

ASSESSING THE RELATIONSHIP BETWEEN LEADERSHIP STYLES AND ORGANIZATIONAL CITIZENSHIP BEHAVIOR IN PAKISTAN'S EDUCATION SECTOR

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Abstract

This study examines the impact of transformational, transactional, and laissez-faire leadership styles on Organizational Citizenship Behavior (OCB) among employees in Pakistan's education sector. Anchored in the Full Range Leadership Theory, the research proposes three hypotheses to assess the positive and significant effects of each leadership style on OCB. A thorough review of the literature highlights both theoretical foundations and empirical evidence on the relationship between leadership styles and OCB. By focusing on the Pakistani educational context, this study addresses a notable gap in existing research. The findings are expected to offer valuable insights for educational institutions seeking to enhance employee engagement and overall organizational performance through effective leadership practices.

INTRODUCTION

Organizational Citizenship Behavior (OCB) refers to discretionary employee behaviors that are not part of formal job requirements but contribute positively to organizational effectiveness (Organ, 1988). In the dynamic environment of the education sector, such behaviors are crucial for institutional success. Leadership styles play a pivotal role in influencing OCB, yet limited research has explored this relationship within Pakistan's educational context. This study aims to fill this gap by examining how different leadership styles affect OCB among educational professionals in Pakistan.

Literature Review and Hypothesis Development

Organizational Citizenship Behavior (OCB) refers to discretionary individual behaviors that are not explicitly recognized by formal reward systems but that collectively enhance organizational functioning (Organ, 1988; Podsakoff et al., 2000). In the context of educational institutions, where human capital is central to service delivery, fostering OCB among faculty and staff is vital for institutional success and student outcomes (Somech & Bogler, 2002). Extant literature has identified leadership as a critical antecedent of OCB (Podsakoff et al., 1990; Vigoda-Gadot, 2007), with transformational, transactional, and laissez-faire leadership styles offering varying degrees of influence.



Transformational Leadership and OCB

Transformational leadership, characterized by idealized inspirational motivation, stimulation, and individualized consideration (Bass, 1985), has consistently been linked to elevated levels of OCB (Podsakoff et al., 1996; Organ et al., 2006). Leaders who embody transformational behaviors inspire employees to transcend self-interest for collective goals, thereby fostering a work environment conducive to discretionary, extra-role behaviors. Numerous empirical studies across organizational contexts, including education, affirm the positive association between transformational leadership and OCB (Lo et al., 2009; Khalid et al., 2011; Asgari et al., 2008). Based on these insights, the following hypothesis is proposed:

H1: Transformational leadership is positively associated with Organizational Citizenship Behavior.

Transactional Leadership and OCB

Transactional leadership is predicated on exchanges between leader and follower, where compliance is secured through contingent rewards and corrective actions (Bass, 1985; Burns, 1978). While not as inherently motivating as transformational leadership, transactional leadership can promote OCB by clarifying roles, reinforcing desired behaviors, and

fostering trust through reliable exchanges (Podsakoff et al., 2000). Empirical evidence on the relationship between transactional leadership and OCB is mixed but suggests a generally positive association under conditions of fairness and clarity (Wang et al., 2005; Boerner et al., 2007). In light of these considerations, the following hypothesis is formulated:

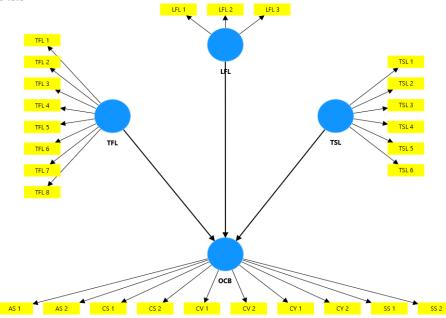
H2: Transactional leadership is positively associated with Organizational Citizenship Behavior.

Laissez-faire Leadership and OCB

Laissez-faire leadership is often described as an absence of leadership, marked by avoidance of decision-making, lack of feedback, and failure to address important issues (Bass & Avolio, 1990). This style is generally associated with negative organizational outcomes, including decreased employee engagement and diminished discretionary behavior (Skogstad et al., 2007). The literature suggests that laissez-faire leadership undermines employee motivation and weakens organizational norms that support OCB (Judge & Piccolo, 2004; Hetland et al., 2011). Accordingly, this study hypothesizes:

H3: Laissez-faire leadership is negatively associated with Organizational Citizenship Behavior.

CONCEPTUAL MODEL



Research Gap

Prior research has primarily examined the direct impact of transformational leadership on



organizational citizenship behavior (OCB) organizational commitment. Some studies have also explored the influence of both transformational and transactional leadership styles on these constructs. Notably, only a limited number of studies—such as those by Arif and Khan (2022), Nivya and Kalpana (2022), Masood et al. (2020), and Mangila and Paculaba (2020)—have investigated the effect of transformational, transactional, and laissez-faire leadership styles on OCB. Similarly, research by Nguyen et al. (2022), Jekelle (2021), Lanier (2020), and Abasilim et al. (2019) has focused on the relationship between these leadership styles and organizational commitment.

The majority of empirical studies examining the relationship between leadership styles, OCB, and organizational commitment—both direct and mediated—have been conducted in non-South Asian countries such as the Philippines, Italy, Iraq, Bahrain, Turkey, Ghana, Nigeria, Ethiopia, Uganda, Vietnam, Lebanon, Indonesia, Malaysia, and the United States. These contexts differ significantly from Pakistan in terms of socio-demographic characteristics, cultural norms, and economic conditions. As such, generalizing findings from these studies to the Pakistani context is problematic.

Further, much of the extant literature has focused on industries such as information technology, hospitality, travel and tourism, telecommunications, transportation, aviation, banking, and healthcare. While these are service industries, their operational frameworks, human resource practices, and regulatory environments differ substantially from those found in Pakistan's service sector—particularly in the education sector. This limits the applicability of their findings to educational institutions in Pakistan.

Although a few studies have explored leadership styles and their effects on OCB and organizational commitment within the Pakistani education sector—for example, among public school teachers (Arif & Khan, 2022), and university employees (Masood et al., 2020)—they remain scarce. Similar studies conducted in other educational contexts include research on school teachers in the Philippines (Mangila & Paculaba, 2020), secondary school teachers in Iraq

(Hamdi et al., 2021), vocational school staff in Indonesia (Hadijah et al., 2019), higher education institutions in Indonesia (Syakur et al., 2020), university employees in Iran (Asgari et al., 2020), political school staff in Vietnam (Nguyen et al., 2022), and public sector university teachers in Uganda and Malaysia (Mwesigwa et al., 2020; Al-Mamary, 2021). Importantly, these studies were largely confined to

Importantly, these studies were largely confined to single institutions or limited samples, thereby restricting the generalizability of their findings to the broader educational sector. Given these limitations, there remains a clear research gap in examining the influence of transformational, transactional, and laissez-faire leadership styles on OCB and organizational commitment in a broader and more representative sample of educational institutions in Pakistan.

This study seeks to address this gap by providing empirical evidence on the relationship between leadership styles and OCB, both directly and through the mediating role of organizational commitment, within the context of Pakistan's education sector.

Research Methodology

The target population for this study comprised teachers employed at schools, colleges, and universities affiliated with and recognized by the Board of Secondary Education Karachi (BSEK), Board of Intermediate Education Karachi (BIEK), and the Higher Education Commission (HEC) of Pakistan. A disproportionate stratified random technique was employed to ensure representation across these educational tiers. From the stratified sample frame, 1,200 self-administered questionnaires were distributed. After data cleaning and validation, 1,000 completed and valid responses were retained for final analysis, yielding a usable response rate of approximately 83.3%.

A structured questionnaire using a five-point Likert scale (ranging from 1 = strongly disagree to 5 = strongly agree) was used to measure leadership styles perceived by the respondents. The questionnaire items were adapted from validated leadership style scales based on transformational, transactional, and laissez-faire leadership frameworks (Bass & Avolio, 1994).



Data Analysis and Findings

Table 1: Perception of Leadership Styles

LS	Statement	Mean	Standard Deviation
1	My superior talks about desirable achievements enthusiastically with me.	3.109	1.008
2	My superior expresses confidence that I will achieve the goals.	3.096	0.998
3	My superior discusses the most important values and beliefs with me.	3.055	0.979
4	My superior duly considers the ethical and moral outcomes of his/her decisions.	3.176	1.025
5	My superior understands that my needs, abilities, and aspirations differ from other employees.	2.973	1.256
6	My superior facilitates me in developing my strengths.	3.502	1.130
7	My superior encourages me to analyze problems from different angles.	3.528	1.134
8	My superior suggests new ways for completing assignments.	3.568	1.128
9	My superior clearly expresses what I should expect upon achieving performance goals.	3.578	1.078
10	My superior expresses satisfaction when I meet expectations.	3.577	1.104
11	My superior focuses on irregularities, mistakes, exceptions, and deviations from standards.	3.217	1.216
12	My superior draws attention to failures in meeting standards.	3.106	1.246
13	My superior intervenes only when problems become serious.	3.033	1.295
14	My superior believes no improvement is needed if existing practices are sufficient.	3.007	1.264
15	My superior avoids involvement in significant issues.	2.982	1.270
16	My superior is absent in times of need.	2.987	1.297
17	My superior avoids decision-making.	3.396	1.113

Interpretation of Results

(TFL) Transformational Leadership Items LS1-LS4 yielded mean scores ranging from 3.055 to 3.176, indicating a neutral perception from respondents regarding their supervisors' enthusiasm for achievements, articulation of values and beliefs, confidence in subordinates, and considerations. However, LS5 had a lower mean score of 2.973, suggesting disagreement that superiors recognize individual employee needs and aspirations. On the other hand, items LS6-LS8, with mean scores ranging from 3.502 to 3.568, show positive perceptions of transformational leadership behaviors, such as helping employees develop strengths, promoting analytical thinking, and suggesting innovative methods for task completion.

Transactional Leadership (TSL) Items LS9 and LS10 scored between 3.568 and 3.578, indicating agreement that superiors clearly communicate performance expectations and express satisfaction upon meeting those expectations.

However, items LS11-LS14 (mean scores: 3.007-3.217) reflect a neutral stance on whether supervisors focus on employee errors, intervene when necessary, or resist change when existing methods suffice.

Laissez-Faire Leadership (LFL) LS15 and LS16 received mean scores of 2.982 and 2.987, respectively, indicating general disagreement with the notion that superiors avoid involvement or are absent when needed. Interestingly, LS17 yielded a mean score of 3.396, suggesting moderate agreement that some leaders exhibit indecision or avoid making critical choices.

Standard Deviation Analysis Standard deviations for most items exceeded 1.0, indicating moderate variability in responses. Exceptions were found in LS2 and LS3, where standard deviations were closer to 1.0, suggesting more consistent perceptions across participants. Overall, the data indicate relatively stable patterns in perceived



leadership behaviors, with some variation in response strength across different leadership styles.

