relatively very little research has focused on the path connecting these two variables. Most of the research work on linking KSB and JS is carried out in the developed countries (De Vries, Van den Hooff, & de Ridder, 2006; Kianto et al., 2016; Tong, Tak, & Wong, 2015; Trivellas et al., 2015) and very few studies are conducted in developing countries (Malik & Kanwal, 2018; Naz, Li, Nisar, & Rafiq, 2019) but none of the study was conducted in banking sector.

Therefore, there is a gap to be fulfilled by undertaking a survey on this phenomenon in banking sector of developing countries like Pakistan. The primary objectives of this study are to fill this gap by exploring the key aspects of KSB and JS, followed by determining the connection between dependent and independent variables of the study

The Banking industry performs a significant part in the country's financial growth. Swat is a remote location with few banks and less variation in bank choices. According to State Bank of Pakistan (SBP), the total number of banks working in Pakistan are 33 including public, private and for foreign banks. These 33 banks have a total of 13692 branches all over Pakistan till June 2018. Banking sector in district Swat are the major contributors in creating job opportunities and hence perform a major role in economic development of the area. The significance of this study is to highlight the KS in banking sector, with specific emphasis on KSB in relationship to JS. Furthermore, there is paucity of empirical studies examining KS in banking sector of Pakistan; hence this study will offer major contribution in the field of organization behavior in the form of application of KSB and JS phenomenon to banking sector.

# **Literature Review**

# **Knowledge Sharing**

Knowledge refers to the information, skills and experience an individual acquires in an organization (Serban & Luan, 2002). An organization considers knowledge an important strategic resource (Ipe, 2003) and the most precious asset to gain and maintain a competitive advantage (Bock, Zmud, Kim, & Lee, 2005) and innovation (Xie, Fang, Zeng, & Huo, 2016). For achieving the organizational goals knowledge shall be share with groups and the whole organization in order to achieve the objectives of the organization, effectively and efficiently (Nonaka, 1994). The knowledge sharing behavioral theories express that every organization shall encourage KSB and concentration among their employees in order to empower an individual employee to take precise decisions for long term sustainability of their organization (Dong, Bartol, Zhang, & Li, 2017; Kim & Park, 2017).

Knowledge sharing is the process of mutually exchanging knowledge among giver and receiver, and is a synergistic collaboration of individuals and groups working towards a common goal (Boland Jr & Tenkasi, 1995; Van Den Hooff & De Ridder, 2004). In other words, KS is the transfer and discrimination of information and expertise, sharing suggestions and ideas that occurs through simple or multiple sources of communication among individuals, groups or organizations (Alavi & Leidner, 2001; Bartol & Srivastava, 2002). According to Ryu, Ho, and Han (2003) it is a people to people process, where one's share the acquired valuable knowledge with other colleagues within the organization. Cummings (2004), further added that knowledge sharing can be done through written correspondence or face-to

face communication by developing a link with experts or documenting, organizing and capturing knowledge for others. In nut shell KS is an individual willingness to share their valuable knowledge with others (King, 2009).

## **Job Satisfaction**

Job satisfaction is a well-known and well researched area in organizational behavior and is considered as a matter of great interest in social sciences (Diaz-Serrano & Cabral Vieira, 2005). It is the level to which an individual likes his/her job (Spector, 2008). It reveals that how an individual feels about his/her job and it is use as a sign of emotional well-being of employees (Spector, 1997). The perception about JS varies from situation to situation (Fritzsche & Parrish, 2005) from the collection of feelings and beliefs of an individual called affective job satisfaction (Perrachione, Rosser, & Petersen, 2008; Thompson & Phua, 2012) to the cognition that employees have about the various aspects of their job (Moorman, Niehoff, & Organ, 1993).

