

The Impact of Workplace Environments on Retention Outcomes of Public Universities in Southern Nigeria

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Abstract

Universities, across the globe, are identified as complex and critical engines for sustainable development. Nigerian universities have recorded success stories and breakthroughs, but they have their teething problems of retention and challenges which tend to impede their position on the world education league table. Retention of employees in the work environment has attracted a lot of attention from scholars in different fields of study to curb the trend of turnover intentions, human capital flight and redundancy of academia in Nigeria. Hence, this paper investigates the impact of workplace environments on the retention of the academic staff of public universities, Southern-Nigeria. The study adopted a cross-sectional and descriptive approach to elicit information from 384 academic staff that were randomly and purposively selected. The use of a modified questionnaire (quantitative) was adopted. The quantitative data were analysed using Structural Equation Modelling (SEM_PLS) to obtain results. The findings indicated that the issue of inadequate and decay of infrastructural facilities had been a concern to the sampled universities. Many lecturers, including professors, shared offices that are dilapidated, poorly ventilated and furnished. The results indicated an increasing pauperization, varying promotion criteria, erratic power supply, over-congested classrooms and a growing disparity in the ratio between teaching staff and students. Due to its consequences, strategies for curbing this menace in state universities, such as the creation of enabling environment, adequate funding of tertiary education, effective administration and motivation of staff of the sampled institutions, among others were proffered.

Keywords

work environment, retention, climate, satisfaction, turnover

Introduction

Universities, across the globe, are identified as the most complex and critical engines for teaching, research, community impact, and economic development. This complexity necessitates a degree of proficiency, scholarship, and proven erudition from university academic staff. The achievement of this becomes imperative because universities, by their distinctive nature, are required to be a fountain of competency, governance, and partnership. Central to the achievement of the objectives are the teaching staff (lecturers) whose responsibilities are fundamental to ensuring continued existence, sustenance, and success of the university system. The quantity and quality of the required academic staff make the difference in any university education system. (Oziengbe & Obhiosa, 2014; Saka & Salami, 2014)

In Nigeria, the increasing number of these universities, coupled with the insufficient number of qualified academic

staff, has become worrisome, especially in public universities. Nigeria's university education has been faced with a high degree of apprehension and recurrent crises of different kinds which have ultimately resulted in the incessant strike embarked by the Academic Staff Union of Universities (ASUU). There are crises of internal governance and vulnerability, favouritism, unsatisfactory work situations such as poor condition of services (Gberevbie, 2008; Ibidunni et al., 2016), severe administrative and organisational structure (Osibanjo et al., 2014); under-funding (Ajayi & Ekundayo, 2010) and inadequate learning and teaching facilities (Abdulsalam & Mawoli, 2012; NUC, 2010); poor relationship with supervisors and

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colleagues (Asmui et al., 2012); crises of employment relationship (Adeniji & Osibanjo, 2012; Ojeifo, 2014) and continuity (Oredein & Alao, 2010); brain drain, rising absenteeism, and attrition (Gberevbie, 2008; Salau et al., 2018).

Of all the crises, unsatisfactory working conditions (Salau et al., 2018; Obateru, 2013), under-funding (Okebukonla, 2008), rising absenteeism and brain-drain (Ige, 2014; Okoro et al., 2014) have been recognised as most critical and worrisome (Adeyemi & Ekundayo, 2010; NUC, 2015; Nwagwu, 2015). By implication, the high rate at which university academic staff in Nigeria embark on industrial action and eventually resign from their jobs has become a source of concern for university management and government since 1980. Some other conflicts between university staff, management and government from 1980 to 2019 showing the number of times ASUU went on strike are shown in Table 1.

It need not to be overemphasized that funding is paramount in the educational institution. No educational system can develop beyond the level of its funding. In an educational institution, the fund is required for the payment of remunerations, and other benefits to staff, purchasing of needed facilities, construction and repair of building and administration of the institution daily (Igbinoba et al., 2019; Salau, 2017; Stasisense, 2019) indicated that. UNESCO declared that “for effective funding of education, 26% of the Gross Domestic Product (GDP) of each country in the world must be allocated to education” (Kpolovie & Obilor, 2013; Oyetaikin et al., 2012; UNESCO, 2010). The case of Nigeria over the years, however, portends a noncompliance with this standard. Allocation to the education sector has been meager when compared to the annual budget, and this invariably affects employment relationship and continuity as presented in Table 2.

Nigerians have criticized the government for proposing an allocation lower than 26% of national budget “recommended” by the United Nations Educational, Scientific and Cultural Organization (UNESCO) to the education sector. A sum of 691.07 billion constituting 6.7% has been allocated to Nigeria’s Federal Ministry of Education in the 2020 national budget (Budget Office of the Federation, 2020 Abiodun-Oyebanji, 2011). Extant literature has shown that if this declining trend in percentage continues, envision 2030 sustainable development goals (SDGs), especially SDG Goal 4: Quality Education, may be challenging to achieve. Research has shown that lecturers leave Africa every year with Nigeria accounting for the bulk of the number.

Inadequate funding has been identified as the primary reason for the rot and challenges in the education sector, especially tertiary education, which has led to frequent strikes by teaching and nonteaching staff since the early 1990s. Indeed, the Federal Government’s allocation to education in the last 10 years has been miserly. Out of a budget of N55.19 trillion, only N3.90 trillion or 7.07% was allocated to the sector. Within the sphere of academics, available evidence indicates that academic staff resign from their jobs typically as a result

of the inadequate reward system and poor working conditions such as infrastructural neglect and deterring conditions of service (Ologunde et al., 2013). This sentiment is validated on the Webometrics, Times Higher Education (THE), and ranking tables. It was observed that Nigerian state universities have not featured in the first 3,500 universities in the world (Webometrics, July 2019).

Report from the THE for 2018 also indicated that none of Nigeria’s universities was listed in the first 1,000 universities in the world. Most, if not all, of Nigerian universities primarily the state-owned would not be able to feature and compete with the rest of the world on the ranking tables if measured on these parameters above, especially on those parameters that focus on research outlook in world journals, student to faculty ratio (Adekitan & Salau, 2018), academic reputation, Alumni winning a Nobel laureate, knowledge transfer, patents, industry income, citations, international outlook, and so on. Central to National University Commission (NUC) annual university rankings, no state university appeared in the first 10 universities in Nigeria (NUC, 2019). Okebukola (2008) noted that the primary reason why Nigerian universities are poorly ranked is attributed to the level of research impact, openness, publications, citations, and alumni employment. In view of the problem statement, the following null hypotheses were formulated to guide this study:

1. **Hypothesis 1 (H1):** Physical work setting does not play any significant role in enhancing the retentions of academic staff of selected state universities in Nigeria.
2. **Hypothesis 2 (H2):** Psychological work milieu does not have a significant effect on the retention of the academic staff of selected state universities in Nigeria.
3. **Hypothesis 3 (H3):** There is no significant relationship between job contents and retention of the academic staff of selected state universities in Nigeria.
4. **Hypothesis 4 (H4):** Reward system does not encourage the retention of the academic staff of selected state universities in Nigeria.
5. **Hypothesis 5 (H5):** Organizational climate does not contribute significantly to the retention of the academic staff of selected state universities in Nigeria.

Theoretical Justification

This implies that equity is not just concerned about input – outcome ratio, but also a comparison of an employee’s input-output ratio with the input-output ratio of referent others. By this comparison, if employees perceive that their input impact their outcome vis a vis the input-outcome of referent others, a state of perceived equality is said to exist (Fapohunda, 2012; Fatile & Adejuwon, 2011). If the reverse is the case, that is, employees input do not match outcomes, in addition to input-output of referent others, then there is a state of perceived inequality.

Table 1. ASUU Strikes (Between 1980 and 2019).

