# ORGANISATIONAL JUSTICE AND LIBRARIANS' DIGITAL SECURITY BEHAVIOURS IN UNIVERSITIES IN SOUTH-EAST, NIGERIA

# **Article History**

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#### Abstract

The study focused on Organisational Justice and Librarians' Digital Security Behaviours in Universities in South-East, Nigeria. The study adopted a survey design, with a sample of two hundred and ninety-five respondents, of which two hundred and forty-one were returned and used for this study. A structured questionnaire was the instrument for data collection with a return rate of 82%. The data generated were analyzed using simple percentages, frequency tables, mean, standard deviation, and regression analysis. The study used descriptive and inferential statistics. The result revealed that among the security behaviour indicators, top on the list of digital security behaviours commonly practiced by librarians in university libraries in South-East, Nigeria was securing mobile devices ( $\overline{x} = 4.15$ , SD = 1.019), antivirus protection ( $\overline{x} = 4.15$ ), and  $\overline{x} = 4.15$  ( $\overline{x} = 4.15$ ), and  $\overline{x} = 4.15$  ( $\overline{x} = 4.15$ ). 3.88, SD = 1.178), scheduled backups ( $\overline{x} = 3.76$ , SD = 1.227) and firewall ( $\overline{x} = 2.85$ , SD = 1.403). The findings also revealed that strong passwords (x = 2.5082; SD = 1.303) and securing laptops were sometimes practiced whereas the respondents do not participate in annual security awareness training. Findings further showed that all the three dimensions of organizational justice indicated high; interactional justice with highest mean of  $(\overline{x} = 3.73, SD = 0.960)$ , distributive justice ( $\overline{x} = 3.62$ , SD = 0.952) and procedural justice with lowest mean of ( $\overline{x} = 3.49$ , SD = 1.043). The study further shows that organizational justice has a positive and significant influence on librarians' security behaviour in university libraries in South-East, Nigeria ( $R^2 = 0.126$ ,  $\beta = 0.355$ , t (239) = 5.872, p < 0.05). The study concluded that organizational justice, play important roles in enhancing and ensuring librarians' digital security behaviours in university libraries in South-East, Nigeria. The study recommended among others that university libraries management in collaboration with the university authorities should endeavour to sustain and possibly improve the level of organizational justice in their libraries. Furthermore, library authorities should ensure that librarians are sensitized on the importance of using strong password in their computers, making sure backups are done regularly.

**Keywords**: Organizational justice, digital security, information security, cybersecurity, librarians

#### INTRODUCTION

Libraries are under constant attack from internal and external threats that put the integrity, availability and confidentiality of their information at risk. Amidst the digital era, university libraries, organizations, have encountered a growing risk of security threats, including data breaches, rules and regulations, ransomware attacks, and social engineering exploits, prompting them to adopt heightened vigilance to safeguard their assets (Michael, 2023). Librarians' security behaviour is defined as the

behaviour of librarians in using organizational information systems (including hardware, software, and network systems), and such behaviour may have security implications. Examples of employee security behaviour include how members of staff handle their passwords, how they deal with organizational data, and how they use network resources. Reis, Oliha, Osasona, & Obi, (2024) also observed another notable escalation in cyber threats, particularly phishing, ransomware, and insider attacks which may pose security threats in the organization.

Following the analysis of data published by the UK Information Commissioner's office, identified that, 64% of reported information security incidents and breaches across all sectors were likely to be the result of human error. Therefore, there is a need to understand the role that improved librarians' digital security behaviours in the defense of organizational information security in the university libraries. One such approach is to study the relationship between information sensitivity and security behaviours in the workplace, which is directly the goal of all organizations in order to minimize the threat of data breaches (Blythe, 2022). Some of the librarians' security behaviour indicators that guide the study as reviewed from the literature include strong password, firewalls, secure mobile devices, Antivirus protection, secure laptops, and schedule backups. These measures can be achievable when librarians feel there is fairness in resource allocation, decision-making and interpersonal interaction within the university libraries in South-East. However, the capacity of a librarian to be security conscious could be influenced by other factors which is the organizational justice exhibited in his/her university library.