Nash and Bernstein (2008) said that there are three integral components of JS. The first one is the emotional component, which is a one's job associated feelings like boredom, acknowledgement, anxiety and excitement. The second one is the cognitive component including employee's perception that whether job is reputable, mentally challenging and demanding as well as rewarding. The third one is the behavioral component that refers individual's actions linked to his / her work like feeling tiredness, lethargy, falsifying illness in order to avoid work. Employees who are satisfied from their jobs always inclined to low absenteeism, keep high quality by doing few mistakes, more productivity and stay longer with organization and have an important role in enhancing commitment of employees with organization (Bolon, 1997; Sánchez-Beaskoetxea & Coca García, 2015)

In addition to the above, JS is also an important employee's attitude and can be seen more prominent in the content theories, process theories and situational theories. Employees can be seen more satisfied when their social belongingness, self-esteem and self-actualization (Maslow, 1943) and growth needs are met (Herzberg, 1974). Quarstein, McAfee, and Glassman (1992) added that employee's satisfaction can be enhanced by the product of situational factors including situational occurrence and situational characteristics. Adams (1965) equity theory proposes that JS can arise from both situational and personality factors, where employees believe that their work will lead them to high performance and in return will get rewards.

Empirical evidences have revealed that job satisfaction is not only vital for employees but also for organization. Grant, Fried, and Juillerat (2011) conducted a survey on bank managers found that people working as teller were very dissatisfied from their jobs, because of the boring, micromanaged jobs, disregarding in low and higher level managerial activities and considering themselves as "just glorified clerks". The bank came to know about this dissatisfaction of employees and have redesigned teller job by giving them more responsibilities, added more diversity of skills, autonomy and authority, and by hence the bank accelerated its overall performance. The employees this dissatisfaction was because of lack of satisfaction (Herzberg, 1968). When these employees were satisfied by redesigning of their jobs, converted their lack of satisfaction into satisfaction in the form of staying longer and improving organization performance (Judge, Bono, Erez, & Locke, 2005).

# Relationship between Knowledge Sharing Behavior and Job Satisfaction

Studies on Knowledge Management and workplace outcomes show that JS of an employee is strongly effected by KSB of an organization (Bontis, Richards, & Serenko, 2011). In literature, KSB and JS are found connected together for achieving organizational objectives (Jacobs & Roodt, 2007; Rafique & Mahmood, 2018). For example, Singh and Sharma (2011) conducted a survey of project managers,

consultants, team members, designers and researchers, who were working in telecom companies and found that KSB significantly affect employee's satisfaction. Rehman, Mahmood, Salleh, and Amin (2011) have indirectly linked JS with KSB bases that job satisfaction is significantly associated with commitment (Karatepe & Tekinkus, 2006) and commitment is positively linked with KSB (Jacobs & Roodt, 2007). Furthermore, Kianto et al. (2016) also confirmed a significant positive relationship between KSB and JS among a sample of 824 individuals working in municipal organization of Southeastern Finland. Hence, KSB plays an important role in JS of employees (Lin, 2007) and success of an organization (Engström, 2003; Ismail, Nor, & Marjani, 2009).

Many studies have been carried out on KSB and JS relationship in different settings, such as Chang and Lee (2007) have studied Knowledge Management Practices impact on JS in a setting of electric wire company in Taiwan, Almahamid, Awwad, and McAdams (2010) studied KSB impact on JS in manufacturing companies in Jordan, Kianto et al. (2016) conducted a survey of 824 employees in Finland, Trivellas et al. (2015) studied the same relationship on individuals working in accounting firms in Greece. All of these studies have confirmed significant association between KSB and JS. In view of the previous literature and a series of arguments based on empirical studies in various organizations, this research extends the KS and JS relationship to Banking Sector. Therefore, for the present study the following hypothesis is generated:

H1: Knowledge sharing behavior of employees working in banking sector is positively related with Job Satisfaction.

# Methodology

Quantitative techniques were incorporated to explore the relationship between KSB and JS. A total of 100 self-administered questionnaires were distributed among the employees working at middle level in different banks situated at district Swat. A total of 95 questionnaires were received back, out of which 91 were suitable for further process, while the rest were having more than 50 percent missing data and thus were discarded.