Year	Strikes
1980	ASUU embarked on an industrial action because of the threat of termination of lecturers from the university of Lagos.
1981	ASUU embarked on further strikes to demand consistent and appropriate funding for the universities system.
1983	There was negotiation on the Elongated University Salary Structure (EUSS) and this resulted into industrial dispute in 1988 because implementation of prior contractual agreement was far-fetched.
1984	ASUU embarked on strike to fight against the deregulation of the economy and to resist military dictatorship.
1985	The Union embarked on strike to resist the military regime and its authoritarian decree 16 of 1985.
1986	ASUU embarked on strike to object the introduction of the Structural Adjustment Programme (SAP) by the Ibrahim Babangida's administration.
1987	ASUU protested for the implementation of the Elongated University Salary Scale and to establish a joint negotiation committee between ASUU and the Federal Government.
1988	Strike against the effects of imposed SAP.
1992	Went on strike due to the failure of negotiations between the Union and the Federal Government over the working conditions in Nigerian universities.
1993	ASUU was banned again because it refused the order of the Industrial Arbitration Panel (IAP) to suspend industrial action and return to the negotiation table.
1994	ASUU embarked again on a strike to demand renegotiation of agreements reached in 1992, the reinstatement of over 80 lecturers whose appointments were terminated.
1996	ASUU embarked on a strike due to the dismissal of the ASUU President, Dr. Assisi Asobie.
2001	ASUU declared an industrial action on issues related to funding of universities and also sought the reinstatement of 49 sacked lecturers at the University of Ilorin for taking part in a previous industrial action in 2001.
2002	ASUU embarked on a strike to protest the failure of the government of Obasanjo to implement the 2001 agreement.
2003	ASUU embarked on a further industrial action due to the nonimplementation of previous agreements, poor university funding and disparity in salary, retirement age.
2007	It was the same agitation for salary increment and other reforms in the education sector the ASUU cried out for in 2005 that led to the strike. In 2007, ASUU went on another strike for 3 months.
2008	There was a 2-week "warning strikes" to press on a range of demands, including an improved salary scheme and reinstatement of 49 lecturers who were dismissed many years ago.
2009	ASUU embarked on an indefinite strike over a disagreement with the Federal Government on an earlier agreement reached. After 3 months of strike, in October 2009, and MoU was signed and the strike was called off.
2013	July 1, 2013, another industrial action started
2014	Universities staff strike nearly 6 months over a pay dispute between the government and lecturers.
2015	Strike over pay and provision of enabling environment
2016	Universities staff embarked on indefinite strike over failure by the Federal Government to implement the 2009 Agreement and 2013 MoU
2017	ASUU begins indefinite strike on August 14, 2017.
2018	After the failure of the Government to enforce the agreement reached with the union in November 2016, ASUU embarked on an indefinite strike on November 4, 2018.
2019	Speaking reluctantly about failure of government to implement the terms of the 2019 Memorandum of Action, ASUU threatens strike.

Source. Statisense (2019) and Igbino, Salau, Falola, Olokundun, & Ogueyungbo (2019).

Note. ASUU = Academic Staff Union of Universities.

When this exists in a social exchange, the employees are possibly going to be unhappy and dissatisfied. Input here refers to the magnitude and values of an employee's effort and contributions in his or her work such as competence, skills, effort, time, tolerance, trust in colleagues & superiors, commitment and discretionary effort among others. The output of outcomes refers to favourable or unfavourable results that an employee perceives as resulting from the employment relationship such as pay & benefits, recognition for performance, responsibilities, sense of achievement, job security, reputation and esteem among others.

Expectancy theory was propounded by Victor Vroom in 1964. This theory looks at the employee's expectations from the work they do. The expectancy theory consists of three vital components which are expectancy, instrumentality, and valence. Employees have different needs, wants, and goals and are motivated based on the expectations they have that their effort will lead to performance and performance will be compensated (Vroom, 1964). According to Vroom (1964), organizations should ensure that the reward tied to a particular performance is attractive and of high value. Full knowledge of what individual employees want should be ascertained

Table 2. FG Budgetary Allocation to Education in Nigeria as % (2000–2020).

Year	Total budget	Allocation to education	Education as % of total budget
2000	470 billion	N40.9 billion	8.71
2001	894 billion	N63.8 billion	7.13
2002	1.1 trillion	N73.4 billion	6.90
2003	976 billion	N75.7 billion	7.75
2004	1.80 trillion	N93.8 billion	5.24
2005	1.80 trillion	N147.8 billion	8.21
2006	1.88 trillion	N195.7 billion	10.43
2007	2.27 trillion	N221.1 billion	9.75
2008	2.49 trillion	N250.1 billion	10.04
2009	3.049 trillion	N221.19 billion	8.79
2010	5.160 trillion	N249.09 billion	7.37
2011	4.972 trillion	N306.3 billion	9.32
2012	4.877 trillion	N400.15 billion	8.20
2013	4.987 trillion	N426.53 billion	8.55
2014	4.962 trillion	N493 billion	9.94
2015	5.068 trillion	N392.2 billion	7.74
2016	6.060 trillion	N396.6 billion	4.0
2017	7.290 trillion	N550 billion	7.40
2018	8.6 trillion	N605.8 billion	7.04
2019	8.92 trillion	N620.5 billion	7.05
2020	10.59 trillion	N691.07 billion	6.7

Source. Budget Office of the Federation (2020).

as needs and wants varies. Employees should be treated as assets rather than being employed to achieve organizational goals. Employee's expectations should be met as these expectations help to determine the number of efforts they will put into the organization. The efforts put in will determine their performance level and in turn affect their reward. As effort, performance, and reward are interrelated, organizations should ensure that these three components are appropriately attended to and taken into cognizance.

Method

Nigeria is the most visited country in West Africa with a landmass of 923,768 km and the fifth most visited country in Africa as a whole. Nigeria is a member of the West African Economic Community (ECOWAS) and later joined other African nations in 1963 to form the Organization of African Unity (newly renamed the African Union in 2002). Nigeria is situated in south-west coastal Africa and shares its borders in southeast Central Africa with the Republic of Niger, the Atlantic Ocean, the Republic of Cameroon, and Benin. This artificial boundary between Nigeria and other countries stretches over thousands of kilometers affecting several millions of people in a variety of ways. Notwithstanding, their separation by colonial powers, border communities still maintain a high degree of sociocultural and economic linkages through a large volume of cross-border trades. Nigeria became independent in 1960, and it is

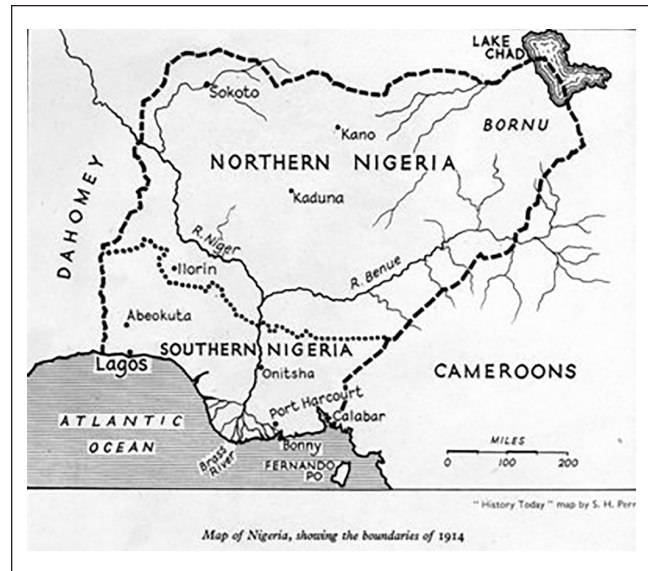


Figure 1. Southern Nigeria Map.

the most populated in Africa, with over 140 million inhabitants and over 370 diverse ethnic groups. Following the effort to employ a lingua franca over two decades ago, no language is used nationally. Nigeria has a diverse climate, with a northeasterly area of mountains, southeasterly rainforest, and northwest desert, as presented in Figure 1.