Perception of Organizational-citizenship Behavior

Table 1-2 shows Participants' perception regarding Organizational-citizenship behavior(OCB). Statements

measuring Altruism (AM) are OCB 1-2, Conscientiousness (CS) are OCB 3-4, Sportsmanship (SP) are OCB 5-6, Courtesy(CY) are OCB 7-8 and Civic Virtue (CV) are OCB 9-10

Table 1-2: Perception of Organizational-citizenship behavior

ОСВ	STATEMENTS	MEAN	STANDARD DEVIATION
1	I am always ready to help my colleagues.	3.027	1.132
2	I help new colleagues to adjust even though it is not required.	3.332	1.168
3	I obey the rules and regulations of the organization even though no one is watching.	2.826	1.151
4	My attendance is above norm.	2.87	1.138
5	I tend to exaggerate small problems at work.	2.984	1.174
6	I always find fault with what the organization is doing.	2.801	1.223
7	I do not abuse rights of other employees at work.	2.811	1.185
8	I am mindful that how my behavior affects job of my colleagues.	2.777	1.194
9	I keep myself abreast of changes take place in my organization.	3.06	1.234
10	I attend functions which are not required but help in enhancing the image of my organization.	2.945	1.2

The mean score of Altruism (AS) items OCB1-OCB 2 is 3.027-3.332 indicating indifference of participants over assertions that they are always ready to help their colleagues, help new colleagues to adjust even though not requires and keep themselves abreast of changes taking place in organization. Conscientiousness (CS) items OCB 3-OCB 4 mean score is 2.826-2.87 indicate their disagreement that they follow rules even no one is watching and attendance is above norm. Mean score of Sportsmanship (SS) item OCB 5-OCB6 is 2.801-2.984 indicate their disagreement that they exaggerate small problems and find faults with organization. Courtesy(CY) items OCB 8-OCB 9 show mean score of 2.777-2.811 means participants' disagreement over assertions that they do not abuse rights of colleagues and are mindful of their behavior towards their colleague. The mean score of Civic Virtue(CV) item OCB 9 is 3.06 means participants' indifference for keeping them abreast of changes in their organization whereas for Civic Virtue(CV) item OCB 10 mean score is 2.945 show their disagreement that they attend

functions which are not required but help in enhancing image of their organization.

Additionally, the standard deviation is slightly greater than 1 for all items on citizenship scale. It means participants perception of citizenship behavior is stable and responses do not show much variation.

Partial Least Square Structural Equation Modeling (PLS-SEM)

Measurement Model

Factor Loading

It is a statistical measure used to examine the strength and significance of the association among latent variables and its observed variables. It measures the contribution of latent variables in the measurement of variance they cause in their indicators. Loading more than 0.708 signify strong, relationship among observed and latent variables as it shows that latent variable describes more than 50 percent variance in the indicators (Hair Jr, Hult, Ringle, & Sarstedt, 2021). Factor loadings of this study are presented in



Table 1-3. In this study almost all item loadings are above threshold value except TFL 5 with loading of 0.654 and AS 2 with factor loading of .683 which is slightly below than critical value but it is retained as according to Hair Jr, Hult, Ringle, Sarstedt, et al. (2021) factors having loadings between 0.40 and 0.708

only be deleted if they do not affect the other reliability and validity measures. Therefore, the relationship among all

indicators and their latent variables of this study is strong and latent variables elucidate more than 50 percent of the variance in their respective indicators.

Table 1-3 -Factor loading

Table 1-3 -1 actor loading	TFL	TSL	LFL	OCB
TFL 1	0.866			
TFL 2	0.877			
TFL 3	0.863			
TFL 4	0.878			
TFL 5	0.654			
TFL 6	0.794			
TFL 7	0.804			
TFL 8	0.821			
TSL 1		0.757		
TSL 2		0.792		
TSL 3		0.801		
TSL 4		0.810		
TSL 5		0.832		
TSL 6		0.780		
LFL 1			0.885	
LFL 2			0.907	
LFL 3			0.796	
AS 1				0.826
AS 2				0.683
CS 1				0.877
CS 2				0.860
SS 1				0.891
SS 2				0.892
CY 1				0.850
CY 2				0.881
CV 1				0.804
CV 2				0.743

Convergent Validity

Convergent validity refers to the extent to which a latent construct correlates with its observed indicators, thereby demonstrating that the items are measuring the same underlying concept (Ajayi & Adebayo, 2021). In Partial Least Squares Structural Equation Modeling (PLS-SEM), convergent validity is assessed using the average variance extracted (AVE), which reflects the average amount of variance in the indicators that is

accounted for by their respective latent constructs (Hair et al., 2021).

A construct is considered to demonstrate adequate convergent validity when the AVE value is equal to or greater than 0.50. As shown in Table 1–5, all constructs in this study have AVE values exceeding the threshold, indicating that each latent variable explains a substantial portion of the variance in its indicators. Therefore, the measurement instrument used in this study is confirmed to have strong convergent validity.



Table 1-5 Average Variance Extracted (AVE)

Construct	AVE
TFL	0.677
TSL	0.633
LFL	0.747
OCB	0.694

Note: TFL = Transformational Leadership; TSL = Transactional Leadership; LFL = Laissez-Faire Leadership; OCB = Organizational Citizenship Behavior.

These AVE values confirm that the latent constructs in this study significantly explain the average variance in their associated indicators.

Discriminant Validity

Discriminant validity refers to the degree to which a latent construct is distinct from other constructs within the model (Ajayi & Adebayo, 2021). It ensures that each construct captures phenomena not represented by other constructs in the model. Discriminant validity in this study was assessed using three established methods: the Fornell-Larcker criterion, the heterotrait-monotrait ratio of correlations (HTMT), and cross-loadings (Hayat et al., 2023).

Table 1-6 Fornell-Larcker Criterion

Construct	TFL	TSL	LFL	OCB
TFL	0.823			
TSL	0.820	0.796		
LFL	0.669	0.816	0.864	
OCB	0.571	0.511	0.449	0.833

Note: Diagonal values (bolded) are the square roots of AVE. Off-diagonal values are inter-construct correlations. TFL = Transformational Leadership;

Heterotrait-Monotrait Ratio (HTMT)

The HTMT ratio is another robust method for assessing discriminant validity. It measures the mean of correlations across constructs (heterotraitheteromethod) relative to the mean of correlations

Discriminant Validity

Discriminant validity assesses the extent to which latent constructs are distinct and measure different concepts within a model (Ajayi & Adebayo, 2021). It is an essential component of construct validity, ensuring that the indicators of a given latent variable are not excessively correlated with those of other latent variables.

Fornell-Larcker Criterion

According to Fornell and Larcker (1981), discriminant validity is established when the square root of the average variance extracted (AVE) for each construct exceeds the correlation coefficients between that construct and all other constructs. As presented in Table 1–6, the diagonal values (square roots of AVE) are greater than the off-diagonal interconstruct correlations in all cases, thereby satisfying the Fornell-Larcker criterion. This indicates that each construct in the model shares more variance with its own indicators than with other constructs, confirming discriminant validity.

TSL = Transactional Leadership; LFL = Laissez-Faire Leadership; OCB = Organizational Citizenship Behavior.

within the same construct (monotrait-heteromethod). As per Henseler et al. (2015, as cited in Shrestha, 2021), an HTMT value below 0.90 is acceptable when constructs are conceptually related, while a more conservative threshold of 0.85 is



recommended when constructs are conceptually distinct.

As shown in Table 1-7, all HTMT values fall below the 0.90 threshold, and most are below the stricter

0.85 criterion. This provides further evidence that the constructs in this study are sufficiently distinct from each other.

Table 1-7 Heterotrait-Monotrait Ratio (HTMT)

Construct Pair	HTMT Value
TFL - TSL	0.881
TFL - LFL	0.740
TFL - OCB	0.611
TSL - LFL	0.873
TSL - OCB	0.556
LFL - OCB	0.489

All HTMT values are within acceptable ranges, indicating that discriminant validity is well established across the constructs.

Cross Loadings

Cross loadings indicate how strongly each item (indicator) loads on its intended latent construct compared to other constructs. An item should load

highest on its assigned construct to ensure discriminant validity (Rönkkö & Cho, 2022). Following the criterion proposed by Al-Emran et al. (2019), all indicators in this study load more strongly on their respective constructs than on any other latent variable, as presented in Table 1–8. This confirms the model's discriminant validity.

Table 1-8 Cross Loadings of Items on Latent Constructs

Indicator	TFL	TSL	LFL	OCB
TFL 1	0.866	0.670	0.560	0.483
TFL 2	0.877	0.680	0.566	0.481
TFL 3	0.863	0.644	0.533	0.444
TFL 4	0.878	0.715	0.620	0.465
TFL 5	0.654	0.679	0.736	0.403
TFL 6	0.794	0.625	0.429	0.484
TFL 7	0.804	0.689	0.511	0.484
TFL 8	0.821	0.714	0.493	0.519
TSL 1	0.757	0.757	0.499	0.484
TSL 2	0.763	0.792	0.530	0.479
TSL 3	0.646	0.801	0.653	0.386
TSL 4	0.649	0.810	0.634	0.403
TSL 5	0.594	0.832	0.779	0.370
TSL 6	0.515	0.780	0.793	0.325
LFL 1	0.496	0.729	0.885	0.326
LFL 2	0.579	0.708	0.907	0.351
LFL 3	0.674	0.681	0.796	0.501



Indicator	TFL	TSL	LFL	OCB
AS 1	0.454	0.408	0.400	0.826
AS 2	0.583	0.459	0.300	0.683
CS 1	0.459	0.403	0.324	0.877
CS 2	0.422	0.387	0.346	0.860
SS 1	0.483	0.416	0.362	0.891
SS 2	0.492	0.443	0.390	0.892
CY 1	0.479	0.463	0.473	0.850
CY 2	0.495	0.468	0.435	0.881
CV 1	0.443	0.415	0.369	0.804
CV 2	0.488	0.412	0.334	0.743

Note: Bold values indicate the highest loading for each item on its respective construct.

Structural Model

Following the validation of the measurement model, the structural model was assessed to evaluate the hypothesized relationships among the latent constructs. This stage aims to test the theoretical framework of the study by analyzing the magnitude, significance, and direction of relationships using path coefficients derived from PLS-SEM (Donkor, 2021; Hair & Alamer, 2022).

The structural model assesses the predictive power of exogenous variables (i.e., leadership styles: transformational, transactional, and laissez-faire) on the endogenous construct (Organizational Citizenship Behavior). It also determines the extent to which the model supports the proposed hypotheses based on empirical data.

The next section will present the results of hypothesis testing, including path coefficients, t-values, and p-values, to evaluate the direct effects among constructs.

Indicator Collinearity

Collinearity refers to the degree of intercorrelation among indicators of an independent latent construct, which can bias the results in a structural model (Hair Jr., Hult, Ringle, & Sarstedt, 2021). To assess collinearity, the Variance Inflation Factor (VIF) is commonly employed. A VIF value below 5 indicates that collinearity is not critical, whereas a value below 3 suggests that no multicollinearity is present at all (Hair et al., 2021; Hair & Alamer, 2022).

In this study, VIF values for all indicators were found to be well below the recommended threshold of 5, as shown in Table 1–9. This confirms that multicollinearity does not pose a concern and that the exogenous constructs are statistically suitable to predict the endogenous construct. Thus, the structural model of this study can be considered robust in terms of indicator collinearity.

Table 1-9 Variance Inflation Factor (VIF) Values

Indicator	VIF	Indicator	VIF
TFL 1	3.831	TSL 1	3.003
TFL 2	4.473	TSL 2	3.317
TFL 3	3.692	TSL 3	2.142
TFL 4	3.878	TSL 4	2.212
TFL 5	1.603	TSL 5	3.880
TFL 6	2.932	TSL 6	2.807
TFL 7	3.193	LFL 1	2.363
TFL 8	3.478	LFL 2	2.581



Indicator	VIF	Indicator	VIF
AS 1	2.831	LFL 3	1.546
AS 2	1.949	CS 1	4.234
SS 1	4.479	CS 2	4.437
SS 2	4.728	CY 1	3.579
CV 1	3.080	CY 2	4.477
CV 2	2.841		

All VIF values are below the critical threshold of 5, confirming that multicollinearity does not pose a concern in this model.

Significance and Relevance of Relationships in the Structural Model

Significance and Relevance of Relationships in the Structural Model

Path coefficients (β) were computed using the bootstrapping technique to test the hypothesized relationships among latent variables. A path coefficient value of 1 indicates a strong positive relationship, while a value of 0 signifies no relationship (Hair Jr., Hult, Ringle, Sarstedt, et al., 2021). The statistical significance of each path was assessed using t-statistics and p-values. A relationship is considered statistically

significant if the t-statistic exceeds 1.96 and the p-value is below 0.05 (Wong, 2019).

As shown in Table 1-10, the path coefficient for TFL \rightarrow OCB (β = 0.465) indicates a strong positive and statistically significant relationship. Similarly, LFL \rightarrow OCB (β = 0.095) also shows a statistically significant, though weaker, positive relationship. However, the path coefficient for TSL \rightarrow OCB (β = 0.052) is low, with a t-statistic of 0.814 and a p-value of 0.416, indicating that this relationship is not statistically significant.