Organizational justice is defined as a perception of fairness in the workplace where resource allocation, decision-making, and interpersonal interaction in an organization is considered to be either fair or unfair (Caron, et al. 2013). It is thus concerned with workplace behaviour especially from the way and manner supervisors treat their subordinates with regard to pay (salaries, wages, and

rewards), organizational procedures (policies, decisionmaking) and interpersonal relationship. This further shows that justice or fairness is important to employees because more often they try to work in an environment where there is free flow of information between supervisors and among workers, where employees are treated with respect, and where there is transparency in decision making, adequate rewards, and organizational procedures.

Organizational justice is seen as a fundamental requirement that encourages librarians' security bahaviour and organizational success.

Ghasi, Ogbuabor, & Onodugo, (2020) conceptualized organizational justice in three dimensions: distributive justice, procedural justice and interactional justice. Distributive Justice refers to perceived fairness of how outcomes and resources are distributed among employees in organizations. Employees compare their outcomes such as pay, promotion and access to resources and inputs with their peers within and outside their organizations. A positive perception of distributive justice improves organizational attachment, identification and involvement. In contrast, distrust, disputes, disrespect and demotivation of employees occur when benefits are assigned in unfair manner. Procedural justice refers to perception of fairness in the decision-making process, including motives, methods, mechanism and processes used in determining outcomes, and comprise: voice and process control perspectives. Voice involves opportunity to be heard and taken into consideration, while process control entails opportunity to influence information used in decisionmaking. Organizations should tolerate opinion of employees, make decisions based on consistent approach and correct information, exhibit impartiality, avoid favoritism and remain ethical, provide effective feedback, and explain decisions to employees. When decisionmaking is perceived as fair, performance improves due to increased job involvement, organizational commitment, trust and cooperation among employees.

Interactional justice refers to employee perceptions of fairness of interpersonal treatment they are subjected to during decision-making procedures and comprises two dimensions: interpersonal and informational justice. Interpersonal justice entails how supervisors treat coworkers with respect and dignity. Informational justice implies how supervisors share information with their subordinates relating to their tasks. Derogatory judgements, deceptions, abusive actions, public criticism and coercion result in decreased perception of interactional justice.

Organizational justice is therefore an individual's perception of the level of fairness with which he/she is treated by the organization. Librarians care about justice because fair actions and processes make them feel valued and motivated to perform, thus making organizational justice imperative in improving operational efficiency of university libraries (Ghasi et al., 2020; Gile, Samardzic, & Van De, 2018). Librarians' digital security behaviour to the organization will depend on the fair treatment they receive from their workplace. Librarians aspire to be contented and work in an environment that provides rewards for the discharge of their duty, ensures enacted policies are applicable to every employee irrespective of his/her level and good relationship with supervisors and workmates. Librarians' perception of organizational justice has an important role in organisations because negative perception of justice may affect the organization particularly in the area of influencing and providing instructions to employees (Selvitopu and Sahin, 2013).

Anecdotal and empirical evidence show that librarians' security behaviour is poor and has manifested in such behaviour in the university library such as spam mails, identity thefts, phishing, data leakage (Thecla & Chinelo, 2020; Campbell, 2016). Such threats also include website defacement, espionage, theft of intellectual property, Denial-of-service (DoS) attacks, and destructive malware (Verge, 2013). Other similar insecure behaviours such as writing down passwords carelessly, delaying a backup, and

sending unencrypted emails were also noted (Ying & Mikko, 2019) alongside obnoxious patron behavior (Lincoln, 1984).