Southern Nigeria was established in 1900. In 1906, Lagos Colony was moved to South Nigeria. In 1914, South Nigeria joined with northern Nigeria to create Nigeria's colony. The southern Provinces were split into the eastern and western regions in 1939, which were absorbed into the Nigerian Federation on October 1, 1960. Nigeria's southern part is further broken down into three sub-regions, namely South-East (SE), South-South, and South-West (SW).

Nigeria's south-south region comprises six states (Akwa-Ibom, Bayelsa, Cross River, Delta, Rivers, and Edo). Because of its oil reserves and the enormous wealth of oil, the region is significant not just for Nigeria but for the whole world. As oil exploration began more than five decades ago, the area has been the nation's breadwinner. The region also contributes many primary commodities with significant prospects for investment in tourism and agriculture.

South-eastern region of Nigeria was formed during the Nigerian Civil War, and it comprises Abia State (God's Own Country), Anambra Country (Light of the Nation), Ebonyi State (Salt of the Nation), Enugu State (Coal City Territory), and Imo State (Eastern Heartland-Hope Land).

Nigeria's south-west area offers a wide variety of sights and experiences; from Lagos beaches to the Osun State natural springs, and from Ibadan's historic city to the Ogun State mountain caves. There are six states in South-West, Nigeria. The states are Ekiti, Lagos, Ogun, Ondo, and Oyo.

Table 3. Public (State) Universities in Southern Nigeria.

South-West	South-South	South-East
Name of university and year of establishment	Name of university and year of establishment	Name of university and year of establishment
Ekiti State University, Ekiti <i>Year of Establishment: 1982*</i>	River State University (RSU), Rivers <i>Year of Establishment: 1980*</i>	Enugu State University of Science & Technology, Enugu <i>Year of Establishment: 1979*</i>
Olabisi Onabanjo University, Ago-Iwoye, Ogun <i>Year of Establishment: 1982*</i>	Ambrose Alli University, Ekpoma, Edo <i>Year of Establishment: 1981 *</i>	Ebonyi State University, Abakaliki, Ebonyi. <i>Year of Establishment: 1980*</i>
Lagos State University, Ojo, Lagos <i>Year of Establishment: 1983</i>	Delta State University, Abraka, Delta <i>Year of Establishment: 1984</i>	Abia State University, Uturu, Abia <i>Year of Establishment: 1981</i>
Ladoke Akintola University of Technology, Ogbomoso, Osun <i>Year of Establishment: 1987</i>	Niger Delta University, Yenagoa, Bayelsa State <i>Year of Establishment: 2000</i>	Imo State University, Owerri <i>Year of Establishment: 1981</i>
Adekunle Ajasin University, Akungba, Ondo State <i>Year of Establishment: 1999</i>	Cross-Rivers State University of Science & Technology, Cross-Rivers <i>Year of Establishment: 2002</i>	Anambra State University of Science & Technology, Anambra. <i>Year of Establishment: 2000</i>
Tai Solarin University of Education, Ijebu-Ode, Ogun <i>Year of Establishment: 2005</i>		
Osun State University, Oshogbo, Osun State <i>Year of Establishment: 2007</i>		
Ondo State University of Science and Technology, Okitipupa, Ondo <i>Year of Establishment: 2008</i>		

*Represents the oldest universities in each region.

The population data used in this study include all the state universities operating in southern Nigeria. This study was all-inclusive, and all the state universities in southern Nigeria were given an equal chance of participating in this study. The geopolitical location of the universities covered in this study is presented in Table 3.

The target respondents were made up of all the members of the academic staff ranging from the professors, associate professors, senior lecturers, lecturers 1, lecturers 2, assistant lecturers, and graduate assistants of all the State Universities in southern Nigeria. Defining the study population and geographic area poses several challenges for this study. Although studies have identified various ways in determining the study population, which include performance, age, geographic mapping, and so on, this study, therefore, adopted the years (age) of the establishment. This study focused on two oldest state universities in each of the southern geopolitical zone, Nigeria. These state universities were Ekiti State University, Olabisi Onabanjo University (OOU), Rivers State University (RSU), Ambrose Alli University, Enugu State University of Science & Technology, and Ebonyi State University.

The use of questionnaire was adopted to gather the necessary data for the study and questions were selected based on their previous good reliabilities in Nigeria and other countries. All specific variables or parameters were measured using items adapted from the works of Abdulkareem and

Oyeniran (2011) and Anyim (2012). These items were subsequently used to generate, test, and process the current dataset. All the items were measured using a 5-point Likert-type scale ranging from *strongly disagreed* (1) to *strongly agreed* (5). The structured questionnaire was adopted mainly to enhance uniformity of response bearing in mind that the degree of variations in behavior is likely to be high when dealing with such complex constructs like the dynamism of work environment and its consequential effects on retention.

A sample size of 347 was arrived at and was subsequently increased by 15% to 400% as recommended by Israel (2013). The distribution of the sample size to the selected universities was done using a proportionate ratio or proportional affixation criterion (PAC). Therefore, a total of 400 copies of questionnaire were randomly administered with the support of three research assistant to the academic staff of selected universities in southern Nigeria, and this completely took 3 months for the whole data collection process. Three hundred eighty-four copies of the questionnaire were retrieved, which amounted to a 96% response rate (see Table 4). Three hundred eighty-four copies of the retrieved copies of the questionnaire were found usable. Sixteen copies of the questionnaire representing 4% were unusable because they were badly completed. This response rate is considered reasonably high and was found usable and statistically valid for this study.

Table 4. Response Rate of Sampled Institutions (Comparative).

Region	Institutions	Academic staff strength	Questionnaire distributed	Questionnaire retrieved	Total % of questionnaire analyzed
South-West	Ekiti State Univ.	448	72	69	17.97
	Olabisi Onabanjo Univ.	528	78	76	19.80
	(1) Total	976	150	145	37.77
South-East	Enugu State University of Science & Tech.	421	60	57	14.84
	Ebonyi State University, Abakaliki, Ebonyi.	417	60	58	15.10
	(2) Total	838	120	115	29.94
South-South	River State University	396	62	60	15.62
	Ambrose Alli University, Ekpoma, Edo	449	68	64	16.67
	(3) Total	845	130	124	32.29
	Overall Total	2,659	400	384	100.0

Code Availability

The data collected were assembled and checked for proper recording, coding, and analysis. The data were carefully sorted and organized with no inconsistencies in various measures. Data were coded and presented using descriptive statistics method, which includes cross-tabulation frequency tables, means, and standard deviation were used to present demographic characteristics of the respondents. In contrast, inferential statistics method of analysis was employed for the tests of hypotheses. The data collected were collated and coded with IBM Statistical Package for Social Sciences (SPSS) version 22 software, Excel, and a variance-based structural equation modeling (PLS_SEM). The smart PLS (partial least squares) is used for casual molding approach, that is, evaluation of the measurement model and the structural model (Usakli & Kucukergin, 2018). Survey data is provided and shared as distinct data files (Data Citation 1). All variables-item were expressed in the questionnaire and attached at the end of the document.