# **Population and Sampling**

According to Development Statistics report 2017 of Khyber Pakhtunkhwa, a total of 100 scheduled banks operating in District Swat. State Bank of Pakistan reported that Allied Bank, Habib Bank, Muslim Commercial Bank, National Bank Pakistan and United Bank are the major banks operating in all over Pakistan. In Mingora Swat, fifteen branches of these five major banks are currently operating. The total population of respondents working in these fifteen branches is approximately 137. Therefore, the sample size for this study was taken 100 as per sampling formula adopted from Krejcie and Morgan (1970). The simple random sampling technique was applied, where each person is equally likely to be chosen thus reducing the likelihood of bias in information analysis (Moore, McCabe, Duckworth, & Sclove, 2003) and also does not include any division of population into different sub-populations in terms of either stratum or cluster, thus eliminating the potential for classification errors (Cavana, Delahaye, & Sekaran, 2001).

# **Research Instruments**

Knowledge Sharing Behavior was measured with a scale adopted from Almahamid, McAdams, and Kalaldeh (2010), whereas the scale adopted from Brayfield and Rothe (1951) was used to measure Job Satisfaction of employees working in banking sector. This measure of JS was referred as most scientific for measuring employees satisfaction for both academicians and practitioners (Judge, Scott, & Ilies,

2006; Saari & Judge, 2004). A five-point Likert scale ranges from '1 – Strongly Disagree' to '5 – Strongly Agree' was used to measure both KSB and JS.

# **Analysis**

Adequacy of the sample was assessed by Kaiser-Meyer-Olkin (1974) test in order to support the running of factor analysis. The results of Kaiser-Meyer-Olkin (KMO) shown in Table 1, have a value of .785, which is more than the recommended value of .60 (Kaiser, 1974). The Bartlett's Test of Sphericity result is significant and hence both KMO and Bartlett's Test results show sufficient variation in the data to carry on factor analysis.

Table 1: KMO and Bartlett's Test

KMO	Measure of Sampling Adequacy.	.785
Bartlett's Test of Sphericity	Approx. Chi-Square	510.776
	$\mathrm{Df}$	66
	Sig.	.000

The normality of study variables was checked by Skewness and kurtosis shown in Table 2. The values of normality test are ranging within acceptable range of  $\pm$  2 (Tabachnick & Fidell, 2007). In order to statistically validate the instrument, an exploratory factor analysis was applied. No factor loading was found below .40; hence all the factors were kept for further analysis as mentioned in Table 2. The Cronbach's alpha reliability test was used to determine the internal consistency of the constructs of the present study. According to Hair, Black, Babin, Anderson, and Tatham (2009) the minimum acceptable value for alpha is 0.70 and hence our results of alpha value are .75 and .85 for KSB and JS respectively. Therefore, it can be seen that the KSB and JS scales being adopted in this study have a great internal consistency and reliability, which are in line with studies of Judge et al. (2005) for JS with an alpha value of .89 and Almahamid, Awwad, et al. (2010) who calculated Cronbach's alpha value of .86 for KSB.

Table 2 Descriptive Results, Factor Loading and Reliability

Description of Item	No. of			Extraction / Factor	Cronbach's
	Items	Skewness	Kurtosis	Loading	Alpha
Job Satisfaction					_
JobS1*				.999	
JobS2				.729	
JobS3	5	879	.534	.778	.857
JobS4				.739	
JobS5				.839	
Knowledge Sharing					
Behavior					
KnoSB1**				.496	
KnoSB2				.488	
KnoSB3	7	627	274	.507	.759
KnoSB4				.629	
KnoSB5				.445	
KnoSB6				.431	
KnoSB7				.473	

<sup>\*</sup>JoS: Job Satisfaction, \*\*KnoSB; Knowledge Sharing Behavior

# **Sample Characteristics**

The first section of the questionnaire was related to correspondence's background. The detail analyses of these five demographic characteristics of the correspondence are given in the following Table 3.

Table 3: Review of the Basic Demographic Characteristics of the Study

Demographic Variables	Measures	Frequency	Percentage
Gender	Male	84	92.3
	Female	7	7.7
Designation	Clerical Staff	24	26.4
	Officer Grade 1	27	29.7
	Officer Grade 2	33	36.3
	Officer Grade 3	7	7.7
Qualification	Higher Secondary	42	46.2
	Graduation	31	34.1
	Post-Graduation	18	19.8
Experience	1-5 years	13	14.3
	6-10 years	23	25.3
	11-15 years	20	22
	15-20 years	28	30.8
	20-25 years	7	7.7
Marital Status	Single	41	45.1
	Married	50	54.9
Total		91	100

# **Hypothesis Testing**

To examine the link between KSB and JS, first Pearson's Correlation Analysis was applied. Table 4, portrays the results of the correlation matrix. The results revealed that KSB and JS are significantly (p<0.01) and positively correlated (r = 0.539) with each other. These results supported our hypothesis of interconnectedness of KSB with JS satisfaction of employees.