Table 1-10 Path Coefficients, T-Statistics, and P-Values

Path	β (Coefficient)	Sample Mean (M)	Standard Deviation (STDEV)	T-Statistic	P-Value
$TFL \rightarrow OCB$	0.465	0.466	0.049	9.513	0.000
$TSL \to OCB$	0.052	0.052	0.064	0.814	0.416
$LFL \to OCB$	0.095	0.094	0.047	2.022	0.043

Explanatory Power

The explanatory power of the model was evaluated using the coefficient of determination (R²), which represents the proportion of variance in the endogenous construct explained by the exogenous constructs (Zeng, Liu, Gong, Hertogh, & König, 2021). According to the widely accepted thresholds proposed by Hair, Ringle, and Sarstedt (2011, as cited in Sarstedt, Ringle, & Hair, 2021), R² values of 0.75, 0.50, and 0.25 are indicative of substantial, moderate, and weak explanatory power, respectively.

As shown in Table 1–11, the R² value for OCB is 0.335, suggesting moderate explanatory power of the model. This implies that the exogenous constructs—transformational leadership (TFL), transactional leadership (TSL), and laissez-faire leadership (LFL)—collectively explain 33.5% of the variance in the endogenous construct, Organizational Citizenship Behavior (OCB).

Table 1-11 Coefficient of Determination (R2) for Endogenous Construct

Construct	\mathbb{R}^2	Adjusted R ²
OCB	0.335	0.333



In addition, effect size (f²) was calculated to evaluate the individual impact of each exogenous variable on the endogenous construct. Following the guidelines of Hair et al. (2011, as cited in Zeng et al., 2021), f² values of 0.02, 0.15, and 0.35 represent small, medium, and large effects, respectively, while values below 0.02 suggest no effect.

As shown in Table 1–12, **TFL** has a small but meaningful effect on OCB ($f^2 = 0.106$). In contrast, **TSL** and **LFL** have negligible effects on OCB, with f^2 values of 0.001 and 0.005, respectively. This further confirms that TFL is the primary predictor of OCB in this study.

Table 1-12 Effect Size (f2) of Exogenous Constructs on OCB

Predictor	f ² (Effect Size)		
TFL	0.106		
TSL	0.001		
LFL	0.005		

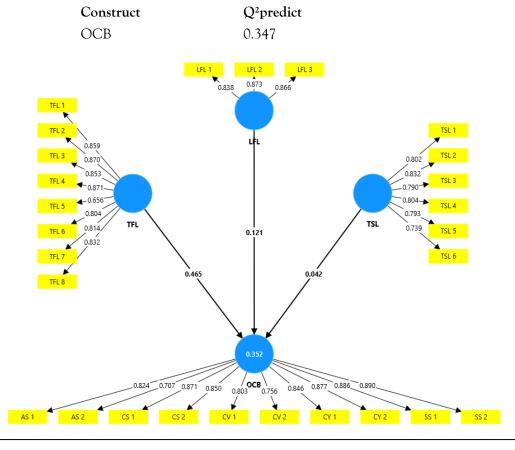
Predictive Relevance (Q2)

The predictive relevance (Q^2) of the model was assessed using the blindfolding procedure. A Q^2 value greater than zero for an endogenous construct indicates that the model has predictive relevance for that construct. According to Hair et al. (2019), Q^2

values of 0.02, 0.25, and 0.50 suggest small, medium, and large predictive accuracy, respectively.

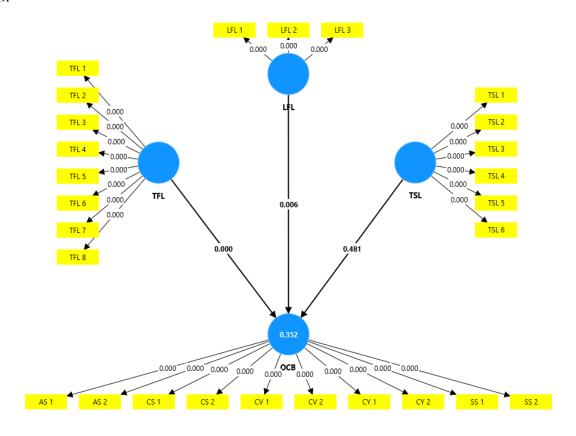
As shown in Table 1–13, the Q² value for OCB is 0.347, indicating moderate to large predictive relevance. This confirms that the model is capable of accurately predicting the endogenous variable (OCB).

Table 1-13 Predictive Relevance (Q2) for Endogenous Construct

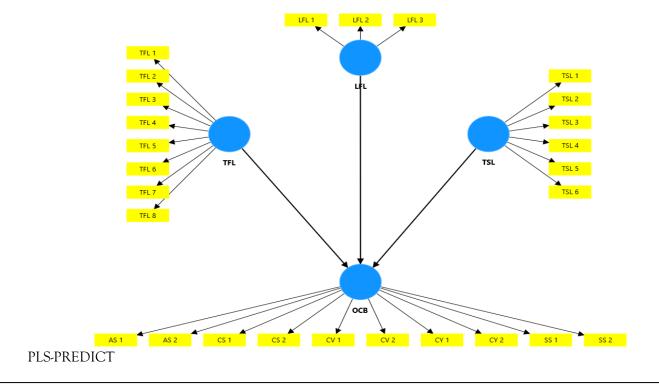




PLS-SEM



PLS-BT





Correlation Analysis

Table 1–15 presents the Pearson correlation results between leadership style (LS) dimensions and Organizational Citizenship Behavior (OCB). The findings indicate a moderate positive and significant relationship between transformational leadership (TFL) and OCB (r = 0.585, p = 0.000). Similarly, transactional leadership (TSL) also shows a moderate positive and significant correlation with OCB (r = 0.598, p = 0.000). Meanwhile, laissez-faire leadership

(LFL) is found to have a low positive but significant correlation with OCB (r = 0.604, p = 0.000).

These findings suggest that transformational and transactional leadership styles significantly contribute to the exhibition of OCB among teachers, with both styles moderately enhancing their discretionary behaviors. Although LFL also shows a significant association with OCB, the strength of the relationship is relatively weaker.

Table 1-15 Correlation between Leadership Styles and Organizational Citizenship Behavior

Leadership Style	Pearson Correlation (r)	Significance (2-tailed)	N
TFL	0.585**	0.000	1000
TSL	0.598**	0.000	1000
LFL	0.604**	0.000	1000

Note: p < 0.01 (2-tailed), significant at the 0.01 level.

Hypothesis Testing

H1: Transformational leadership style has a positive and significant effect on Organizational Citizenship Behavior.

As shown in Table 1-16, the path coefficient for LS \rightarrow OCB is β = 0.328, with a t-statistic = 9.764 and p = 0.000, indicating a positive and significant relationship. Therefore, H1 is supported.

Table 1-16 Hypothesis Testing for LS \rightarrow OCB

Path	β	t-Statistic	p-Value	Decision
$LS \rightarrow OCB$	0.328	9.764	0.000	Supported

Discussion

The results of this study affirm that leadership style is positively and significantly associated with the Organizational Citizenship Behavior (OCB) of teachers. This aligns with the findings of Nivya and Kalpana (2022) and Paculaba and Mangila (2020), who also observed that effective leadership enhances discretionary behaviors among employees.

Furthermore, the current study found that all three dimensions of leadership—transformational, transactional, and laissez-faire—are positively and significantly correlated with OCB. Similar observations were reported by Arif and Khan (2022) in the context of Pakistani public schools, and by Muthunayaka and Nishanthi (2019) in Sri Lanka's apparel industry.

Transformational and transactional leadership styles emerged as **more effective** in enhancing teachers' OCB compared to laissez-faire leadership. These results echo the conclusions drawn by Hamdi et al. (2021), who noted that extra-role behavior is significantly related to transformational and transactional leadership styles in Iraqi secondary schools. Likewise, Mekpor and Dartey-Baah (2020) highlighted the effectiveness of these leadership styles in promoting OCB within Ghana's banking sector.

Notably, transformational leadership appeared to be the most influential style in predicting OCB among teachers. This is consistent with previous studies (Ertuğrul & Yenidoğan, 2020; Frangieh & Popescu, 2020; Purwanto et al., 2021), which found that transformational leaders inspire confidence, promote autonomy, and foster a deep sense of purpose among their teams. Supriyanto et al. (2020) also emphasized the role of transformational leadership in stimulating creativity, collaboration, and voluntary organizational support.



Conclusion

Based on the study's findings, it is evident that leadership styles have a significant and positive influence on teachers' Organizational Citizenship Behavior. All three styles—transformational, transactional, and laissez-faire—demonstrated positive 7. correlations with OCB. This underscores the importance of leadership in shaping behaviors that extend beyond formal job roles for the benefit of educational institutions.

Among the three, transformational leadership had 8. the most substantial impact, highlighting the value of vision-driven, motivational, and supportive leadership in fostering commitment and proactive behaviors. Transactional leadership was also particularly through its emphasis performance standards, and reward mechanisms. Interestingly, laissez-faire leadership, though generally viewed as passive, exhibited a significant relationship with OCB-potentially reflecting how autonomy and trust can empower teachers to engage voluntarily in supportive organizational actions.

In conclusion, leadership style plays a **critical role in encouraging OCB**, regardless of whether it is active, structured, or passive. Educational leaders must be strategic in adopting the appropriate style based on context and desired outcomes.

Recommendations

4.

- Invest in Leadership Development: 1. Organizations should design and implement comprehensive training programs that develop both transformational and transactional leadership skills. Such programs should focus on vision-setting, communication, emotional intelligence, and performance management.
- 3. Evaluate Leadership Effectiveness Regularly: Incorporate OCB-related metrics into performance appraisal systems to assess how leadership styles contribute to promoting discretionary employee behavior.
- 5. Contextualize Leadership Approaches: Leaders should be trained to adapt their style—transformational, transactional, or laissez-faire—based on institutional goals, teacher needs, and contextual dynamics to maximize engagement.

Align Institutional Values with Leadership Behaviors:

Core institutional values should be re-examined and aligned with desired leadership behaviors to embed a culture that supports OCB and academic excellence.

Ensure Leadership Accountability: Establish mechanisms for holding leaders accountable for modeling desired leadership styles, thereby reinforcing trust, transparency, and consistency within the organization.

Recognize and Reward Effective Leadership: Formal recognition should be given to leaders who exhibit effective leadership behaviors that foster employee commitment and OCB. This encourages others to emulate such practices.

References

- Ababneh, K. I., & Hackett, R. D. (2019). The direct and indirect impacts of job characteristics on faculty organizational citizenship behavior in the United Arab Emirates (UAE). *Higher Education*, 77(1), 19-36.
- bas, N. I., Sawitri, H. S. R., & Puspawati, D. (2019).

 Transformational leadership, job performance, and organizational citizenship behavior: Mediating role of work engagement.

 Sriwijaya International Journal of Dynamic Economics and Business, 2(4), 363-376.
- Abasilim, U., Gberevbie, D., & Osibanjo, O. (2019). Leadership styles and employees' commitment: Empirical evidence from Nigeria. SAGE Open, 9(3), 2158244019866287.
- Abdullah, N. A. (2020). The State of Education in Pakistan: An Analytical Review of Basic Education Indicators. *New Horizons* (1992-4399), 14(1).
- Abdullahi, A. Z., Anarfo, E. B., & Anyigba, H. (2020). The impact of leadership style on organizational citizenship behavior: does leaders' emotional intelligence play a moderating role? *Journal of Management Development*.
- Aboramadan, M., & Kundi, Y. M. (2020). Does transformational leadership better predict work-related outcomes than transactional leadership in the NPO context? Evidence from



- Italy. Voluntas: International Journal of Voluntary and Nonprofit Organizations, 31(6), 1254-1267.
- Abror, A., & Patrisia, D. (2020). Psychological Safety and Organisational Performance: A Systematic Literature Review. *Personality and Social Psychology Review*, 16, 7-21.
- Adnans, A. A., Hadiyani, S., Zahreni, S., & Fahmi, F. (2021). Organizational citizenship behavior on nurses: the role of organizational climate and commitment. *Jurnal Organisasi dan Manajemen*, 17(1), 32-41.
- Aeknarajindawat, N., & Jermsittiparsert, K. (2020).