Data Records

The reliability and validity of the main items in the questionnaire were assured. The test-retest reliability index was adopted while construct validity through confirmatory factor analysis (CFA) was employed, and suggestions for changes were incorporated. This assisted in ensuring that the internal consistency of the instrument was appropriate. The normality and linearity were carried out, and 16 out of 400 copies of the questionnaire were removed due to variations from the regression line. The percentage of missing data was far less than 5% and were excluded using Listwise Deletion Method as suggested by Israel (2013). For exploratory business research analysis and studies where little to nothing is known about the theoretical parameter data relationship and where predictive accuracy is desired, PLS is a suitable option for analysis. The impact of the indicators with loading greater than 0.5 but less than 0.7 on the average variance extracted (AVE) and composite reliability (CR) were studied. If there is no effect on the AVE and CR when the indicator is deleted, then the indicator is retained but if the AVE and CR increased

then the indicator is permanently deleted from the model (Tarka, 2018). After the modification of the final measurement model for all the constructs, AVE (with a threshold of 0.5) and CR (with a threshold of 0.7) were conducted as presented in Figures 2 and 3, respectively.

This suggests that the instrument was confirmed reliable. Eventually, for the outer model, the strength of each indicator was adjudged, and the acceptable limit of 0.6 and an ideal value of 0.7 were applied as suggested by Hair et al. (2017) and Bagozzi & Youjae (1988). Using 5,000 subsamples, the significance of the model was determined using the bootstrapping algorithm. The path coefficient (loadings), the significance, and the *t*-value of each path of the indicators are reported in Tables 4 and 5, respectively.

Technical Validation

For the analysis, 384 copies of the questionnaire, which amounted to 96%, were retrieved from the academic staff of selected universities in southern Nigeria. Below are the tables showing the frequency distribution of variables and responses to administered questions. Table 4 and Figure 4 indicated the respondents by type of institutions.

Table 4 and Figure 4 showed that 145 or 37.77% of the population were from South-West (Ekiti State University [17.97%] and OOU [19.80%], respectively); 115 or 29.94% of the population were from South-East (Enugu State University of Science & Technology [14.84%] and Ebonyi State University [15.10%], respectively); 124 or 32.29% of the population were from South-South (RSU with 15.62% and Ambrose Alli University, Ekpoma with 16.67%). Table 5 described the biographical characteristics of the respondents. Important variables considered were gender, current rank/status, work experience, and current university as presented in Table 5.

Correlation of Variables for the Sampled Universities in Southern Nigeria

In determining the strength of the relationship, Cohen (1988) suggests the following guidelines and the analysis is presented in Table 6:

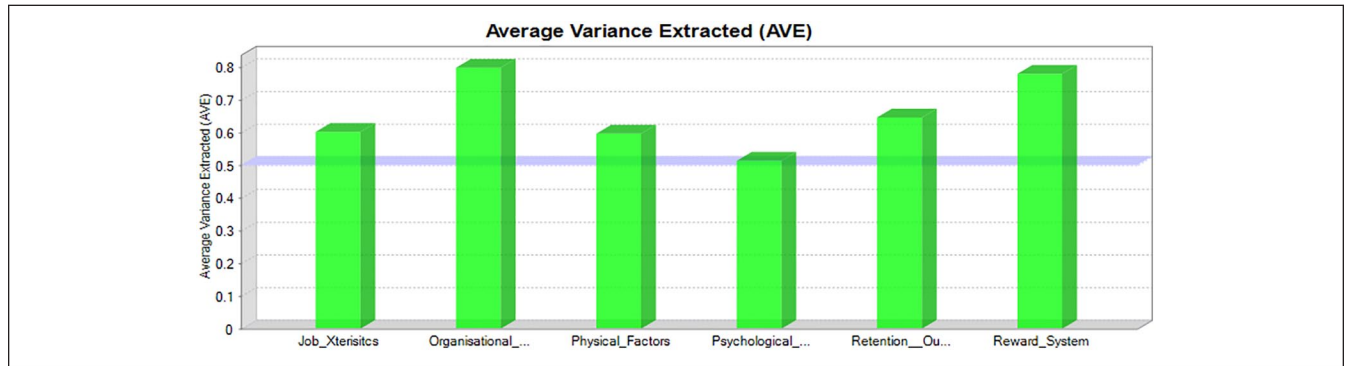


Figure 2. The average variance extracted (AVE) values for the latent variables.

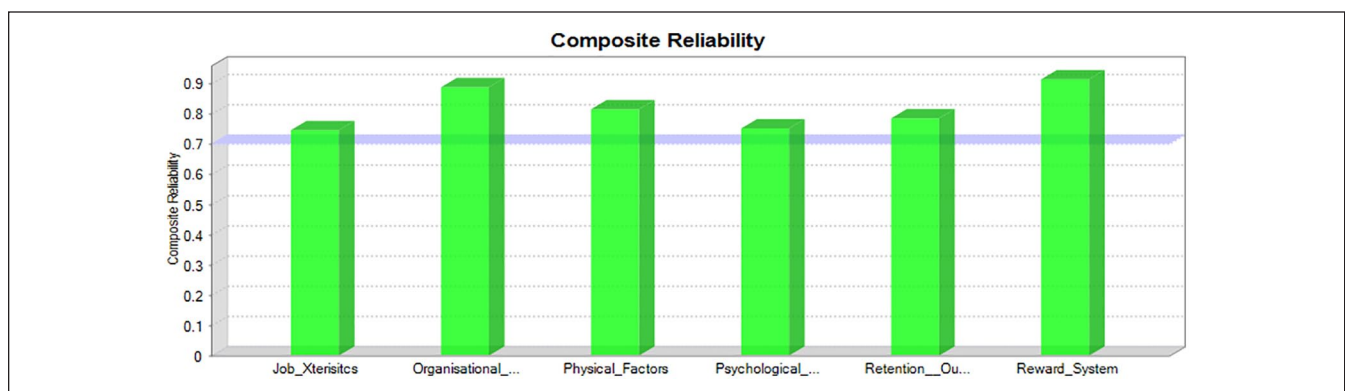


Figure 3. The composite reliability of the implemented model.

$R = .010$ to $.29$ indicates weak relationship or $r = -.10$ to $-.29$: weak negative relationship;
 $R = .30$ to $.49$ indicates medium relationship or $r = -.30$ to $-.49$: medium negative relationship;
 $R = .50$ to 1.0 indicates strong relationship or $r = -.50$ to -1.0 : strong negative relationship.

Hence, the use of structural equation model was adopted to confirm the level of variability and fitness of the model to explain the relationship between the dimensions of the work environment and retention outcomes. In this study, the impact of workplace environment on retention outcomes was analyzed using partial least squares (PLS) approach to structural equation modeling (SEM) (Fornell & Larcker, 1981). The following input parameters (organizational climate, reward system, physical factors, psychological factors, and job contents) were considered and with each progression in the analysis parameters having covariance issues were dropped in compliance with standard SEM analysis procedure. The final model developed is shown in Figures 5 and 6, respectively.

The structural modeling indicates that when Physical_work goes up by 1, retention goes up by 0.381 (38.1%). When Psycho_work goes up by 1, retention goes up by 0.215 (21.5%). When Job_contents/characteristics goes up by 1,

retention goes up by 0.282 (28.2%). When Reward_systems goes up by 1, retention goes up by 0.118 (11.8%). Finally, when Organizational_clim goes up by 1, retention outcome goes up by 0.257 (25.7%). This implies that the regression weight in the prediction of staff commitment is significantly different from zero at the 0.001 level (two-tailed). The key statistics of the indicator parameters can also be found in Table 7.

As shown in Table 7, all the indicators are significant at $p < .05$, the outer loadings range from 0.627 to 0.931, while the t -values varied from 6.749 to 40.894 thereby satisfying the 1.96 minimum t -value requirement for the indicators. The significance of each depot's contribution to the global business performance is presented as a tested hypothesis in Table 8. For the one-tailed t -test at 5% significance level, all the hypotheses have t -values that are greater than 1.96 at $p < .05$, which confirms their significance and substantial impact on the institutional performance. The R^2 of the overall model is .896 as shown in Table 8, which implies that 89.6% of the variation in the overall retention outcomes of academic staff is explained by the workplace environment indicators.