Table 4: Correlation between KSB and JS

		JS	KSB	
KS	Pearson Correlation	.539**		
	Sig. (2-tailed)	.000		
	N	91		
**. Correla	ation is significant at the 0.01 level (2-tailed).			

As a single continuous independent variable was used by the researcher, therefore, regression analysis was performed to further confirm the positive relationship between KSB and JS. For the relationship between KSB and JS, the ANOVA test results of Regression test shown in Table 5, demonstrated the significance F-value equal to 36.418 at p<0.05, which supports our study hypothesis by affirming that JS is significantly predicted by the score of employees on KSB behavior.

Table 5: ANOVA<sup>a</sup>

Mode	1	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	543.033	1	543.033	36.418	.000 <sup>b</sup>
	Residual	1327.077	89	14.911		
	Total	1870.110	90			
a. Dep	endent Variable: JS					
b. Pre	dictors: (Constant), K	SB				

The value of slope and intercept for KSB exhibits that how strong the relationship is. The constant value 4.506 and a slope of 0.549 of KSB regression line shown in the Table 6, below characterizes that a one unit increase in KSB can significantly predict a 0.549 units increase in employee's JS.

Table 6: Coefficients<sup>a</sup>

Model		Unstd. Coef	Unstd. Coefficients		t	Sig.
		В	Std. Err	Beta		
1	(Constant)	4.506	2.615		1.723	.008
	KSB	.549	.091	.539	6.035	.000

a. Dependent Variable: JS

The model summary is shown in Table 7. The 'R<sup>2</sup> value of 0.29 indicates that 29% of the variance in JS could be counted for employee's score on KSB.

**Table 7: Model Summary** 

Model	R	$\mathbb{R}^2$	Adj. R <sup>2</sup>	Std. Err of the Est.
1	.539a	.290	.282	3.86147
a. Predictor	rs: (Constant), KS	В		

## DISCUSSION

The demographic analysis of this study exhibited a very low percentage of 7.7% for female respondents; it may be due to the culture, norms and male dominancy in banking sector in Swat region of Pakistan. Results of the previous studies suggested that KSB and JS are positively correlated. Singh and Sharma (2011) indicated a positive correlation between KSB and JS, and predicted that KSB have very strong positive impact of R<sup>2</sup>=0.744 on JS. This difference in our results of R<sup>2</sup>= .290 may be due to difference in characteristics of industries. Singh and Sharma (2011) conducted their study in telecom setup while our study was conducted in Banking Sector, where the State Bank of Pakistan regularly circulate all the information on time to time and conduct trainings due to which most of the staff remain aware of the knowledge related to their jobs and operations. Studies of Almahamid, Awwad, et al. (2010) and Kianto et al. (2016) further confirmed that KSB significantly predict JS.

### **CONCLUSION**

The results of this study led to the conclusion that there is positive correlation between the dependent and independents constructs of the study. The Intra-organizational level Knowledge Sharing in banking has a significant effect on job satisfaction. This research validates a unique benefit of KSB for banking sector, supporting the opinions that knowledge sharing behavior is an essential driver for organizational success achieved through employee's job satisfaction (Andreeva & Kianto, 2012; Kianto et al., 2016). Therefore, on the basis of our study, it is concluded that

• There is a positive correlation between KSB and JS

• KSB significantly predict JS of employees working in banking sector

## Implications, Limitations and Recommendations

This research has adopted two valid instruments already tested and applied in developed countries and extended the application of these both scales to banking sector in developing countries. The reliability, validity and application of these instruments were tested by applying various valid statistical tools and thus added to the academic research by providing reliable instruments to be practice and applied in any academic research in the area of knowledge sharing and job satisfaction either in banking or any other services and manufacturing industry.