 Does Organization Justice Influence the Organization Citizenship Behavior, Job Satisfaction & Organization Outcomes?

 Systematic Reviews in Pharmacy, 11(1), 489-496.
- Agegnehu, W., Abdissa, D., & Alemayehu, D. (2022). Confirmatory and Exploratory Factor Analysis for Validating Allen and Meyer Organizational Commitment Questionnaire for Health Professionals in Ethiopia—Amharic Language. *Journal of Healthcare Leadership*, 99-111.
- Ahmad, A. R., Keerio, N., Jameel, A. S., & Karem, M. A. (2020). The Relationship between National Culture and Succession Planning in Malaysian Public Universities. *Journal of Education and E-Learning Research*, 7(3), 242-249.
- Ahmad, S., & Shahid, M. S. (2020). Predicting Organizational Citizenship Behavior among Universities' Contractual Teaching Staff: A Developing Country Perspective. Review of Applied Management and Social Sciences, 3(3), 459-473.
- Ajayi, L., & Adebayo, A. T. (2021). Structural Equation Model (SEM). Am. J. Humanit. Soc. Sci. Res, 5, 11-19.
- Akhtar, R., & Nazarudin, M. (2020). Synthesizing the literature of leadership, job satisfaction, and trust in leadership. *Afr J Hosp Tourism Leisure*, 9, 1-16.
- Al-Emran, M., Mezhuyev, V., & Kamaludin, A. (2019). PLS-SEM in information systems research: a comprehensive methodological reference. Paper presented at the Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2018 4.

- Al-Jabari, B., & Ghazzawi, I. (2019). Organizational Commitment: A Review of the Conceptual and Empirical Literature and a Research Agenda. International Leadership Journal, 11(1).
- Al-Mamary, Y. H. S. (2021). The impact of transformational leadership on organizational citizenship behaviour: Evidence from Malaysian higher education context. *Human Systems Management*(Preprint), 1-13.
- Al Khajeh, E. H. (2018). Impact of leadership styles on organizational performance. *Journal of Human Resources Management Research*, 2018, 1-10.
- Al Zeer, I., Alkhatib, A. A., & Alshrouf, M. (2019).

 Determinants of Organisational Commitment of Universities' Employees. International Journal of Academic Research in Accounting, Finance and Management Sciences, 9(1), 136-141.
- Alemayehu, A., & Batisa, S. (2020). The Effect of Leadership Style on Employee's Organizational Commitment: The Case of Wolaita and Dawro Zone Transport Private Limited Companies. International journal of research in business studies and management, 7(1), 12-21.
- Alharahsheh, H. H., & Pius, A. (2020). A review of key paradigms: Positivism VS interpretivism. Global Academic Journal of Humanities and Social Sciences, 2(3), 39-43.
- Ali, M. S., Siddique, M., Siddique, A., Abbas, M., & Ali, S. (2021). Teachers'citizenship Behavior As A Predictor of Teaching Performance: Evidence from Pakistani Context.
- Alrowwad, A., Almajali, D., Masa'deh, R. E., Obeidat, B., & Aqqad, N. (2019). The Role of Organizational Commitment in Enhancing Organizational Effectiveness.
- Alwi, M., Wiyono, B. B., Bafadal, I., & Imron, A. (2021). The Relationship between Personality, Attitude, and Organizational Citizenship Behavior of Senior High School Teachers in Indonesia. *International Journal of Instruction*, 14(2), 345-368.
- ndrade, C. (2020). Sample size and its importance in research. *Indian journal of psychological medicine*, 42(1), 102-103.



- Andres, L. (2012). Designing and doing survey research: Sage.
- Antonakis, J., & House, R. J. (2013). The full-range leadership theory: The way forward Transformational and charismatic leadership: The road ahead 10th anniversary edition (Vol. 5, pp. 3-33): Emerald Group Publishing Limited.
- Aprilani, D., Rivai, F., Maidin, A., Noor, N. B., Muhammad, L., & Hamzah, H. (2021). The Effect of Perceived Organizational Support and Organizational Commitment to Organizational Citizenship Behavior Nurse Dr. Tadjuddin Chalid. Turkish Journal of Computer and Mathematics Education Vol, 12(12), 4138-4146.
- Arain, S. S., Arshad, M., & Ahmed, G. (2019). Institutional Problems Diminishing Quality of Secondary Education in Sindh: Teachers' Sentiments. *Indian Journal of Science and Technology*, 12, 15.
- Arenas, F., Connelly, D., & Williams, M. (2018). Developing Your Full Range of Leadership: Air University Press, Maxwell AFB.
- Arif, M., & Khan, U. A. (2022). Impact of Leadership Behaviour of Secondary School Heads on Organizational Citizenship Behaviour of Teachers. *The Dialogue*, 17(2), 81-95.
- Arumi, M. S., Aldrin, N., & Murti, T. R. (2019). Effect of organizational culture on organizational citizenship behavior with organizational commitment as a mediator. International Journal of Research in Business and Social Science, 8(4), 124-132.
- Asenahabi, B. M. (2019). Basics of research design: A guide to selecting appropriate research design. International Journal of Contemporary Applied Researches, 6(5), 76-89.
- Asgari, A., Mezginejad, S., & Taherpour, F. (2020). The role of leadership styles in organizational citizenship behavior through the mediation of perceived organizational support and job satisfaction. *Innovar*, 30(75), 87-98.
- Avolio, B. J. (2010). Full range leadership development: Sage Publications.
- Azam, O., Khan, H. G. A., Khan, A., & Khan, A. Z. (2019). Impact of Passive Leadership on Organizational Citizenship Behavior and Turnover Intentions; Mediating Effect of

- Organizational Interpersonal Trust. Review of Economics and Development Studies, 5(4), 663-674.
- Azmy, A. (2021). Implications of Job Satisfaction, Organizational Commitment, and Organizational Culture on Organizational Citizenship Behavior in Electrical Professional Organizations in Indonesia. *International Journal of Applied Business Research*, 151-168.
- Babbie, E. R. (1990). Survey research methods Wadsworth Pub. Co Belmont, Calif, 3(9), 31-50.
- Bajcar, B., & Babiak, J. (2022). Transformational and Transactional Leadership in the Polish Organizational Context: Validation of the Full and Short Forms of the Multifactor Leadership Questionnaire. Frontiers in psychology, 13.
- Bareket-Bojmel, L., Shahar, G., & Margalit, M. (2021). COVID-19-related economic anxiety is as high as health anxiety: findings from the USA, the UK, and Israel. *International journal of cognitive therapy*, 14, 566-574.
- Bass, B. M., & Bass, R. (2008). Handbook of leadership: Theory, research, and application: Free Press.
- Batista-Foguet, J. M., Esteve, M., & van Witteloostuijn, A. (2021). Measuring leadership an assessment of the Multifactor Leadership Questionnaire. *Plos one*, 16(7), e0254329.
- Bello, A. B., & Karupiah, P. (2022). Dispositional dimension of trust on customer interaction with the banking sector: A smartpls approach. *International Journal of Business and Society*, 23(2), 877-894.
- Berndt, A. E. (2020). Sampling methods. *Journal of Human Lactation*, 36(2), 224-226.
- BIEK. (2023). 1/1/2023, from https://www.biek.edu.pk/gmaleCol.asp
- Bismala, L. (2019). Factors Affecting Organizational Citizenship Behavior: A Literature Review.
- Blakely, G. L., Andrews, M. C., & Moorman, R. H. (2005). The moderating effects of equity sensitivity on the relationship between organizational justice and organizational citizenship behaviors. *Journal of Business and*



- Psychology, 20(2), 259-273. Blau, P. (1964). Exchange and Power In Social Life.
- Blau, P. M. (2017). Exchange and power in social life: Routledge.
- Bodjrenou, K., Xu, M., & Bomboma, K. (2019). Antecedents of organizational commitment: a review of personal and organizational factors. Open Journal of Social Sciences, 7(5), 276-289.
- Borgas, K. (2020). The Role of POS in the Relationship between Organizational Commitment and Organizational Citizenship Behavior. Northcentral University.
- Borgstede, M., & Scholz, M. (2021). Quantitative and qualitative approaches to generalization and replication–A representationalist view. *Frontiers in psychology*, *12*, 605191.
- Braathu, N., Laukvik, E. H., Egeland, K. M., & Skar, A.-M. S. (2022). Validation of the Norwegian versions of the Implementation Leadership Scale (ILS) and Multifactor Leadership Questionnaire (MLQ) in a mental health care setting. BMC psychology, 10(1), 25.
- Breevaart, K., Bakker, A., Hetland, J., Demerouti, E., Olsen, O. K., & Espevik, R. (2014). Daily transactional and transformational leadership and daily employee engagement. *Journal of occupational and organizational psychology*, 87(1), 138-157.
- Brodie, M. L. (2019). What is data science? Applied Data Science: Lessons Learned for the Data-Driven Business, 101-130.
- Browning, M. (2018). Self-leadership: Why it matters. *International Journal of Business and Social Science*, 9(2), 14-18.
- BSEK. (2023). Retrieved 1/1/2023, 2023, from https://bsek.edu.pk/schools
- Bulatova, J. (2015). The Role of Leadership in Creation of Organisational Trust. *Journal of Business Management*(9).
- Cao, T., Huang, X., Wang, L., Li, B., Dong, X., Lu, H., Shang, S. (2020). Effects of organisational justice, work engagement and nurses' perception of care quality on turnover intention among newly licensed registered nurses: a structural equation modelling approach. *Journal of Clinical Nursing*, 29(13-14), 2626-2637.

- Casteel, A., & Bridier, N. (2021). Describing Populations and Samples in Doctoral Student Research. *International Journal of Doctoral Studies*, 16, 339-362.
- Casteel, A., & Bridier, N. L. (2021). Describing Populations and Samples in Doctoral Student Research. *International Journal of Doctoral Studies*, 16(1).
- Chegini, Z., Janati, A., Asghari-Jafarabadi, M., & Khosravizadeh, O. (2019). Organizational commitment, job satisfaction, organizational justice and self-efficacy among nurses. *Nursing Practice Today*, 6(2), 86-93.
- Cherry, K. (2022, 25/2/2022). What Is the Social Exchange Theory? Retrieved 6/6/2022, 2022, from https://www.verywellmind.com/what-is-social-exchange-theory2795882#:~:text=Social%20exchange% 20theory%20proposes%20that,and%20risks% 20of%20social%20relationships.
- Comrey, A., & Lee, H. (1992). Interpretation and application of factor analytic results. Comrey AL, Lee HB. A first course in factor analysis, 2, 1992.
- Cook, K., Cheshire, C., Rice, E., & Nakagawa, S. (2013). Social Exchange Theory (pp. 61-88).
- Cook, K. S., & Emerson, R. M. (1987). Social exchange theory.
- Cropanzano, R., Anthony, E., Daniels, S., & Hall, A. (2017). Social Exchange Theory: A Critical Review with Theoretical Remedies. *The Academy of Management Annals*, 11, 1-38. doi: 10.5465/annals.2015.0099
- Cropanzano, R., & Byrne, Z. S. (2000). Workplace justice and the dilemma of organizational citizenship.
- Cropanzano, R., & Mitchell, M. S. (2005). Social exchange theory: An interdisciplinary review. *Journal of management*, 31(6), 874-900.
- Crossman, A. (2020, 29/8/2022). Understanding Social Exchange Theor. Retrieved 6/6/2022, 2022, from https://www.thoughtco.com/social-exchange-theory-3026634