While the identified factors that have resulted in the security breaches of librarians in public, private and state universities in South-East, Nigeria, may be true, other factors such as organizational justice which has been identified as factor influencing librarians' attitudes and behaviors in the university library, and they are generally influenced by the organizations' fairness or unfairness related behaviours, decisions, and actions. Mayowa-Adebara (2018), noted that perceived unfairness in the library environment leads to carelessness and a lack of dedication from library personnel, as well as plans to leave. Librarians, on the other hand, perform well when the university libraries management is thought to be fair. This means that librarians' perceptions of the library justice may have a direct impact on their overall happiness, commitment, and safety which could also exacerbate librarians 'digital security behaviour. This factor is yet to be tested for its empirical influence. This is the gap that this study is attempting to fill. Therefore, this study investigated the influence of organizational justice, on librarians' security behaviour in university libraries in South-East, Nigeria.

# Objective of the Study

The general objective of the study is to investigate the influence of organizational justice on librarians' digital security behaviour of librarians in university in South-East, Nigeria. The specific objectives are to:

- find out the security behaviour exhibited by librarians in universities in South-East, Nigeria;
- 2. find out the level of organizational justice among librarians in universities in South-East, Nigeria;
- determine the influence of organizational justice on security behaviour of librarians in universities in South-East, Nigeria;
- 4. find out the challenges of the security behaviour of librarians in universities in South-East, Nigeria.

# **Research Questions**

- 1. What are the security behaviour exhibited by librarians in universities in South-East, Nigeria?
- 2. What is the level of organizational justice among librarians in universities in South-East, Nigeria?
- 3. What are the challenges of security behaviour of librarians in universities in South-East, Nigeria?

# **Research Hypothesis**

Considering the objectives of the study and the research interest, one hypothesis has been postulated for the study and was tested at 0.05 significance level.

Ho<sub>1:</sub> Organizational justice has no significant influence on librarians' digital security behaviour in universities libraries in South-East, Nigeria

#### REVIEW OF RELATED LITERATURE

#### Librarians' digital Security Behaviour

The concept of librarians' digital security behaviour was are viewed in various ways by researchers such as: employees security behaviour, information security, cybersecurity, computer fraud and security, information security behaviour, and cybercrime. Guo (2013) defined employees security behaviour as the behaviour of employees in using organizational Information System (IS) (including hardware, software, and network systems etc.), and such behaviour may have security implications, examples of employee security behaviour include how members of staff handle their passwords, how they deal with organizational data and how they use network resources, and this behaviour may either pose organizational IS security threats. The two types of employee security behaviour that will be examine is compliant behaviour (i.e. adhering to the policies, procedures, and norms of an organization in relation to information security) and non-compliant behaviour (i.e. intentional but no malicious behaviours of employees that may put organizational information security at risk and entail non-compliance to the policies, procedures and

norms of an organization in relation to information security).

Librarians' digital security behaviour represents the protection of information/data systems and information from potential unauthorized access, use, disclosure, disruption, modification, perusal, inspection, recording or destruction. Thus, the information security becomes part of our lives. Librarians'digital security is influenced by the people who use them and the same technologies that enable these processes in accordance with which it takes place. The increasing influence of thinking about information security policies indicates the width and complexity of the content that is being covered. Information security can be defined as a state of condition of confidentiality, integrity, and availability of data, which is achieved by applying certain standards and measures, and organizational support for business planning, implementation, verification, and updating of standards and measures (Narodne 2007). The aim of information security is activities is the detection and prevention of non-authorised information technology user activities such as librarians from malicious behaviours against organization assets that they are supposed to protect (Gollmann 1999). Chang and Lin (2007) stated that information security is a social and organizational problem since technical systems must be operated and used by people.