As knowledge sharing have a significant impact on job satisfaction, therefore, the practitioners and policy makers may focus more on to employees' willingness to share more knowledge. This willingness of sharing knowledge may be improved by providing opportunities for more learning, social interaction and mutual trust.

The limitations of the study are that the sample was male dominant, which bounds the generalizability of our study findings. In addition to this, the study has not considered the responses from top level administration, which might have different perception regarding KSB and JS. Furthermore, in future a large sample size may be selected to improve the validity and generalizability differences more thoroughly.

# REFERENCES

- Adams, J. S. (1965). Inequity in social exchange *Advances in experimental social psychology* (Vol. 2, pp. 267-299): Elsevier.
- Alavi, M., & Leidner, D. E. (2001). Knowledge management and knowledge management systems: Conceptual foundations and research issues. *MIS quarterly*, 107-136.
- Almahamid, S., Awwad, A., & McAdams, A. C. (2010). Effects of organizational agility and knowledge sharing on competitive advantage: an empirical study in Jordan. *International Journal of Management*, 27(3), 387.
- Almahamid, S., McAdams, A. C., & Kalaldeh, T. (2010). The Relationships among Organizational Knowledge Sharing Practices, Employees' Learning Commitments, Employees' Adaptability, and Employees' Job Satisfaction: An Empirical Investigation of the Listed Manufacturing Companies in Jordan. *Interdisciplinary Journal of Information, Knowledge & Management*, 5.
- Andreeva, T., & Kianto, A. (2012). Does knowledge management really matter? Linking knowledge management practices, competitiveness and economic performance. *Journal of knowledge management*, 16(4), 617-636.
- Bailey, C., & Clarke, M. (2000). How do managers use knowledge about knowledge management? Journal of knowledge management, 4(3), 235-243.
- Bartol, K. M., & Srivastava, A. (2002). Encouraging knowledge sharing: The role of organizational reward systems. *Journal of Leadership & Organizational Studies*, *9*(1), 64-76.
- Blau. (1964). Exchange and Power in Social Life Wiley New York Google Scholar.
- Bock, G.-W., Zmud, R. W., Kim, Y.-G., & Lee, J.-N. (2005). Behavioral intention formation in knowledge sharing: Examining the roles of extrinsic motivators, social-psychological factors, and organizational climate. *MIS quarterly*, 29(1), 87-111.
- Boland Jr, R. J., & Tenkasi, R. V. (1995). Perspective making and perspective taking in communities of knowing. *Organization science*, 6(4), 350-372.

- Bolon, D. S. (1997). Organizational citizenship behavior among hospital employees: A multidimensional analysis involving job satisfaction and organizational commitment. *Journal of Healthcare Management*, 42(2), 221.
- Bontis, N., Richards, D., & Serenko, A. (2011). Improving service delivery: Investigating the role of information sharing, job characteristics, and employee satisfaction. *The Learning Organization*, 18(3), 239-250.
- Brayfield, A. H., & Rothe, H. F. (1951). An index of job satisfaction. *Journal of applied psychology*, 35(5), 307.
- Cavana, R. Y., Delahaye, B. L., & Sekaran, U. (2001). *Applied business research: Qualitative and quantitative methods*: John Wiley & Sons Inc.
- Chang, S.-C., & Lee, M.-S. (2007). The effects of organizational culture and knowledge management mechanisms on organizational innovation: An empirical study in Taiwan. *The Business Review*, 7(1), 295-301.
- Cummings, J. N. (2004). Work groups, structural diversity, and knowledge sharing in a global organization. *Management science*, 50(3), 352-364.
- De Vries, R. E., Van den Hooff, B., & de Ridder, J. A. (2006). Explaining knowledge sharing: The role of team communication styles, job satisfaction, and performance beliefs. *Communication research*, 33(2), 115-135.
- Diaz-Serrano, L., & Cabral Vieira, J. A. (2005). Low pay, higher pay and job satisfaction within the European Union: Empirical evidence from fourteen countries.
- Dong, Y., Bartol, K. M., Zhang, Z. X., & Li, C. (2017). Enhancing employee creativity via individual skill development and team knowledge sharing: Influences of dual-focused transformational leadership. *Journal of Organizational Behavior*, 38(3), 439-458.
- Engström, T. E. (2003). Sharing knowledge through mentoring. *Performance improvement, 42*(8), 36-42.
- Fritzsche, B. A., & Parrish, T. J. (2005). Theories and research on job satisfaction. *Career development and counseling: Putting theory and research to work*, 180-202.
- Grant, A. M., Fried, Y., & Juillerat, T. (2011). Work matters: Job design in classic and contemporary perspectives.
- Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (2009). *Análise multivariada de dados*: Bookman Editora.
- Herzberg, F. (1968). One more time: How do you motivate employees: Harvard Business Review Boston, MA.
- Herzberg, F. (1974). Motivation-hygiene profiles: Pinpointing what ails the organization. *Organizational dynamics*.
- Ipe, M. (2003). Knowledge sharing in organizations: A conceptual framework. *Human resource development review*, 2(4), 337-359.
- Ismail, W., Nor, K. M., & Marjani, T. (2009). The role of knowledge sharing practice in enhancing project success. *Institute of Interdisciplinary Business Research*, 1(7), 34-52.
- Jacobs, E., & Roodt, G. (2007). *The development of a knowledge sharing construct to predict turnover intentions*. Paper presented at the Aslib Proceedings.
- Judge, T. A., Bono, J. E., Erez, A., & Locke, E. A. (2005). Core self-evaluations and job and life satisfaction: the role of self-concordance and goal attainment. *Journal of applied psychology*, 90(2), 257.
- Judge, T. A., Scott, B. A., & Ilies, R. (2006). Hostility, job attitudes, and workplace deviance: test of a multilevel model. *Journal of applied psychology*, *91*(1), 126.