- Dalkin, S., Forster, N., Hodgson, P., Lhussier, M., & Carr, S. M. (2021). Using computer assisted qualitative data analysis software (CAQDAS; NVivo) to assist in the complex process of realist theory generation, refinement and testing. *International Journal of Social Research Methodology*, 24(1), 123-134.
- Daniëls, E., Hondeghem, A., & Dochy, F. (2019). A review on leadership and leadership development in educational settings. *Educational research review*, 27, 110-125.
- Dappa, K., Bhatti, F., & Aljarah, A. (2019). A study on the effect of transformational leadership on job satisfaction: The role of gender, perceived organizational politics and perceived organizational commitment. *Management Science Letters*, 9(6), 823-834.
- Dartey-Baah, K., Anlesinya, A., & Lamptey, Y. (2019). Leadership behaviors and organizational citizenship behavior: the mediating role of job involvement.
- Dash, G., & Paul, J. (2021). CB-SEM vs PLS-SEM methods for research in social sciences and technology forecasting. *Technological Forecasting and Social Change*, 173, 121092.
- Deckop, J. R., Mangel, R., & Cirka, C. C. (1999). Getting more than you pay for: Organizational citizenship behavior and pay-for-performance plans. Academy of Management journal, 42(4), 420-428.
- Demirel, Y., Elhusadi, I., & Alhasadi, A. (2018). The Relationship between Organizational Citizenship Behavior and Organizational Factors. *International Journal of Business and Management Invention (IJBMI)*, 7(3), 27-39.
- Demirtas, Ö., Bickes, D. M., Yener, S., & Karaca, M. (2020). The influence of transformational leadership in organizations: The mediating role of meaningful work. *Journal of Economy Culture and Society*(61), 153-172.
- Deressa, B., Kebebe, A., Bezane, B., Jabessa, M., Wayessa, G., Kebede, A., Demissie, Y. (2022). The Relationship Between Organizational Commitment and Organizational Justice Among Health Care Workers in Ethiopian Jimma Zone Public Health Facilities. *Journal of*

- Healthcare Leadership, 14, 5-16. doi: https://doi.org/10.2147/JHL.S345528
- Devi, B. S. N. (2022). The Mediation Effect of Job Satisfaction in the Relation of Organizational Commitment and Organizational Citizenship Behavior.
- Djaelani, A. K., Sanusi, A., & Triatmanto, B. (2021). Spiritual leadership, job Satisfaction, and its effect on organizational commitment and organizational citizenship behavior. *Management Science Letters*, 11(3), 3907-3914.
- Donglong, Z., Taejun, C., Julie, A., & Sanghun, L. (2020). The structural relationship between organizational justice and organizational citizenship behavior in university faculty in China: the mediating effect of organizational commitment. Asia Pacific Education Review, 21(1), 167-179.
- Donkor, F. (2021). Linking Leadership Styles to Employee Performance in the Public Sector Organizations in Ghana: The Role of Organizational Commitment. *International Journal of Business and Management*, 16(5).
- Donkor, F., Dongmei, Z., & Sekyere, I. (2021). The Mediating Effects of Organizational Commitment on Leadership Styles and Employee Performance in SOEs in Ghana: A Structural Equation Modeling Analysis. SAGE Open, 11(2), 21582440211008894. doi: 10.1177/21582440211008894
- Donkor, F., & Zhou, D. (2020). Organisational commitment influences on the relationship between transactional and laissez-faire leadership styles and employee performance in the Ghanaian public service environment. *Journal of Psychology in Africa*, 30(1), 30-36.
- Dorji, C., & Kaur, K. (2019). The impact of organizational justice on organizational commitment: A perception study on teachers of Bhutan. *International Journal of Recent Technology and Engineering*, 7(6).
- Edwards, A. M. (2023). Ethical Leadership and Ethical Work Climate: The Mediating and Moderating Roles of Perceived Leader Integrity, Organizational Justice, and Trust Propensity, Comprising Workplaces from 14 Eastern US States and the District of Columbia. Trident University International.



- El Maalmi, A., Jenoui, K., & El Abbadi, L. (2021).

 Comparison Study Between CB-SEM and PLS-SEM for Sustainable Supply Chain Innovation Model. Paper presented at the International Conference on Advanced Technologies for Humanity.
- Enayat, T., Mehrani Ardebili, M., Kivi, R., Amjadi, B., & Jamali, Y. (2020). A Computational Approach to Homans Social Exchange Theory.
- Ertuğrul, K., & Yenidoğan, Ö. (2020). The Effect of Transformational Leadership Style on Organizational Citizenship Behavior of Employees. Euroasia Journal of Social Sciences & Humanities, 7(15), 71-83.
- Esen, Ş., & Keskin, Ö. (2019). The Effect of Organizational Justice Perception of Bank Personnel on Their Organizational Commitment Level.
- Fan, L., Mahmood, M., & Uddin, M. (2019). Supportive Chinese supervisor, innovative international students: A social exchange theory perspective. Asia Pacific Education Review, 20(1), 101-115.
- Farid, T., Igbal, S., Ma, J., Castro-González, S., Khattak, A., & Khan, M. K. (2019). Employees' Perceptions of CSR, Work Engagement, and Organizational Citizenship Behavior: The Mediating Effects Organizational Justice. International Journal of Environmental Research and Public Health, 16(10), 1731. Farooq, N., Waseem, M., Hussain, B., Igbal, N., Nawaz, A., & Khan, A. (2021). Impact of Knowledge Sharing Culture on Organizational Citizenship Behavior Mediating Role of Organizational Commitment. Elementary Education Online, 20(5), 4584-4584.
- Fazriyah, M., Hartono, E., & Handayani, R. (2019). The Influence of Job Satisfaction and Organizational Commitment on Organizational Citizenship Behavior.
- Febrian, A. (2021). Examining the Contribution of Transformational Leadership Style and Affective Commitment to Organizational Citizenship Behavior (OCB). Ekonomika Syariah: Journal of Economic Studies, 5(1), 59-71.

- Fitrio, T., Apriansyah, R., Utami, S., & Yaspita, H. (2019). The effect of job satisfaction to organizational citizenship behavior (OCB) mediated by organizational commitment. International Journal of Scientific Research and Management, 7(09), 1300-1310.
- Fornell, C., & Larcker, D. F. (1981). Evaluating structural equation models with unobservable variables and measurement error. *Journal of marketing research*, 18(1), 39-50.
- Forte, J. D. (2015). Principal leadership style and teacher commitment in the Indiana school choice scholarship program environment: Indiana Wesleyan University.
- Frangieh, M., & Popescu, D. (2020). The Role Of Leadership In Instilling Organization Citizenship Behavior. Paper presented at the Proceedings of the International Management Conference.
- French, D. G., Bloksberg, L., Mogulof, M., & Stern, W. (1964). Homans' theory of the human group: Applications to problems of administration, policy, and staff training in group service agencies. *Journal of Jewish Communal Service*, 40(4), 379-395.
- Frost, J. (2023). Stratified Sampling: Definition, Advantages & Examples. Retrieved from https://statisticsbyjim.com/basics/stratified-sampling/#comments
- Gamage, P. (2020). Organizational Justice and Organizational Citizenship Behavior: The Mediating Role of Organizational Commitment.
- Georges, F. T. (2020). Organisational Commitment: A Review of the Evolution from Side-Bets to the Three-Component Conceptualisation Model. Global Journal of Management And Business Research.
- Grego-Planer, D. (2019a). The relationship between organizational commitment and organizational citizenship behaviors in the public and private sectors. Sustainability, 11(22), 6395.
- Grego-Planer, D. (2019b). The Relationship between Organizational Commitment and Organizational Citizenship Behaviors in the Public and Private Sectors. Sustainability, 11, 6395. doi: 10.3390/su11226395



- Guhr, N., Lebek, B., & Breitner, M. H. (2019). The impact of leadership on employees' intended information security behaviour: An examination of the full-range leadership theory. *Information Systems Journal*, 29(2), 340-362.
- Guillet, E., Sarrazin, P., Carpenter, P. J., Trouilloud, D., & Cury, F. (2002). Predicting persistence or withdrawal in female handballers with social exchange theory. *International Journal of Psychology*, 37(2), 92-104.
- Gul, S., & Shah, D. (2019). Issues Confronted by Teachers' Education in Pakistan. *education*, 3(1), 29-32. Gün, I., Söyük, S., & Memiş, K. (2021). Effects of Organizational Justice on Organizational Citizenship Behavior: A Public Hospital Case. *Social Sciences Studies Journal*, 7, 2581-2590. doi: 10.26449/sssj.3295
- Güneş, A., & Küçüksüleymanoğlu, R. (2020). Öğretmenlerin örgütsel adalet algıları ile örgütsel vatandaşlık davranışları arasındaki ilişki. Yaşadıkça Eğitim, 34(2), 313-330.
- Hadijah, H. S., Winata, H., & Fachrezy, R. A. (2019). Effectiveness of Transformational Leadership and OCB at Vocational High School in Bandung. Paper presented at the 1st International Conference on Economics, Business, Entrepreneurship, and Finance (ICEBEF 2018).
- Hair, J., & Alamer, A. (2022). Partial Least Squares Structural Equation Modeling (PLS-SEM) in second language and education research: Guidelines using an applied example. *Research Methods in Applied Linguistics*, 1(3), 100027.
- Hair, J., Hult, G. T. M., Ringle, C., Sarstedt, M., Danks, N., & Ray, S. (2021). An Introduction to Structural Equation Modeling (pp. 1-29).
- Hair, J. F., Hult, G. T. M., Ringle, C. M., Sarstedt,
 M., Danks, N. P., & Ray, S. (2021). An Introduction to Structural Equation Modeling. In J. F. Hair Jr, G. T. M. Hult, C. M. Ringle, M. Sarstedt, N. P. Danks & S. Ray (Eds.), Partial Least Squares Structural Equation Modeling (PLS-SEM) Using R: A Workbook (pp. 1-29). Cham: Springer International Publishing.

- Hair, J. F., Ringle, C. M., & Sarstedt, M. (2011).

 PLSSEM: Indeed a Silver Bullet Journal of Marketing Theory and Practice, 19 (2) pages 139-152, doi: 10.2753. MTP1069-6679190202.
- Hair, J. F., Risher, J. J., Sarstedt, M., & Ringle, C. M. (2019). When to use and how to report the results of PLS-SEM. *European business review*, 31(1), 2-24.
- Hair Jr, J. F., Hult, G. T. M., Ringle, C. M., & Sarstedt, M. (2021). A primer on partial least squares structural equation modeling (PLS-SEM): Sage publications.
- Hair Jr, J. F., Hult, G. T. M., Ringle, C. M., Sarstedt, M., Danks, N. P., & Ray, S. (2021). Partial least squares structural equation modeling (PLS-SEM) using R: A workbook: Springer Nature.
- Haldorai, K., Kim, W. G., Chang, H. S., & Li, J. J. (2020). Workplace spirituality as a mediator between ethical climate and workplace deviant behavior. *International Journal of Hospitality* Management, 86, 102372.
- Hamdi, S. S., Jameel, A. S., Massoudi, A. H., & Ahmad, A. R. (2021). Leadership Style and Organizational Citizenship Behavior in Secondary Schools. Paper presented at the 3rd International Conference on Administrative & Financial Sciences (ICAFS 2021).
- Hameed Al-ali, A., Khalid Qalaja, L., & Abu-Rumman, A. (2019). Justice in organizations and its impact on Organizational Citizenship Behaviors: A multidimensional approach. Cogent Business & Management, 6(1), 1698792.
- Hasyim, A. F., & Palupiningdyah, P. (2021).

 Organizational Justice and Organizational
 Citizenship Behavior: The Mediating Roles of
 Organizational Commitment and Leader
 Member Exchange. Management Analysis
 Journal, 10(1), 1-10.
- Hayat, A. A., Shateri, K., Kamalian Fard, S., Sabzi Shahr Babak, E., & Faraji Dehsorkhi, H. (2023). Psychometric properties of the persian version of the physician teaching self-efficacy questionnaire. BMC Medical Education, 23(1), 1-9.