The tables show the degree of association between workplace environments and retention among academic staff of southern Nigeria. This relationship is strengthened with path coefficients histogram as presented in Figures 7 to 11.

Table 5. Biographical Characteristics of Respondents.

Distribution by gender			
Gender	Frequency	Percentage	Cumulative frequency
Male	236	61.5	61.5
Female	148	38.5	100.0
Total	384	100	

Distribution by staff status			
Staff status	Frequency	Percentage	Cumulative frequency
Assistant professor and professor	18	4.7	4.7
Senior lecturer	38	9.9	14.6
Lecturer 1	68	17.7	32.3
Lecturer 2	172	44.8	77.1
Graduate and assistant lecturer	88	22.9	100.0
Total	384	100	

Distribution by years of service			
Years of service	Frequency	Percentage	Cumulative frequency
0–10 years	239	62.2	62.6
11–20 years	125	32.6	94.8
21 years and above	20	5.2	100.0
Total	384	100	

Distribution by highest educational qualification			
Highest educational qualification	Frequency	Percentage	Cumulative frequency
Bachelor’s degree	8	2.1	2.1
Master’s degree	229	59.6	61.7
Doctoral degree (PhD)	147	38.3	100.0
Total	384	100	

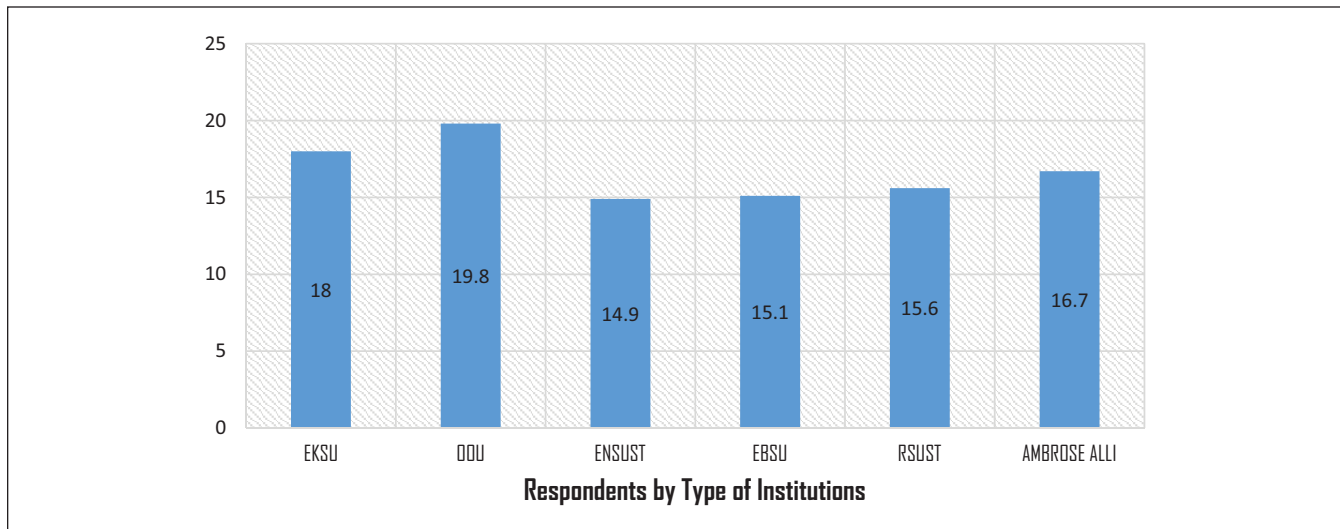


Figure 4. Respondents by type of institutions (comparative).
 Source. Researcher’s Field Survey Result.

Table 6. Correlation Analysis of the Variables.

		Public universities in southern Nigeria					
		South-West region		South-East region		South-South region	
Independent	Path direction	University A	University B	University C	University D	University E	University F
Physical workspace milieu	→ Retention	.265 (0.000)	.286 (0.000)	.398 (0.000)	.281 (0.000)	.362 (0.000)	.377 (0.000)
Psychological milieu	→ Retention	.347** (0.000)	.283** (0.000)	.487** (0.000)	.303** (0.000)	.189** (0.000)	.167** (0.000)
Job contents	→ Retention	.314** (0.000)	.721** (0.000)	.667** (0.000)	.637** (0.000)	.686** (0.000)	.770** (0.000)
Reward system	→ Retention	.224** (0.000)	.258** (0.000)	.367** (0.000)	.337** (0.000)	.386** (0.000)	.358** (0.000)
Organizational climate	→ Retention	.315** (0.000)	.234** (0.000)	.462** (0.000)	.384** (0.000)	.471** (0.000)	.371** (0.000)

**Correlation is significant at the .01 level (two-tailed).

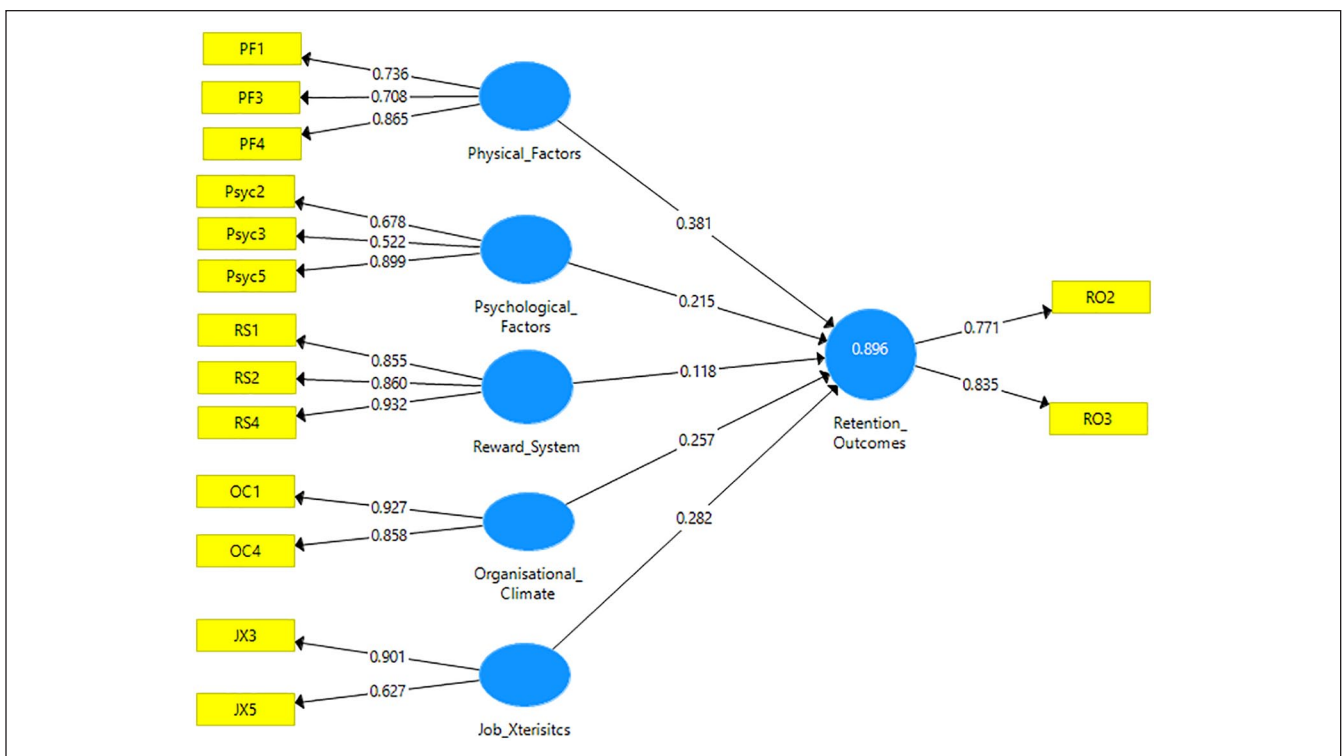


Figure 5. The structural equation model (regression weight).