- Judge, T. A., Thoresen, C. J., Bono, J. E., & Patton, G. K. (2001). The job satisfaction—job performance relationship: A qualitative and quantitative review. *Psychological bulletin*, 127(3), 376.
- Kaiser, M. (1974). Kaiser-Meyer-Olkin measure for identity correlation matrix. *Journal of the Royal Statistical Society*, 52, 296-298.
- Karatepe, O. M., & Tekinkus, M. (2006). The effects of work-family conflict, emotional exhaustion, and intrinsic motivation on job outcomes of front-line employees. *International Journal of Bank Marketing*, 24(3), 173-193.
- Kianto, A., Vanhala, M., & Heilmann, P. (2016). The impact of knowledge management on job satisfaction. *Journal of knowledge management*, 20(4), 621-636.
- Kim, W., & Park, J. (2017). Examining structural relationships between work engagement, organizational procedural justice, knowledge sharing, and innovative work behavior for sustainable organizations. *Sustainability*, 9(2), 205.
- King, W. R. (2009). Knowledge management and organizational learning *Knowledge management and organizational learning* (pp. 3-13): Springer.
- Krejcie, R. V., & Morgan, D. W. (1970). Determining sample size for research activities. *Educational* and psychological measurement, 30(3), 607-610.
- Li, J., Yuan, L., Ning, L., & Li-Ying, J. (2015). Knowledge sharing and affective commitment: the mediating role of psychological ownership. *Journal of knowledge management*, 19(6), 1146-1166.
- Lin, H.-F. (2007). Knowledge sharing and firm innovation capability: an empirical study. *International Journal of manpower*, 28(3/4), 315-332.
- Locke, E. A., & Dunnette, M. D. (1976). Handbook of industrial and organizational psychology. *The nature and causes of job satisfaction*, 1297-1349.
- Malik, M. S., & Kanwal, M. (2018). Impacts of organizational knowledge sharing practices on employees' job satisfaction: Mediating roles of learning commitment and interpersonal adaptability. *Journal of Workplace Learning*, 30(1), 2-17.
- Maslow, A. H. (1943). A theory of human motivation. *Psychological review*, 50(4), 370.
- Meyer, J. P., Stanley, D. J., Herscovitch, L., & Topolnytsky, L. (2002). Affective, continuance, and normative commitment to the organization: A meta-analysis of antecedents, correlates, and consequences. *Journal of vocational behavior*, 61(1), 20-52.
- Moore, D. S., McCabe, G. P., Duckworth, W. M., & Sclove, S. L. (2003). *The practice of business statistics*: Freeman New York, NY.
- Moorman, R. H., Niehoff, B. P., & Organ, D. W. (1993). Treating employees fairly and organizational citizenship behavior: Sorting the effects of job satisfaction, organizational commitment, and procedural justice. *Employee responsibilities and rights journal*, 6(3), 209-225.
- Nash, P. W., & Bernstein, D. A. (2008). Essentials of psychology: Houghton Mifflin.
- Naz, S., Li, C., Nisar, Q. A., & Rafiq, M. (2019). Linking emotional intelligence to knowledge sharing behaviour: mediating role of job satisfaction and organisational commitment. *Middle East J*, 6(3), 318-340.
- Nonaka, I. (1994). A dynamic theory of organizational knowledge creation. *Organization science*, *5*(1), 14-37.
- Perrachione, B. A., Rosser, V. J., & Petersen, G. J. (2008). Why Do They Stay? Elementary Teachers' Perceptions of Job Satisfaction and Retention. *Professional Educator*, 32(2), n2.
- Quarstein, V. A., McAfee, R. B., & Glassman, M. (1992). The situational occurrences theory of job satisfaction. *Human relations*, 45(8), 859-873.
- Rafique, G. M., & Mahmood, K. (2018). Relationship between knowledge sharing and job satisfaction: a systematic review. *Information and Learning Science*, 119(5/6), 295-312.