- HEC. (2018). Retrieved 1/1/2023, from chrome-extension://efaidnbmnnnibpcajpcglclefindmk aj/https://www.hec.gov.pk/english/services/students/PCD/Documents/UniversityFulltime Faculty.pdf
- Henseler, J., Ringle, C. M., & Sarstedt, M. (2015). A new criterion for assessing discriminant validity in variance-based structural equation modeling. *Journal of the academy of marketing science*, 43, 115-135.
- Herr, R. M., Bosch, J. A., Loerbroks, A., Genser, B., Almer, C., van Vianen, A. E., & Fischer, J. E. (2018). Organizational justice, justice climate, and somatic complaints: A multilevel investigation. *Journal of psychosomatic research*, 111, 15-21.
- Honarvar, B., Lankarani, K. B., Kharmandar, A., Shaygani, F., Zahedroozgar, M., Rahmanian Haghighi, M. R., Salavati, Z. (2020). Knowledge, attitudes, risk perceptions, and practices of adults toward COVID-19: a population and field-based study from Iran. *International journal of public health*, 65, 731-739.
- Huda, S. A. (2019). Organizational Citizenship Behavior Teachers in Indonesia. *JISAE: Journal of Indonesian Student Assessment and Evaluation*, *5*(2), 13-25. Hussain, M. W., Ibrahim, Z., & Noor, S. M. (2019). Organization Justice and Its Impact on Organization Commitment through Perceived organizational support. *Page* | *i*, 60.
- Iliyasu, R., & Etikan, I. (2021). Comparison of quota sampling and stratified random sampling. *Biom. Biostat. Int. J. Rev.*, 10, 24-27.
- Imamoglu, S. Z., Ince, H., Turkcan, H., & Atakay, B. (2019). The effect of organizational justice and organizational commitment on knowledge sharing and firm performance. *Procedia Computer Science*, 158, 899-906.
- In, J. (2017). Introduction of a pilot study. *Korean Journal of Anesthesiology*, 70, 601. doi: 10.4097/kjae.2017.70.6.601

- Indahyati, N., & Sintaasih, D. K. (2019). The relationship between organizational justice with job satisfaction and organizational citizenship behavior. *International research journal of management, IT and social sciences*, 6(2), 63-71.
- Iqbal, K., Fatima, T., & Naveed, M. (2019). The impact of transformational leadership on nurses' organizational commitment: A multiple mediation model. European Journal of Investigation in Health, Psychology and Education, 10(1), 262-275.
- Jaadi, Z. (2019). Everything you need to know about interpreting correlations. 2023, from https://medium.com/@zakaria.jaadi
- Jaiswal, R., Raychaudhuri, D., & Akhtar, B. (2020). The Evolution & Development of the Concept of Organizational Commitment: A Critical and Comprehensive Review of Literature. *PBME*, 152. Jameel, A. S., Ahmad, A. R., & Mousa, T. S. (2020). Organizational justice and job performance of academic staff at public universities in Iraq. *Skyline Business Journal* (2020), 16(1), 13-29.
- Jameel, A. S., Hamdi, S. S., Abdul-Karem, M., & Ahmad, A. R. (2020). Organizational Justice and Job satisfaction among nurses. *UKH Journal of Social Sciences*, 4(2), 61-69.
- Jameel, A. S., Mahmood, Y. N., & J Jwmaa, S. (2020).

 Organizational justice and organizational commitment among secondary school teachers.
- Jami, M. S., & Agha, A. M. Q. (2022). The Relationship between Organizational Justice and Organizational Citizenship Behavior. Cihan University-Erbil Journal of Humanities and Social Sciences, 6(1), 1-5.
- Jang, J., Lee, D. W., & Kwon, G. (2021). An analysis of the Influence of organizational justice on organizational commitment. *International Journal of Public Administration*, 44(2), 146-154.
- Jehanzeb, K., & Mohanty, J. (2019a). The mediating role of organizational commitment between organizational justice and organizational citizenship behavior. *Personnel Review*.



- Jehanzeb, K., & Mohanty, J. (2019b). The mediating role of organizational commitment between organizational justice and organizational citizenship behavior: Power distance as moderator. *Personnel Review*.
- Jehanzeb, K., & Mohanty, J. (2020). The mediating role of organizational commitment between organizational justice and organizational citizenship behavior: Power distance as moderator. *Personnel Review*, 49(2), 445-468.
- Jekelle, H. E. (2021). Leadership Styles Dimensions and Organizational Commitment Nexus: Evidence from a Public Sector in Nigeria. *Journal of Economics and Business*, 4(1).
- John, S., Shah, N. H., Ihsan, A., Ali, A., & Tariq, M. N. (2022). Impact Of Transformational Leadership On Job Performance Of Public Sector Schools' Teachers, Pakistan: Mediating Role Of Job Satisfaction And Work Engagement. *Journal of Positive School Psychology*, 6(9), 2773-2786.
- Junru, X., & Huang, Y.-J. (2019). The Influence of Teachers' Perceived Organizational Justice on Organizational Citizenship Behavior in Chinese Private Universities: Mediate Role of Job Satisfaction. International Journal of Organizational Innovation (Online), 12(1), 295-303.
- Kanat-Maymon, Y., Elimelech, M., & Roth, G. (2020). Work motivations as antecedents and outcomes of leadership: Integrating self-determination theory and the full range leadership theory. European Management Journal, 38(4), 555-564.
- Kang, S. P., Byun, J., Law, V., Seo, Y. K., & Ferris, K. (2020). Adaptation and Validation of the Measure of Organizational Citizenship Behavior in Collaborative Learning. *Knowledge Management & E-Learning*, 12(3), 280-297. Karacabey, M. F., Bellibaş, M. Ş., & Adams, D. (2022). Principal leadership and teacher professional learning in Turkish schools: Examining the mediating effects of collective teacher efficacy and teacher trust. *Educational studies*, 48(2), 253-272.

- Karem, M. A., Jameel, A. S., & Ahmad, A. R. (2019). The impact of organizational justice dimensions on organizational commitment among bank employees. *International Journal of Psychosocial Rehabilitation*, 23(02), 502-513.
- Karriker, J. H., & Williams, M. L. (2009). Organizational justice and organizational citizenship behavior: A mediated multifoci model. *Journal of management*, 35(1), 112-135.
- Kartono, K., Astuti, R., & Febriyani, L. (2020). Motivation and Job Satisfaction Impact on Organizational Citizenship Behavior.
- Khan, Z. A. (2023, 12/06/2023). Karachi. Retrieved 16/06/2023, 2023, from https://www.britannica.com/place/Karachi
- Khaola, P., & Rambe, P. (2020). The effects of transformational leadership on organisational citizenship behaviour: The role of organisational justice and affective commitment. *Management Research Review*.
- Kindarto, A., Zhu, Y.-Q., & Gardner, D. G. (2020). Full range leadership styles and government it team performance: The critical roles of follower and team competence. *Public Performance & Management Review*, 43(4), 889-917.
- Kollmann, T., Stöckmann, C., Kensbock, J. M., & Peschl, A. (2020). What satisfies younger versus older employees, and why? An aging perspective on equity theory to explain interactive effects of employee age, monetary rewards, and task contributions on job satisfaction. *Human Resource Management*, 59(1), 101-115.
- Konovsky, M. A., & Pugh, S. D. (1994). Citizenship behavior and social exchange. Academy of Management journal, 37(3), 656-669.
- Köse, E., & Yenidoğan, Ö. (2020). The Effect of Transformational Leadership Style on Organizational Citizenship Behaviors of Employees.
- Kumar, M. (2020). Leadership Theories and Concepts.
- Lambe, C. J., Wittmann, C. M., & Spekman, R. E. (2001). Social exchange theory and research on business-to-business relational exchange. *Journal of business-to-business marketing*, 8(3), 1-36.



- Lanier, A. (2020). The Relationship Between Leadership Practices and Organizational Commitment of Telecommunicators: University of Arkansas.
- Lee, Y. H., Woo, B., & Kim, Y. (2018). Transformational leadership and organizational citizenship behavior: Mediating role of affective commitment. *International Journal of Sports Science & Coaching*, 13(3), 373-382.
- Liaquat, M., & Mehmood, K. (2017). Organization citizenship behavior: Notion of social exchange theory. *Journal of Business and Social Review in Emerging Economies*, 3(2), 209-216.
- Lim, A., Loo, J., & Lee, P. (2017). The impact of leadership on turnover intention: The mediating role of organizational commitment and job satisfaction. *Journal of Applied Structural Equation Modeling*, 1(1), 27-41.
- Lönnqvist, K., Flinkman, M., Vehviläinen-Julkunen, K., & Elovainio, M. (2022). Organizational justice among registered nurses: A scoping review. *International Journal of Nursing Practice*, 28(1), e12983.
- Lu, M., Cui, T., Huang, Z., Zhao, H., Li, T., & Wang, K. (2021). A systematic review of questionnaire-based quantitative research on MOOCs. The International Review of Research in Open and Distributed Learning, 22(2), 285-313.
- Lucey, P. A. (2017). Leadership style and organizational citizenship behavior in community-based mental health facilities. Walden University.
- M B, K., & Shivakumar, S. (2020). Examining the relationship between Organizational Commitment and Organizational Citizenship Behavior.
- Mahindreen, S., Abdullah, Q. D. L., & Varatharajoo, K. D. R. (2019). The Influence of Leadership Styles Towards Organizational Commitment. International Journal of Applied and Creative Arts, 2(1), 1-6.
- Majid, U. (2018). Research Fundamentals: Study Design, Population, and Sample Size. Undergraduate Research in Natural and Clinical Science and Technology (URNCST) Journal, 2. doi: 10.26685/urncst.16

- Mangila, B. B., & Paculaba, E. T. (2020). How School Administrators Lead and How Their Teachers Behave: An Investigation on Leadership Styles and Organizational Citizenship Behaviors. Asian Journal of Multidisciplinary Studies, 3(1), 77-84.
- Manshor, R., Muda, M., Salleh, A., Razak, F., & Kamaazura, A. (2020). Assessing the effects of organizational justice on organizational commitment in Malaysia's SME sector. *Journal of Advanced Research in Business and Management Studies*, 2(1), 64-73.
- Masood, S., Siddiqui, G. K., Lodhi, H., & Shahbaz, S. (2020). Effect of leadership styles on organizational citizenship behavior and employee turnover intention. *Journal of Accounting and Finance in Emerging Economies*, 6(2), 487-495.
- Maspero, C., Abate, A., Bellincioni, F., Cavagnetto, D., Lanteri, V., Costa, A., & Farronato, M. (2019). Comparison of a tridimensional cephalometric analysis performed on 3T-MRI compared with CBCT: A pilot study in adults. *Progress in Orthodontics*, 20(1), 1-10.
- Massoudi, A. H., Jameel, A. S., & Ahmad, A. R. (2020). Stimulating organizational citizenship behavior by applying organizational commitment and satisfaction. *International Journal of Social Sciences and Economic Review*, 2(2), 20-27.
- Masterson, S. S., Lewis, K., Goldman, B. M., & Taylor, M. S. (2000). Integrating justice and social exchange: The differing effects of fair procedures and treatment on work relationships. Academy of Management journal, 43(4), 738-748.
- Mazhar, N., & Shirazi, S. A. (2020). The Preliminary study of anthropogenic and natural drivers of desertification in drylands of South Punjab, Pakistan. *International Journal of Economic and Environmental Geology*, 11(1), 102-107.
- McLeod, J., Jenkin, A., Walters, G., & Irving, R. (2021). The role and performance of supporter directors: A social exchange theory perspective. *Sport Management Review*. doi: 10.1080/14413523.2021.1880744



- Mekpor, B., & Dartey-Baah, K. (2020). Beyond the job description: Exploring the mediating role of leaders' emotional intelligence on the nexus between leadership styles and voluntary workplace behaviours in the Ghanaian banking sector. *Journal of Management Development*.
- Memon, M. A., Ting, H., Cheah, J.-H., Thurasamy, R., Chuah, F., & Cham, T. H. (2020). Sample size for survey research: Review and recommendations. *Journal of Applied Structural Equation Modeling*, 4(2), 1-20.
- Meng, Y., Mao, K., & Li, C. (2020). Validation of a short-form five facet mindfulness questionnaire instrument in China. *Frontiers in psychology*, 10, 3031.
- Mengstie, M. M. (2020). Perceived organizational justice and turnover intention among hospital healthcare workers. *BMC psychology*, 8(1), 1-11.
- Mete, E. S., & Sökmen, A. (2019). The Mediating Role of Organizational Commitment in the Organizational Justice's Effect on Job Satisfaction and Turnover Intention: A Research on Academic Staff. Gazi İktisat ve İşletme Dergisi, 5(3), 193-205.
- Mishra, P., Pandey, C. M., Singh, U., Gupta, A., Sahu, C., & Keshri, A. (2019). Descriptive statistics and normality tests for statistical data. *Annals of cardiac anaesthesia*, 22(1), 67.
- Miško, D., Vagaš, M., Birknerová, Z., Tej, J., & Benková, E. (2021). Organizational Commitment of Human Resources in the Context of Leadership Styles in the Organization.
- Moorman, R. H. (1991). Relationship between organizational justice and organizational citizenship behaviors: Do fairness perceptions influence employee citizenship? *Journal of applied psychology*, 76(6), 845.
- Motalebi, P., & Marşap, A. (2020). The role of Job satisfaction, and Organizational commitment as a determinant of organizational citizenship behavior among the workers of welfare organization. SSRG International Journal of Economics and Management Studies (SSRG-IJEMS), 7(1), 102-112.