To support the path coefficient histogram, discriminant validity was also checked using Fornell and Larcker criterion. Evidence for discriminant validity is indicated by the correlations among variables, as indicated in Table 9.

As revealed by the results, the discriminant validity shows the correlation matrix among the variables understudy. Hence, management must pay adequate attention to those indicators with a close relationship and essential operational parameters that affect the overall retention outcomes of academic staff. Apart from the anticipated effect, management must make sure that closely related work environment issues

affecting retention and adequate control measures must be deployed.

The collinearity of the inner model was assessed to determine the path coefficients among the variables. The result of the collinearity is presented in Table 10. The variance inflation factor values ranged from 1.054 to 2.473, and these values are less than five indicating that there is no strong indication of multicollinearity (Fornell & Larcker, 1981; Hair et al., 2017). The results of the discriminant validity check, which establishes the Fornell–Larcker Criterion, are presented in Tables 9 and 10, respectively. The AVE of the independent variables

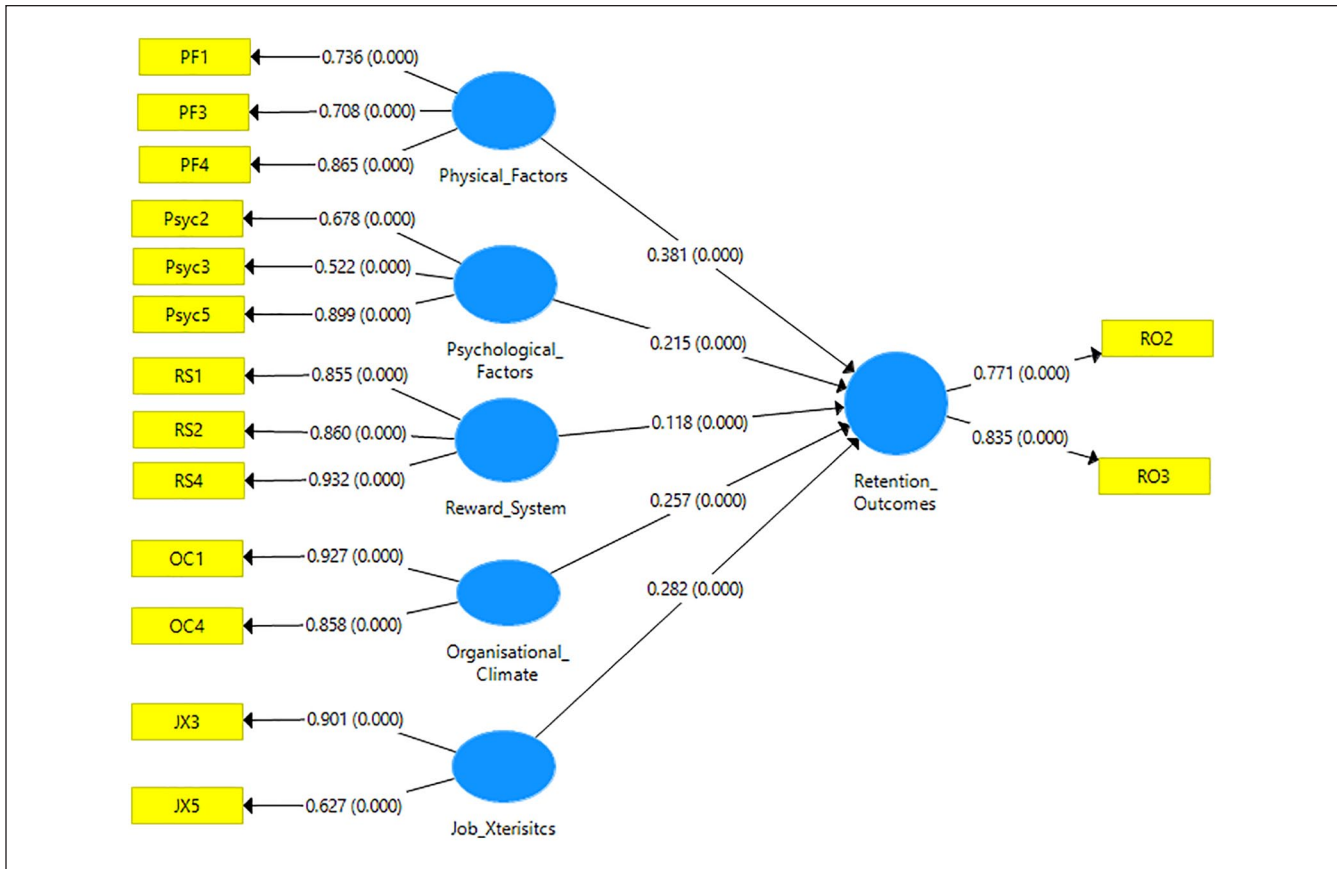


Figure 6. The structural equation model (loading and p-values).

Table 7. Key Statistics of the Indicator Parameters.

Variables measured	Outer loadings	Outer weights	SD	T statistics	p values
JX3 ← Job Characteristics	0.901	0.800	0.054	14.850	.000
JX5 ← Job Characteristics	0.627	0.446	0.066	6.749	.000
OC1 ← Organizational Climate	0.927	0.643	0.021	29.971	.000
OC4 ← Organizational Climate	0.858	0.470	0.014	32.777	.000
PF1 ← Physical Factors	0.736	0.403	0.027	24.096	.000
PF3 ← Physical Factors	0.708	0.324	0.036	18.913	.000
PF4 ← Physical Factors	0.865	0.548	0.012	26.304	.000
Psyc2 ← Psychological Factors	0.678	0.315	0.024	13.108	.000
Psyc3 ← Psychological Factors	0.522	0.359	0.027	13.338	.000
Psyc5 ← Psychological Factors	0.899	0.667	0.026	25.575	.000
RS1 ← Reward System	0.855	0.350	0.017	33.515	.000
RS2 ← Reward System	0.860	0.378	0.012	36.678	.000
RS4 ← Reward System	0.932	0.402	0.010	40.894	.000
RO2 ← Retention Outcomes	0.771	0.576	0.025	50.944	.000
RO3 ← Retention Outcomes	0.835	0.666	0.010	30.176	.000

was assessed to determine the convergent validity, and as shown in Figure 2, all the AVE for the study variables are all above the 0.5 thresholds (Fornell & Larcker, 1981; Usakli &

Kucukergin, 2018). The internal consistency of the model was evaluated using the CR, and as shown in Figure 3, the CR values are all above the 0.7 threshold value.

Table 8. Direct Relationships for Hypothesis Testing and Model Fit.

Hypotheses	Relationship	Standard β	SE	[t-value]*	p values
H ₁	Job Characteristics → Retention	0.282	0.033	15.459*	.000*
H ₂	Organizational Climate → Retention	0.257	0.042	9.124*	.000*
H ₃	Physical Factors → Retention	0.381	0.056	10.311*	.000*
H ₄	Psychological Factors → Retention	0.215	0.041	4.993*	.000*
H ₅	Reward System → Retention	0.118	0.068	3.782*	.000*
R ²				.896	
Adjusted R ²				.895	

*Significant at $p < .05$.