University libraries are vulnerable to security risks from the private and public population, and members of the university community, both students, faculty and staff, can pose security problems. Security issues in university libraries are numerous. These include; data breaches, rules and regulations, ransomware attacks, and social engineering exploits, prompting them to adopt heightened vigilance to safeguard their assets (Michael, 2023). The common way to prevent external attacks is an implementation of technical security controls, including firewalls, anti-malware software, and authentication controls. These measures are widely employed by organizations and are largely effective. On the other hand,

an insider threat refers to an intentional or unintentional misuse of an organization's information system by employees that may negatively affect the confidentiality, integrity, or availability of that organization's vital information. Maintaining employees' compliance with information security rules is a more problematic matter as technical controls are unable to prevent all human blunders. For instance, employees tend to write passwords down, share them with colleagues or send confidential information in an unencrypted form. It is estimated that at least half of information security breaches are made by (1) internal personnel, (2) deviant behaviour is best managed with a combination of technical and social measures. Overcoming the issue of "human error" has received considerable attention in Behavioural Information Security research. Various approaches designed to improve employee security behaviour have been suggested by Information Security scholars. These range from security awareness programmes (3) and security education and training (4) to approaches that take into account deterrent (5) as well as cognitive factors (Posey et al, 2016). Some of the Librarians' security behaviour indicators that will guide the study as review from literature include strong password, firewalls, antivirus protection, secure mobile devices, secure laptops, and schedule backups.

# **Organizational Justice in Libraries**

Organizational justice is vital for both organizations and societies at large. Adewoyin (2020) cited Yang and Cho (2017) defined organizational justice as the sense of fairness and equality on features of organizational policies and regulations relating to individual interests perceived by members of the organizations. Similarly, Noruzy et al., (2011) defined organizational justice as the individual's perception of fairness in organizations, his behavioural reaction to such perceptions and how these perceptions affect organizational outcomes such as organizational values and work environment. Organizational justice is the term used to describe the role of fairness as relate to the workplace (Aboagye, 2015). Adzie (2016) avers that

organizational justice is a vital element and a predictor of organizational success. According to him, workers who perceive that their organizations are fair and just in their rules, policies, interactions and distribution systems give better response to the organizations by way of their positive behaviours and productivity. Social concepts such as equity, fairness and organizational justice play an important role in employees 'evaluation of their own workplace environment (Turgut et al., 2012).

Baba and Ghazali (2017) opine that organizational justice comprises of the workers' extent of acceptance of managerial treatment in a business enterprise. According to them, justice in an organization perspective demands that the head of department called the (University librarian and managers) must see through the eyes of their subordinates such as heads of units in various sections of the library, workers in different companies organizations as the case may be. Organizational justice refers to the extent to which librarians perceive outcomes, procedures and interactions to be fair. In order to keep librarians' satisfied, committed, and loyal to the organization, the organizations need to be fair in their systems of distributive, procedural, and interactional justice (Usman and Jamal, 2013). Organizational justice is an essential factor that determines organization success. Greenberg (1990) divided interactional justice into two parts; interactional justice which involves the extent to which supervisors or executors treat employees with politeness, sincerity and respect during the enactment of organizational procedures and decision making; while informational justice refers to whether supervisors communicate or deliver and explain information to employees on the reason why certain distributive procedures are adopted and why distributive results turn out in a particular way. Adzie (2016) is of the view that employees give better response to their organization when they consider that the organization is fair and just in its rules, policies, interactions and distribution systems.

According to him, enhancing organizational justice results in improved outcomes from employees.

Adewoyin (2020) in her study investigated the influence of organizational justice and job satisfaction organizational commitment of library personnel in public universities in south-west Nigeria. A survey research design was adopted for the study. The population of the study was 346 library personnel in public universities in south-west Nigeria. Total enumeration was used. Findings showed that organizational justice had significant influence on security behaviours of librarians. Findings also revealed that distributive justice and interactional justice significantly influenced librarian's consciousness on safeguarding laptop and information/data therein, while procedural justice was not significant. It was also recommended in the study that, library management should create an enabling environment and ensure regular promotion of the librarian's. Library management should involve the librarians in decision-making processed and allocation of rewards to enhance the perception of organizational justice.