- Mufti, M., Xiaobao, P., Shah, S. J., Sarwar, A., & Zhenqing, Y. (2020). Influence of leadership style on job satisfaction of NGO employee: The mediating role of psychological empowerment. *Journal of Public Affairs*, 20(1), e1983.
- Muhaise, H., Ejiri, A. H., Muwanga-Zake, J. W. F., & Kareyo, M. (2020). The Research Philosophy Dilemma for Postgraduate Student Researchers. International Journal of Research and Scientific Innovation (IJRSI) |, VII, 202-204.
- Muthunayaka, M., & Nishanthi, H. (2019). The Impact of Leadership Styles on Organizational Citizenship Behavior: A Study of Non-Executive Level Employees in Apparel Industry in Sri Lanka.
- Mwesigwa, R., Tusiime, I., & Ssekiziyivu, B. (2020). Leadership styles, job satisfaction and organizational commitment among academic staff in public universities. *Journal of Management Development*.
- Naghipour, K., Galavandi, H., Alizadeh, M., & Ebrahim, M. (2015). The relationship between perceived organizational justice and organizational commitment: A case study of female teachers. *International Journal of Educational and Psychological Researches*, 1(2), 80.
- Naway, F. A., & Haris, I. (2017). The effect of career development, perception of organizational justice and job satisfaction on teacher's organizational citizenship behavior. International Review of Management and Marketing, 7(2), 17-21.
- Nawaz, A. (2020). Two-way Effects of Organization Citizenship Behaviour in Managing Interpersonal Relationship and Occupational stress Survey of Teachers from Southern Punjab, Pakistan. International Journal of Future Generation Communication and Networking, 13(3), 1111-1117.
- Nguyen, T. H., Van, Q. N., & Tuyet, M. N. T. (2022). An Empirical Study of Principals' Leadership Styles with Faculty Commitment. *Emerging Science Journal*, 6(3), 603-618.



- Niqab, M., Hanson, J., Bangert, A., Kannan, S., Sharma, S., & Ghaffar, A. (2019). Measuring Organizational Citizenship Behaviors (OCB) in Secondary Schools in Pakistan and a Comparison with Factors of a School Growth Mindset Culture. 9, 83. doi: 10.5296/ijld.v9i2.14919
- Nivya, E., & Kalpana, D. (2022). Antecedents of Organizational Citizenship Behavior among IT Professionals in India.
- Novianti, K. R. (2021). Does Organizational Commitment Matter? Linking Transformational Leadership with Organizational Citizenship Behavior (OCB). *Jurnal Aplikasi Manajemen*, 19(2).
- Nurjanah, S., Pebianti, V., & Handaru, A. W. (2020). The influence of transformational leadership, job satisfaction, and organizational commitments on Organizational Citizenship Behavior (OCB) in the inspectorate general of the Ministry of Education and Culture. Cogent Business & Management, 7(1), 1793521.
- Obedgiu, V., Nkurunziza, G., Simiyu, G., & Lubogoyi, B. (2020). An investigation of key predictors of organizational citizenship behavior of civil servants: Empirical evidence from Uganda. International Journal of Organization Theory & Behavior.
- Olley, R. (2021). A focussed literature review of power and influence leadership theories. *Asia Pacific Journal of Health Management*, 16(2), 7-17.
- Oribhabor, C., & Anyanwu, C. (2019). Research Sampling and Sample Size Determination: A practical Application. 2, 47-56.
- Paculaba, E. T., & Mangila, B. B. (2020). How School Administrators Lead and How Their Teachers Behave: An Investigation on Leadership Styles and Organizational Citizenship Behaviors. Asian Journal of Multidisciplinary Studies, 3(1).
- Pakistan Economic Survey. (2020-2021). Retrieved from http://www.finance.gov.pk/survey 2021.html.
- Park, Y. S., Konge, L., & Artino, A. R. (2020). The positivism paradigm of research. *Academic Medicine*, 95(5), 690-694.

- Partina, A., Harsono, M., Sawitri, H., & Haryono, T. (2019). The predictor of organizational citizenship behaviour using social exchange theory. *International Journal of Scientific and Research Publications*, 9(5), 514-518.
- Parveen, F., Zamir, S., & Bibi, A. (2021). A Study of Organizational citizenship Behaviour of Teachers at Secondary School Level. *Pakistan Journal of Educational Research*, 4(2).
- Patras, Y., Sutisna, Entis, & Afif, M. (2020). *Influence of Organizational Justice and Job Satisfaction on Teachers' Organizational Citizenship Behavior*. Paper presented at the 4th Asian Education Symposium (AES 2019).
- Patras, Y., Sutisna, E., & Afif, M. (2020). Influence of Organizational Justice and Job Satisfaction on Teacher's Organizational Citizenship Behavior.
- Pattnaik, S., & Tripathy, S. K. (2019). The Journey of Justice: Recounting Milestones over the Past Six Decades. *Management and Labour Studies*, 44(1), 58-85.
- Perpetua, O., & Aforkeoghene, U. G. (2021).

 Relationship between Principals'
 Organizational Justice and Teachers'
 Organizational Citizenship Behavior in
 Secondary Schools in Delta State International
 Journal of All Research Education and Scientific
 Methods, 9(8), 885-892.
- Perpetua, O., & Godson, A. U. (2021). Relationship between Principals' Organizational Justice and Teachers' Organizational Citizenship Behavior in Secondary Schools in Delta State International Journal of All Research Education and Scientific Methods 9(8), 885-892.
- Pinsonneault, A., & Kraemer, K. (1993). Survey research methodology in management information systems: an assessment. *Journal of management information systems*, 10(2), 75-105.
- Puni, A., Hilton, S. K., & Quao, B. (2020). The interaction effect of transactional transformational leadership on employee commitment in a developing country. *Management Research Review*.



- Purwanto, A. (2021). Partial least squares structural squation modeling (PLS-SEM) analysis for social and management research: a literature review. *Journal of Industrial Engineering & Management Research*.
- Purwanto, A., Purba, J. T., Bernarto, I., & Sijabat, R. (2021). Effect of Transformational Leadership, Job Satisfaction, and Organizational Commitments on Organizational Citizenship behavior. *Inovbiz: Jurnal Inovasi Bisnis*, 9(1), 61-69
- Radosavljević, Ž., Ćilerdžić, V., & Dragić, M. (2017). Employee organizational commitment. International Review(1-2), 18-26.
- Rahman, M., & Karim, D. (2022). Organizational justice and organizational citizenship behavior: The mediating role of work engagement. *Heliyon*, 8, e09450. doi: 10.1016/j.heliyon.2022.e09450
- Rahman, M. H. A., & Karim, D. N. (2022). Organizational justice and organizational citizenship behavior: The mediating role of work engagement. *Heliyon*, e09450.
- Rahman, M. M., Tabash, M. I., Salamzadeh, A., Abduli, S., & Rahaman, M. S. (2022). Sampling techniques (probability) for quantitative social science researchers: a conceptual guidelines with examples. Seeu Review, 17(1), 42-51.
- Rao, H. M., & Zaidi, U. (2020). How different perceived leadership styles have an influence on organisational commitment on tourism smes. *African Journal of Hospitality, Tourism and Leisure*, 9(1), 1-17. Redmond, M. (2015). Social exchange theory.
- Riley, R. D., Snell, K. I., Ensor, J., Burke, D. L., Harrell Jr, F. E., Moons, K. G., & Collins, G. S. (2019). Minimum sample size for developing a multivariable prediction model: PART II-binary and time-to-event outcomes. Statistics in medicine, 38(7), 1276-1296.
- Rivera, L. A. (2020). A Study of Leaders' Self-Rated Emotional Intelligence and a 360-Degree Followers' Rating of Their Leader's Behavior Using the Full Range Leadership Model. Our Lady of the Lake University.

- Roemer, E., Schuberth, F., & Henseler, J. (2021). HTMT2-an improved criterion for assessing discriminant validity in structural equation modeling. *Industrial management & data systems*, 121(12), 2637-2650.
- Rönkkö, M., & Cho, E. (2022). An updated guideline for assessing discriminant validity. Organizational Research Methods, 25(1), 6-14.
- Safdar, S., & Liu, S. (2020). The influence of justice on commitment of Pakistani bankers: Job satisfaction as mediator. *International Journal of Public Administration*, 43(14), 1183-1193.
- Safitri, R., & Riyanto, S. (2020). The Effect of Perceived Organizational Support, Organizational Commitment, And Work Motivation to Organizational Citizenship Behavior on Employees of PT. Seacon Terminal. International Journal of Sciences: Basic and Applied Research, 54(1).
- Sahyoni, N. K. T., & Supartha, I. W. G. (2020). The effect of organizational culture, organizational commitments and job satisfaction on organizational citizenship behaviour. American Journal of Humanities and Social Sciences Research, 4(3), 425-432.
- Saira, S., Mansoor, S., & Ali, M. (2020). Transformational leadership and employee outcomes: the mediating role of psychological empowerment. Leadership & Organization Development Journal.
- Sajid, S. M., & Akhtar, M. M. S. (2020). Exploring Teachers' Citizenship Behavior at Public Universities of the Punjab. *Bulletin of Education and Research*, 42(1), 141-154.
- Salam, A. (2020). Organizational Justice as a Predictor of Organizational Citizenship Behaviour. 13, 29-42. doi: 10.37134/ibej.vol13.sp.3.2020
- Samuels, P. (2020). A Really Simple Guide to Quantitative Data Analysis.
- Santoso, P. B., Asbari, M., Siswanto, E., & Fahmi, K. (2020). The role of job satisfaction and organizational citizenship behavior on performance: Evidence from Indonesian teachers. *International Journal of Social and Management Studies*, 1(1), 22-31.