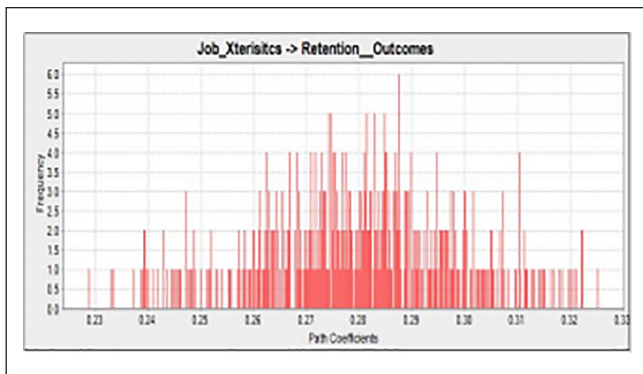


Figure 7. Path coefficient histogram between job characteristics and retention outcomes.

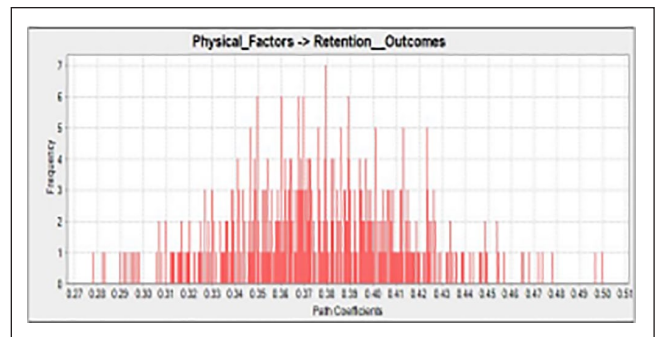


Figure 9. Path coefficient histogram between physical factors and retention outcomes.

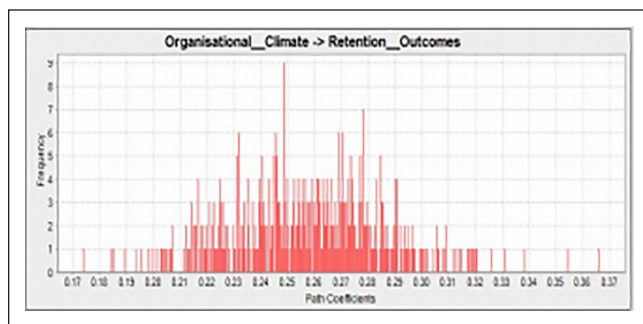


Figure 8. Path coefficient histogram between organizational climate and retention outcomes.

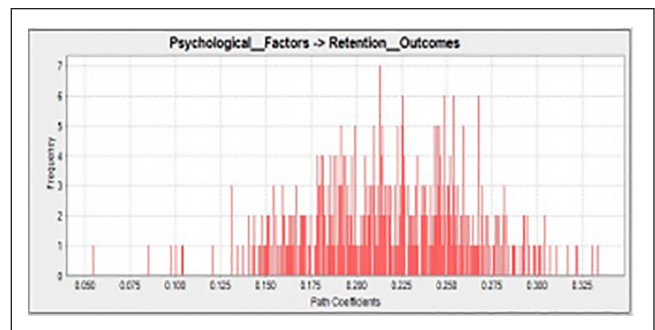


Figure 10. Path coefficient histogram between psychological factors and retention outcomes.

Discussion

The finding of this study shows that work environments contribute 89.6% to the retention of the academic staff of state universities in southern Nigeria. The current finding indicates that the work environment has a positive and significant effect on the retention of academic staff. This supports the findings of Ng’ethe et al. (2012) and Saka and Salami (2014) who indicated that favourable and conducive work environments were necessary for human resource development practices, which positively affect the employee performance. This study also indicated that physical work milieu (i.e., desks, chairs, shelf, office arrangement, lighting, ventilation) and job

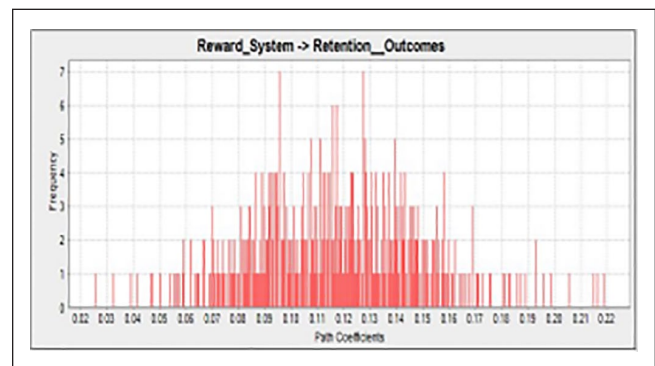


Figure 11. Path coefficient histogram between the reward system and retention outcomes.

Table 9. Discriminant Validity Check Using Fornell—Larcker Criterion.

Variables	(J_C)	(O_C)	(Phy_F)	(Psy_F)	(R_S)	(W_E)
Job Characteristics (J_C)	0.776					
Organizational Climate (O_C)	0.083	0.893				
Physical Factors (Phy_F)	0.236	0.540	0.772			
Psychological Factors (Psy_F)	0.105	0.665	0.758	0.797		
Reward System (R_S)	0.107	0.768	0.647	0.758	0.883	
Retention Outcomes (R_O)	0.428	0.721	0.746	0.731	0.759	0.804

Table 10. Collinearity Statistics—VIF.

Variables	Retention outcomes (VIF)
Job Characteristics (J_C)	1.054
Organizational Climate (O_C)	1.574
Physical Factors (Phy_F)	1.320
Psychological Factors (Psy_F)	1.191
Reward System (R_S)	2.473

Model fit summary	
SRMR	0.163
d_ ULS	3.204
d_ G1	111.569
d_ G2	34.722
Chi-square	83.622
NFI	0.921

Note. VIF < 5—Acceptable (no strong indication of multi-collinearity). VIF = variance inflation factor; SRMR = standardised root mean residual < 0.08; NFI = normed fit index > 0.9.

characteristics (i.e., task identity, task significance, skill variety, autonomy, feedback) were the most significant predictors of retention among academic staff of selected universities. Extant literature has revealed that typically, these variables are positively related to job performance, job satisfaction and employee engagement (Khalid et al., 2012; Quartey, 2012). Hence, H1 and H2 are accepted. Some of the studies have been carried out in accordance with the hypothesis mentioned earlier. Gul et al. (2012) examined the effect of the physical work environment in the Pakistani private banking sector. They found that the physical work environment has a moderate impact on employee performance. In another aspect, a study was carried out by Kenya commercial banks to look at the role of job contents on the productivity of employees (Wanyama & Mutsotso, 2010). The results show a good correlation between job contents and employees' productivity ($\beta < .48, p < .05$). By implication, this implies that the only secret to achieving outstanding performance in Nigerian institutions has been substantial investment in the physical work environment and clarity of job characteristics.

Based on the impact of organizational climate on the retention of the academic staff of selected universities, the finding from this study shows positive β value .257, which tells that the organizational climate contributes 25.7%. This

shows that the relationship is not only positive but also has a significant effect on the retention of academic staff. So, H3 is accepted. Some other studies are conducted related to the above-discussed H3, such as Adeniji (2011) has already worked on organizational climate and performance in the public universities, Nigeria. They have found positive β value of .231, which means the independent variable has a 23.1% contribution to employee performance.

The result of this study shows that when academic staff are attracted to extrinsic and intrinsic motivating factors, it helps them to stick with the organization and never think of leaving. The satisfaction of every employee helps to reduce the turnover level in the organization, and this will help to build the corporate image of the institutions. The findings corroborate with existing works. The study conducted by Abdulla et al. (2010), Bozeman and Gaughan (2011), and Ibrahim et al. (2013) argued in support of the findings that external reward, which is salary, serves as a major factor that motivates an employee, compared to incentives. This contention was agreed by Adeniji et al. (2018) where they expressed that salary should be considered a top priority in order to satisfy the employees effectively. From the research conducted by Daneshfard and Ekvaniyan (2012), they uncovered that improving the welfare system of an organization is the best way to minimize the number of employees that leave the organization. When the welfare system of an organization is poor, the employee feels less motivated and therefore tries to leave the organization for a better life. No one wants to stay in a less motivating environment.