Babalola & Soyemi, 2014; Straub, 2004, in their study Effective "Strategies for Information Security Management in Nigerian Universities" opine that employees, who have an axe to grind with their organisations either often take their anger out on the system. This was also supported by two national studies, (Stanton, Mastrangelo, Stam & Jolton. 2004). "Behavioral information security: Two end user survey studies of motivation and security practices," Proceedings of the tenth Americas conference on information systems found that job satisfaction and organizational commitment are among the factors that determine information security behaviour of employees. Lack of job satisfaction naturally reduces organizational commitment which might lead to careless or carefree attitude towards information security issues. Besides, adhering to information system policies requires some efforts on the part of users and could be sometimes inconvenient. Hartwig &.Wilkinson (2014)

also find out that Employees who are dissatisfied with their jobs may not be willing to exert such efforts in obeying information security rules. Incidentally, insiders accounts for up to 30% of information security breaches in organizations

Ajala (2016) investigated the perceived correlation between organization justice and employees' organizational citizenship behaviours in the civil service of Ondo and Oyo State, Nigeria. The descriptive survey research was used for the study. The population of the study consists of employees of the civil service of Ondo and Oyo States, Nigeria. Simple random sampling technique was used to select five parastatals from the civil service of both Ondo and Oyo States. The selected parastatals are Education, Local Government Board, Establishment, Finance and Youth & Social Development. Fifty respondents were randomly selected from each parastatal to make a total of one hundred and fifty respondents from each state and a grand total of three hundred respondents for the research. Findings showed that there was significant relationship between distributive justice and librarian's security behaviour, there was significant relationship between procedural justice and librarian's behaviour and there was significant relationship between interactional justice and librarians' behaviour. And it was recommended that management should ensure and establish organizational justice procedure for fair treatment and good interactions among co-workers and between management and employees so that employees can deeply initiate, collaborative and high-quality standard in their workplace behaviours. Also, it is recommended that there should be adequate presence of organizational justice at the workplace which will help in reducing absenteeism, turnover, and counter-productive behaviours thereby making employees do justice to their work responsibilities.

#### Theoretical Framework

The General Deterrence Theory (GDT) is used to describe the Librarians' Digital Security Behaviour variable. The Deterrence theory of punishment can be traced to the early works of classical philosopher Cesare Beccaria (1738-1794). This theory justifies that procedural security countermeasures which are factors that tend to increase employee information security awareness in the organizations information security, are the requirements of security threats and consequences of illicit actions inclined to lead to compliant behaviour. That is, procedural security countermeasures influence employee security behaviour indirectly through employee security awareness. The GDT employed both negative and positive behaviours of employee in the organization. The theory of deterrence relies on three individual components: severity, certainty and celerity of sanctions. Based on the rational choice view of human behaviour, GDT is based upon the central proposition that illicit behaviour can be controlled by the threat of sanctions. Therefore, GDT focuses on disincentives against committing a criminal act and the effect of these disincentives on deterring others from committing deviant acts. The relevance of the theory to the study is that if a punishment is severe, certain and swift, librarians as rationally calculating human being will measure the gains and losses before engaging in crime and will desist from a criminal act if the loss is greater than the gain.

#### METHODOLOGY

The study adopted the survey research design. The population for this study comprised of two hundred and ninety-five (295) professional librarians who have a first degree, a master's degree, and a Ph.D. in library and information science and other related field of information studies from the twenty-five (25) universities; Federal (6), State (5), and Private (14) owned university libraries in the South-East geopolitical zone in Nigeria. Total enumeration method was used due to the manageable size of the population of librarians under investigation to give comprehensive coverage of all librarians in all the universities in South-East Nigeria, therefore there was no sample for this study. A well-structured questionnaire was used to obtain data for this study, out of 295 questionnaires distributed, 241 were returned and used for analysis. Data collected were analyzed using simple percentage and frequency tables, and finally, regression with the aid of Statistical Product and Service Solutions (SPSS) was used to test the stated hypothesis. The methods used for testing hypothesis were simple and multiple regression analysis done at 0.05 significant levels.

#### Results

Research Question One: What security behaviour is exhibited by librarians in University in South-East, Nigeria?