- Sarianti, R., & Armida, S. (2020). The influence of distributive justice and perceived organizational support on organizational citizenship behavior. presented at the 4th Padang Conference International on Education, Economics, Business and Accounting (PICEEBA-2 2019).
- Saunders, B., Sim, J., Kingstone, T., Baker, S., Waterfield, J., Bartlam, B., Jinks, C. (2018). Saturation in qualitative research: exploring its conceptualization and operationalization. *Quality & quantity*, 52, 1893-1907.
- Sekaran, U., & Bougie, R. (2019). Research methods for business: A skill building approach: john wiley & sons.
- Seran, G. L., Subiyanto, D., & Kurniawan, I. S. (2021). Effect of Organizational Commitment, Compensation and Job Satisfaction on Employee Performance Through Organizational Citizenship Behavior In Bank BPD DIY Employees Senopati Branch Office. Bina Bangsa International Journal of Business and Management, 1(1), 39-50.
- Shaikh, A. A., Aziz, S. A., & Sulman, N. (2017). A Study Of The Factors Affecting The Academic Achievements Of Government Secondary Schools, Karachi. The Shield-Research Journal of Physical Education & Sports Science., 11.
- Sharma, G. (2017). Pros and cons of different sampling techniques. *International journal of applied research*, 3(7), 749-752.
- Shrestha, M., & Subedi, D. (2020). Organizational Citizenship Behavior among Teachers of Nepal: Did Locale Contribute it's in School Settings? American Journal of Economics and Business Management, 3(1), 1-23. Shrestha, P. (2019). Employee commitment and organizational citizenship behavior in Nepal. American International Journal of Business Management, 2(12), 86-90.
- Silitonga, N., Novitasari, D., Sutardi, D., Sopa, A., Asbari, M., Yulia, Y., Fauji, A. (2020). The Relationship Oftransformational Leadership, Organizational Justice And Organizational Commitment: A Mediation Effect Of Job Satisfaction. *Journal of Critical Reviews*, 7(19), 89-108.

- Sivarat, N., Thamma, P., & Kenaphoom, S. (2021). Full Range Leadership Concepts. *Elementary Education Online*, 20(6), 1311-1319.
- Sivaruban, S. (2021). A Critical Perspective of Leadership Theories.
- Sjahruddin, H., & Sudiro, A. (2013). Organizational justice, organizational commitment and trust in manager as predictor of organizational citizenship behavior. *Interdiciplinary J. of contemporary Res. Bus. (IJCRB)*, 4(12), 133-141.
- Sobaih, A. E. E., Hasanein, A. M., Aliedan, M. M., & Abdallah, H. S. (2022). The impact of transactional and transformational leadership on employee intention to stay in deluxe hotels: Mediating role of organisational commitment. *Tourism and Hospitality Research*, 22(3), 257-270.
- Soelton, M., Suatoni, M., Syah, T. Y. R., Ramli, Y., Santoso, P., Amanda, B., & Octaviani, R. (2020). Conceptualizing The Role of Organizational Commitment. American International Journal of Business Management (AIJBM), 178-188.
- Somech, A., & Ohayon, B.-E. (2019). The trickle-down effect of OCB in schools: the link between leader OCB and team OCB. *Journal of Educational Administration*.
- Suifan, T. S. (2019). The effect of organizational justice on employee's affective commitment: the mediating role of job satisfaction. *Modern Applied Science*, 13(2), 42-53.
- Sujono, D., Tunas, B., & Sudiarditha, I. (2020). Vitality of work involvement in mediation: The effect of organizational justice on organizational citizenship behavior. *Management Science Letters*, 10(5), 1061-1068.
- Sun, I. Y., Wu, Y., Otu, S. E., Aro, G. C., Akor, I. C., & Nnam, M. U. (2022). Linking organizational justice to organizational commitment among Nigerian police officers. Criminal Justice and Behavior, 49(2), 220-238.
- Sung, T. P., Joo, L. W., Rahim, I. H. A., & Sondoh, S. (2019). Transformational and transactional leadership styles towards organizational commitment in the hotel industry. *Journal of Tourism*, 4(17), 34-45.



- Supriya, C., & Dadhabhai, D. (2020). Effect of Organizational Justice on Employee Commitment-a Study. International Journal of Management, 11(9).
- Supriyanto, A. S., Ekowati, V. M., Idris, I., Susminingsih, S., & Iswanto, B. (2020). Leadership styles as a predictor of the voluntary work behaviors of bank employees. *IJEM International Journal of Economics and Management*, 14(1), 1-11.
- Sürücü, L., & MASLAKÇI, A. (2020). Validity and reliability in quantitative research. Business & Management Studies: An International Journal, 8(3), 2694-2726.
- Susita, D., Sudiarditha, I., Purwana, D., Wolor, C., & Merdyantie, R. (2020). Does organizational commitment mediate the impact of organizational culture and interpersonal communication on organizational citizenship behavior? *Management Science Letters*, 10(11), 2455-2462.
- Suwandana, I. G. M., Satrya, I. G. B. H., & Riana, I. G. (2022). Organizational support as a predictor of organizational commitment and their effects on organizational citizenship behavior in non-star hotels. *Linguistics and Culture Review*, 6, 229-241.
- Syaifuddin, D. T., Kamaluddin, S., Sri, A., & Mahrani, W. (2019). Organizational justice and Organizational citizenship behavior: The mediating effect of Leader member exchange.
- Syakur, A., Susilo, T. A. B., Wike, W., & Ahmadi, R. (2020). Sustainability of Communication, Organizational Culture, Cooperation, Trust and Leadership Style for Lecturer Commitments in Higher Education. Budapest International Research and Critics Institute-Journal (BIRCI-Journal), 3(2), 1325-1335.
- Taherdoost, H. (2022). What are different research approaches? Comprehensive review of qualitative, quantitative, and mixed method research, their applications, types, and limitations. *Journal of Management Science & Engineering Research*, *5*(1), 53-63.

- Tahir, M., Khan, R. A., & Rahim, Z. (2019a). The Influence Of Organizational Justice On Employee Organizational Commitment In The Information Technology Sector, Pakistan. *Iqra Journal of Business & Management (IJBM)*, 1(1).
- Tahir, M., Khan, R. A., & Rahim, Z. (2019b). The Influence Of Organizational Justice On Employee Organizational Commitment In The Information Technology Sector, Pakistan. *P age* | *i*, 38.
- Takiguchi, Y., Matsui, M., Kikutani, M., & Ebina, K. (2023). The relationship between leisure activities and mental health: The impact of resilience and COVID-19. Applied Psychology: Health and Well-Being.
- Tamghe, C. d. D. K. (2019). Organizational justice and organizational commitment of public secondary school teachers in Cameroon. *Journal of Education and practice*, 10(36), 157-166
- Tangngisalu, J., Mappamiring, M., Andayani, W., Yusuf, M., & Putra, A. H. P. K. (2020). CSR and firm reputation from employee perspective. The Journal of Asian Finance, Economics, and Business, 7(10), 171-182.
- Taseer, N. A., Siddique, A., Sattar, A., & Imran, M. (2020). Exploring Secondary School Teachers' Organizational Citizenship Behavior in Pakistani Context. *PalArch's Journal of Archaeology of Egypt/Egyptology*, 17(12), 1851-1861.
- Trisnawati, N. K. A., Ardana, I. K., & Suwandana, I. G. M. (2020). The Effect of Organizational Justice, Organizational Commitment and Job Satisfaction on Employees Organizational Citizenship Behavior.
- Tseng, C.-H., & Sim, D. (2021). Sample size planning for bilot studies.
- Turney, S. (2023). Pearson Correlation Coefficient (r) | Guide & Examples. Retrieved 1-6-2023, from
 - https://www.scribbr.com/statistics/pearson-correlation-coefficient/



- Ugwuanyi, C. S., Okeke, C. I., & Ageda, T. A. (2020). Motivation and self-efficacy as predictors of learners' academic achievement. *Journal of Sociology and Social Anthropology, 11*(3-4), 215-222.
- Ullah, Q., Rehman, A., Zeeshan, M., Shah, I., Umer, S., & Khan, W. (2021). The Impact of Organizational Justice on Organizational Citizenship Behavior with the Mediating Role of Trust.
- Umamaheswari, S., & Joyce, S. (2020). Antecedents and consequence of organizational commitment among employees of ceramic industries in India. *Journal of Criticakl Reviews*, 7(6), 20-22.
- Umrani, W. A., Siyal, I. A., Ahmed, U., Arain, G. A., Sayed, H., & Umrani, S. (2019). Does family come first? Family motivation-individual's OCB assessment via self-efficacy. *Personnel Review*.
- UOK. (2023). Retrieved 1/1/2023, from https://uok.edu.pk/administration/affiliation s.php
- Utami, N. M. S., Sapta, I., Verawati, Y., & Astakoni, I. (2021). Relationship between workplace spirituality, organizational commitment and organizational citizenship behavior. *The Journal of Asian Finance, Economics, and Business*, 8(1), 507-517.
- Verma, A. (2021). A Study of Relationship of Job Satisfaction and Organizational Commitment with Organizational Citizenship Behavior Amongst College TeacherS.
- Wadood, F., Akbar, F., & Ullah, I. (2021). The Importance and Essential Steps of Pilot Testing In Management Studies: A Quantitative Survey Results. Journal of Contemporary Issues in Business and Government Vol, 27(5).
- Whitehead, A. L., Julious, S. A., Cooper, C. L., & Campbell, M. J. (2016). Estimating the sample size for a pilot randomised trial to minimise the overall trial sample size for the external pilot and main trial for a continuous outcome variable. Statistical methods in medical research, 25(3), 1057-1073.

- Widjajani, S., Rahmawati, F., & Yulianti, E. (2021). Organizational Justice and Organizational Citizenship Behavior: The Mediating Effect of Work Satisfaction. *Jurnal Analisis Bisnis Ekonomi*, 19(1), 1-14.
- Widyanti, R. (2020). Do leadership style and organizational communication increase to organizational commitment? Study among hospital staff. *Holistica–Journal of Business and Public Administration*, 11(2), 17-24.
- Winarsih, S., & Riyanto, S. (2020). The Effect of Organizational Culture, Organizational Justice, and Organizational Commitment on Organizational Citizenship Behavior (OCB) International Journal of Management and Humanities, 5(1), 12-19.
- Wong, K. K.-K. (2019). Mastering partial least squares structural equation modeling (PLS-Sem) with Smartpls in 38 Hours: IUniverse.
- Wuisan, D., Palupi, Y. F. C., & Sutawidjaya, A. H. (2020). The Influence of Organizational Commitment, Work Satisfaction, and Organizational Culture to Behavior Organizational Citizenship (OCB).
- Wulani, F., Supriharyanti, E., & Agustian, B. (2019). Leadership Style, Organizational Commitment, and Organizational Citizenship Behavior on Credit Union in Indonesia. 11.
- Wynendaele, H., Gemmel, P., Peeters, E., Myny, D., & Trybou, J. (2021). The effect of self-scheduling on organizational justice and work attitudes through leader-member exchange: A cross-sectional study using propensity scores. *International Journal of Nursing Studies*, 122, 104032.
- Yasa, I. K. P. K. E., & Netra, I. G. S. K. (2021). The Role of Organizational Commitments Mediating the Effect of Organizational Justice on OCB.
- Yeh, C. M. (2019). The relationship between tourism involvement, organizational commitment and organizational citizenship behaviors in the hotel industry. *Tourism and hospitality management*, 25(1), 75-93.



- Yorulmaz, M., & Karabacak, A. (2021). Organizational justice perception and organizational citizenship behavior of shipyard workers: the role of identification and emotional intelligence. *Maritime Business Review, ahead-of-print*. doi: 10.1108/MABR-08-2020-0054
- Zainuddin, M., Abu, M., & Asaari, H. (2020). Leadership Styles and Organizational Commitment among Managers in Bahrain.
- Zamanan, M., Al-Qa'eed, M., & Al-Raqad, M. (2020). Organizational Justice and Its Impact on Organizational Commitment in the General Administration of Customs in the State of Kuwait. *Modern Applied Science*, 14, 38. doi: 10.5539/mas.v14n6p38

- Zarish, H. M., Zulqarnain, M., & Rehman, K. U. (2020). Impact of Organizational Justice on Organizational Commitment. Research Journal for Societal Issues, 2(1), 46-61.
- Zawawi, A., & Putrawan, I. M. (2019). Linking leadership styles and organizational culture to organizational commitment in the industry of automotive components (The mediating role of procedural justice). International Journal of Innovative Technology and Exploring Engineering, 8(6), 48-54.
- Zeng, N., Liu, Y., Gong, P., Hertogh, M., & König, M. (2021). Do right PLS and do PLS right: A critical review of the application of PLS-SEM in construction management research. Frontiers of Engineering Management, 8(3), 356-369. doi: 10.1007/s42524-021-0153-5