Conclusion

It can be concluded that manpower in the right quantity and quality are sine-qua-non to a nation's development. Unfortunately, the dearth of manpower characterized public institutions in Nigeria, which is worsened by the problem of staff retention. The issue of retention outcomes was examined, with a focus on factors influencing it, such as poor conditions of service, poor infrastructural facilities, and limited research funding, among others. An exodus of lecturers from state universities in Nigeria constitutes a loss of resources invested in their training. The cost of replacing the academic staff is also high and serves as a burden to government as well as a threat

to the limited finance flow to the education sector. At present, it is disturbing that Nigeria's universities are rated low in the world ranking. One of the conditions for ranking universities is the quantity and quality of academic staff in stock. Due to its consequences, strategies for curbing this menace in state universities, such as the creation of enabling environment, adequate funding of tertiary education, noninterference of government in institution's affairs, effective administration, and motivation of staff of tertiary institutions, among others were also discussed. It is hopeful that if the strategies are adopted and implemented by government and institutions' administrators, the menace will become a thing of the past. At the same time, the state of public universities will improve from the status quo in Nigeria.

The study found that many lecturers, including professors, shared offices that are dilapidated, out of ventilation, and poorly furnished. Lecture theaters were overcrowded and classrooms, laboratories, and workshops were shared by many programs across different faculties. The respondents also explained the deplorable state of most classrooms—the fundamental teaching infrastructure of any learning institution. It was identified that fewer than one in the six sampled universities had videoconferencing facilities, less than 20% made use of interactive boards, “and even the ones that are deployed are found in less than 10% of lecture rooms and theatres.” Fewer than half of the universities used public address systems in lecture halls.

Presently, there are many professors in many universities in Nigeria while there are those already due for the professorial position. Those with PhD and other lower qualifications might thus not have the chance to grab any opportunity where these senior staff exist. As the junior staff wish to rise to the positions, many often leave for other tertiary institutions where they have better opportunity/chances. What can be noticed is the rate in which lecturers are leaving the state-controlled institutions to be private and federal universities in Nigeria because of better opportunities to rise to top positions in such institutions. The perennial problem of having enough academics to teach an ever-growing student population was closely examined. This was expected because almost all the sampled institutions have endured lecturer shortages. There is also a growing disparity in the ratio between teaching staff and students.

The issue of research funding leaves much to be desired. Although most of the respondents were not happy with the compensation packages and promotional opportunities in the sampled universities, it was indicated that promotion opportunities are given based on favoritism and godfatherism. This is one of the factors that affect their retention outcomes. Many pieces of research had been abandoned due to inadequate funds which often demoralizes lecturers and forced them to leave for foreign countries where the opportunity for such abound. In an ideal situation, the staff of the tertiary institution who are qualified for promotion supposes to be promoted and when due. Surprisingly, the findings indicate

the situations where the staff of sampled institutions will not be promoted due to one reason or the other, particularly when he or she has an axe to grind with management. These often lead to staff leaving their institutions for another where their regular promotion can be guaranteed.

This study revealed that reward significantly contributes to academic staff retention. Surprisingly, our statistical analysis revealed that the reward system is the least significant predictor of retention among academic staff. This implies that the management of the selected institutions needs to develop an equitable and competitive salary administration that will consequently reduce the incessant level of turnover intentions, undue extortions, and low productivity. This result supports exiting research. The use of reward has become indispensable in stimulating performance. Armstrong (2009) and Hafiza et al. (2011) contended that reward which is interchangeably used with compensation system often play an indispensable role in encouraging staff physically, emotional and psychological. Hashim and Mahmood (2011) and Ogunbameru (2012) concluded that adequate reward system often leads to greater commitment.

It is important for sampled institutions to deliberately entrench fairness in the outcome allocation system and also work out ways of improving and sustaining good manager-associate relationship as it promotes commitment to academic staff. A good horizontal relationship must be encouraged as it promotes friendliness and mutual respect within a diverse and multicultural workforce as well as group cohesion; this leads to commitment at the end. The research has shown that work environments significantly contribute to retention outcomes of academic staff in Nigerian State Universities. However, it was indicated that job contents, rewards, and organizational climate are the significant predictors of staff retention outcomes. It is evident from this study that the provision of enabling work environment will eventually lead to staff satisfaction, loyalty, productivity, commitment, and involvement in the educational sector.

Recommendations and Policy Implications

Our study offered valuable context of ideas, facts, and figures that can be adopted by researchers, practitioners, government, NUC, and other stakeholders in management education to explore the dynamics and resultant effects of work environments on retention outcomes. The study offers an inclusive understanding into organizational factors that impact on retention outcomes of academic staff using state universities in southern Nigeria.

Based on the findings of the study, the following recommendations were proffered:

1. Institutions should endeavor to invest more in creating a physical work environment. The problem of erratic power supply should be looked into with a

stimulating spatial arrangement. Attention must also be given to the provision of basic infrastructures such as buildings, classrooms, laboratories, workshops, administrative blocks, and furniture.

2. On the promotional system, the study recommends that management of University education should consistently show more significant concern for academic career advancement programs as observed by the junior staff. Management of the universities should wholly avoid the use of mediocrity and favoritism for promotion and career advancement. The institutions can adopt an objective performance appraisal as a basis for granting merit, increasing pay of employee as well as promoting employee with the view of increasing their level of productivity.
3. The management team of the organization should strive to introduce a satisfactory motivational package that will stimulate commitment and performance of academic staff. The government should allocate sufficient fund to education, at least to meet up to 26% recommended by UNESCO. Management should make sure that compensation packages for university lecturers are equitable, impartial, and competitive. The management should continually organize workshops or seminars with work-related facilities to update their staff skills, knowledge, abilities, and competencies.
4. Finally, the Ministry of Labour, Employment and Productivity should device various alternatives to resolve pressing issues between the unions (ASUU) in the universities and governments to prevent recurring labor unrest. The management team should endeavor to adopt participative governance to promote peaceful coexistence and industrial harmony.

The major policy implications for the state universities were identified as follows:

1. Institutional policies tailored toward ensuring proper reward systems could bring about higher satisfaction and productivity of the tertiary institutions, mainly because the provision of adequate reward systems serve as stimulating factor and predictor for staff commitment, satisfaction, and productivity.
2. Policies on infrastructural should be targeted at enhancing favorable physical work settings which facilitate the commitment of competent staff. However, if it is not taken into consideration, it could lead to job dissatisfaction and low productivity.

Limitations and Future Research

1. The sample from which the population was drawn comprised 19 public (state) universities in southern Nigeria (NUC, September 2015). Because this population study was restricted to southern Nigeria, it can

be suggested that other public (state Universities) institutions in Northern Nigeria and so on can further be studied. Studies can also be conducted using the federal universities within southern or northern Nigeria. Future research can explore the relationship between work environments and retention outcomes using private and federal universities in Nigeria. This will also help to compare the perceptions of the university lecturers in the two categories of schools.

2. This study employed quantitative methods for data collection. Further studies could employ the use of in-depth interviews as qualitative data collection process to enrich the data collection process. For further studies, the authors suggested that future researchers should consider virtual workspace along with physical workspace and psychological as this variable has a sociotechnological role that disrupts higher education. Finally, the quantitative aspect of this research adopted survey method of data collection other studies could consider carrying a study involving a longitudinal data collection process to provide a reliable confirmation of the relationships identified in this study.

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