Table 1 Librarians' Security Behaviour

Security Behaviour	Always	Sometimes	Hardly	Never	Undecided	Mean	Std.
Secured Mobile Devices	4.15	1.019					
I lock my computer when I	95	132	8	0	6	4.29	0.756
leave my office	(39.4%)	(54.8%)	(3.3%)		(2.5%)	4.29	0.730
I prevent others from having	110	94	21	3	13	4.18	1.025
access to my phone	(45.6%)	(39.0%)	(8.7%)	(1.2%)	(5.4%)	4.18	
I use trusted to websites work	102	94	14	1	30	3.98	1.275
	(42.3%)	(39.0%)	(5.8%)	(0.4%)	(12.4%)	3.98	
Antivirus protection	Antivirus protection						
I usually logout my online	117	97	11	8	8		
accounts when I use other	(48.5%)	(40.2%)	(4.6%)	(3.3%)	(3.3%)	4.27	0.944
people's devices							
I always use antimalware	81	106	22	4	28		
(antivirus) applications on my	(33.6%)	(44.0%)	(9.1%)	(1.7%)	-	3.86	1.236
digital devices					11.6%)		

On digital devices   (31.5%)   (42.7%)   (11.6%)   (2.9%)   (11.2%)   5.80   1.22	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	176	T 100	1.20	1.5	1 27	ı	
Isasy informed about security   71   110   13   15   29   (12.0%)   3.77   1.28   1.16   1.28   1.18   26   1.5   24   3.71   1.15   1.15   29   (12.0%)   3.71   1.15   3.76   1.22   3.76   1.22   3.76   3.76   1.22   3.76	I regularly update the antivirus	76	103	28	7	27	3.80	1.235
Insks online in the workplace   (30.7%)   (45.6%)   (5.4%)   (6.2%)   (12.0%)   5.77   1.28								
Independing scan may digital devices for malware   (24.1%)   (49.0%)   (10.8%)   (6.2%)   (10.0%)   (3.71   1.15   1		· ·				-	3.77	1.283
Schedule Backups			` '					
Schedule Backups							3.71	1.190
always back up my personal data and documents as soon as 1 (27.0%) (58.9%) (5.4%) (5.4%) (5.4%) (4.6%) 4.00 0.95 and done with my work luse trusted devices in my place of work   123   111   8   8   30   (12.4%)   3.80   1.24   12   (2.86%) (41.5%) (10.0%) (5.0%)   3.30   (12.4%)   3.80   1.24   12   (3.3%) (41.5%) (10.0%)   (5.0%)   3.20   (13.3%)   3.71   1.31   1.31   7   20   (4.6%) (4.6%)   (4.6%)		(24.1%)	(49.0%)	(10.8%)	(6.2%)	(10.0%)	2.76	1.005
data and documents as soon as I am done with my work   I use trusted devices in my place of work   (28.6%)   (51.0%)   (41.6%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (13.		3.76	1.227					
am done with my work   1 use trusted devices in my place of work   3							4.00	0.051
Lise trusted devices in my place of of work   (28.6%)   (51.0%)   (4.6%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (12.4%)   (3.3%)   (41.5%)   (10.0%)   (5.0%)   (3.3%)		(27.0%)	(58.9%)	(5.4%)	(5.4%)	(4.6%)	4.00	0.951
Deference   Care   Ca		60	122	11	0	20		
Backups of information are conducted and maintained periodically   1							3.80	1.246
Conducted and maintained periodically   Conducted and maintained periodical   Conducted and main		`	` '			(12.4%)		_
Periodically   I have response plans as well as continuity plans in place in case of security breach   Security breach   Security preach						32	2.71	1 210
There response plans as well as continuity plans in place in case of security breach   113		(30.3%)	(41.5%)	(10.0%)	(5.0%)	(13.3%)	3./1	1.310
Continuity plans in place in case of security breach   C2.45%   C2.45%   C2.9%   C2.9%   C2.9%   C2.9%   C3.3%   C2.45%   C3.3%   C3.7%   C3.9%   C3.3%   C3.7%   C3								
Of security breach   C24.3%   C43.9%   C43.9%   C29.9%   C43.9%		59	113	7	20	42	2.52	1 400
Use of Firewall   1.00		(24.5%)	(46.9%)	(2.9%)	(8.3%)	(17.4%)	3.53	1.400
Tuse security applications like antimalware (antivirus) and (29.5%)   (41.9%)   (6.2%)   (3.7%)   (18.7%)   3.60   1.42				` ′	` ′		2.51	1.425
antimalware (antivirus) and firewalls on my digital devices   S   (41.9%)   (6.2%)   (3.7%)   (18.7%)   3.60   1.42		71	101	15		1.5	3.51	1.435
Firewalls on my digital devices   My organization use firewalls   S5   105   19   10   52   1.44   1.45   1.45   1.45   1.45   1.46   1.45   1.45   1.46   1.45					-		2.60	1 426