- Rehman, M., Mahmood, A. K. B., Salleh, R., & Amin, A. (2011). *Review of factors affecting knowledge sharing behavior*. Paper presented at the 2011 International Conference on E-business, Management and Economics IPEDR, Hong Kong: IACSIT Press.
- Ryu, S., Ho, S. H., & Han, I. (2003). Knowledge sharing behavior of physicians in hospitals. *Expert Systems with applications*, 25(1), 113-122.
- Saari, L. M., & Judge, T. A. (2004). Employee attitudes and job satisfaction. *Human Resource Management: Published in Cooperation with the School of Business Administration, The University of Michigan and in alliance with the Society of Human Resources Management, 43*(4), 395-407.
- Sánchez-Beaskoetxea, J., & Coca García, C. (2015). Media image of seafarers in the Spanish printed press. *Maritime Policy & Management*, 42(2), 97-110.
- Serban, A. M., & Luan, J. (2002). Knowledge Management: Building a Competitive Advantage in Higher Education: New Directions for Institutional Research, Number 113 (Vol. 4): Jossey-Bass.
- Singh, A. K., & Sharma, V. (2011). Knowledge management antecedents and its impact on employee satisfaction: A study on Indian telecommunication industries. *The Learning Organization*, 18(2), 115-130.
- Spector, P. E. (1997). *Job satisfaction: Application, assessment, causes, and consequences* (Vol. 3): Sage publications.
- Spector, P. E. (2008). Industrial and organizational psychology. Research and.
- Tabachnick, B. G., & Fidell, L. S. (2007). *Using multivariate statistics*: Allyn & Bacon/Pearson Education.
- Thompson, E. R., & Phua, F. T. (2012). A brief index of affective job satisfaction. *Group & Organization Management*, 37(3), 275-307.
- Tong, C., Tak, W. I. W., & Wong, A. (2015). The impact of knowledge sharing on the relationship between organizational culture and job satisfaction: The perception of information communication and technology (ICT) practitioners in Hong Kong. *International Journal of Human Resource Studies*, 5(1), 19.
- Trivellas, P., Akrivouli, Z., Tsifora, E., & Tsoutsa, P. (2015). The impact of knowledge sharing culture on job satisfaction in accounting firms. The mediating effect of general competencies. *Procedia Economics and Finance*, 19, 238-247.
- Van Den Hooff, B., & De Ridder, J. A. (2004). Knowledge sharing in context: the influence of organizational commitment, communication climate and CMC use on knowledge sharing. *Journal of knowledge management*, 8(6), 117-130.
- Wang, S., & Noe, R. A. (2010). Knowledge sharing: A review and directions for future research. *Human resource management review*, 20(2), 115-131.
- Xie, X., Fang, L., Zeng, S., & Huo, J. (2016). How does knowledge inertia affect firms product innovation? *Journal of Business Research*, 69(5), 1615-1620.