My organization use firewalls to restrict traffic into and out of network at strategic points   1.44		(29.5%)	(41.9%)	(6.2%)	(3.7%)	(18.7%)	3.60	1.426
to restrict traffic into and out of network at strategic points    Strong password   Care   C			107	10	10	50		
Network at strategic points   Strong password   Strong password   Received the privacy a norther to protect the privacy and security of my accounts.    Secure Laptops							2.42	1 444
Strong password		(22.8%)	(43.6%)	(7.9%)	(4.1%)	(21.6%)	3.42	1.444
I do not usually share my passwords and login credentials   (36.9%) (19.5%) (19.5%) (13.3%) (10.4%) (19.9%)   3.43   1.54							205	1.102
Design   Passwords and login   Credentials   Security protect the privacy a nd security of my accounts.   Secure Laptops   I often update software and applications on your laptop   I prioritize avoiding online and workplace security risks.   Cite Alban   Cite Alb		1	1	1	1		2.85	1.403
Tuse strong passwords (made up of at least 8 characters, including one capital letter, one small letter, one special character, and one number   I avoid opening emails from unknown senders to minimize phishing and security risks.   To never divulge my passwords i n order to protect the privacy a nd security of my accounts.   Secure Laptops   I often update software and applications on your laptop   I prioritize avoiding online and workplace security risks.   I follow established procedures for reporting security breaches involving my laptop   I get awareness of potential laptop security threats when using my laptop at work   I secure Laptos, and tablets, to maintain security and privacy.   I often updates, and tablets, to maintain security and privacy.   I often updates, and tablets, to maintain security and privacy.   I often updates, and tablets, to maintain security and privacy.   I often updates work and applications on your laptop   I get awareness of potential devices, including phones, computers, and tablets, to maintain security and privacy.   I often updates, and tablets, to maintain security and privacy.   I often updates when using my laptop at work   I often updates when using my laptop at work   I often updates with a contact of the privacy and tablets, to maintain security and privacy.   I often updates when using my laptop at work   I often updates when using my laptop at work   I often updates when using my laptop at work   I often updates with a contact of the privacy and tablets, to maintain security and privacy.   I often updates		89	47	32	25	48	2.42	1.540
Tuse strong passwords (made up of at least 8 characters, including one capital letter, one small letter, one special character, and one number   Tavoid opening emails from unknown senders to minimize phishing and security risks.   The rever divulge my passwords i norder to protect the privacy a nod security of my accounts.   Secure Laptops   Toften update software and applications on your laptop   Tight prioritize avoiding online and workplace security trisks.   Canal applications on your laptop   Canal applications on your la		(36.9%)	(19.5%)	(13.3%)		(19.9%)	3.43	1.548
up of at least 8 characters, including one capital letter, one small letter, one special character, and one number   1 avoid opening emails from unknown senders to minimize phishing and security risks.   1 never divulge my passwords i n order to protect the privacy a nd security of my accounts.   25		, ,	· ·	, ,		, ,		
including one capital letter, one small letter, one small letter, one special character, and one number  I avoid opening emails from unknown senders to minimize phishing and security risks.  I never divulge my passwords i n order to protect the privacy a nd security of my accounts.  Secure Laptops  I often update software and applications on your laptop I prioritize avoiding online and workplace security risks.  I follow established procedures for reporting security breaches involving my laptop I get awareness of potential laptop security threats when using my laptop at work  I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.  I avoid opening security risks.  19								
Small letter, one special character, and one number   1 avoid opening emails from unknown senders to minimize phishing and security risks.   1 never divulge my passwords i n order to protect the privacy a nd security of my accounts.   25		(39.4%)	(10.4%)	(14.9%)	(17.0%)	44	2.26	1.570
Small letter, one special character, and one number   I avoid opening emails from unknown senders to minimize phishing and security risks.   I never divulge my passwords i n order to protect the privacy a nd security of my accounts.   Secure Laptops   I often update software and applications on your laptop   I prioritize avoiding online and workplace security risks.   I follow established procedures for reporting security breaches involving my laptop   I get awareness of potential laptop security threats when using my laptop at work   I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.   I solution   I contact the privacy   I avoid opening my laptop   I get awareness of the procedures of th						(18.3%)	3.36	1.570
I avoid opening emails from unknown senders to minimize phishing and security risks.								
unknown senders to minimize phishing and security risks.         (7.9%)         (9.5%)         (29.5%)         (27.0%)         63 (26.1%)         2.46         1.20 (26.1%)           I never divulge my passwords i norder to protect the privacy a nd security of my accounts.         25         7         49         55 (22.8%)         105 (43.6%)         2.14         1.26 (43.6%)           Secure Laptops         2.82         1.30           I often update software and applications on your laptop         (34.9%)         (5.4%)         (32.0%)         (14.5%)         (13.3%)         3.34         1.42           I prioritize avoiding online and workplace security risks.         (27.4%)         (14.9%)         (18.7%)         (19.5%)         (19.5%)         3.11         1.48           I follow established procedures for reporting security breaches involving my laptop         55         37         48         57         44         (18.3%)         3.01         1.42           I get awareness of potential laptop security threats when using my laptop at work         21         13         93         72         42         2.58         1.10           I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.         (7.1%)         (7.1%)         (22.4%)         (30.3%)         90         2.08 <td< td=""><td></td><td>10</td><td>22</td><td>7.1</td><td></td><td></td><td></td><td></td></td<>		10	22	7.1				
Phishing and security risks.   I never divulge my passwords i n order to protect the privacy a nd security of my accounts.   25		-				63	2.46	1.200
I never divulge my passwords i   25   7   49   (20.3%)   (22.8%)   105   (43.6%)   2.14   1.29		(7.9%)	(9.5%)	(29.5%)	(27.0%)	(26.1%)	2.46	1.200
n order to protect the privacy a nd security of my accounts.   (2.9%)   (2.9%)   (20.3%)   (22.8%)   (43.6%)   (43.6%)   (23.8%)   (43.6%)   (22.8%)   (43.6%)   (23.8%)   (22.8%)   (23.8%)   (22.8%)   (23.9%)   (23		25	-	40		, ,		
Note   Secure Laptops   Secure Laptop   Secure Lapt						105	2.14	1.205
Secure Laptops   2.82   1.30     I often update software and applications on your laptop   (34.9%)   (5.4%)   (32.0%)   (14.5%)   (13.3%)     I prioritize avoiding online and workplace security risks.   (27.4%)   (14.9%)   (18.7%)   (19.5%)   (19.5%)     I follow established procedures for reporting security breaches involving my laptop   (22.8%)   (15.4%)   (15.4%)   (19.9%)   (23.7%)   (18.3%)     I get awareness of potential laptop security threats when using my laptop at work   (8.7%)   (5.4%)   (38.6%)   (29.9%)   (17.4%)   (17.4%)     I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.   (2.9%)   (7.1%)   (22.4%)   (30.3%)   (30.3%)   (37.3%)		(10.4%)	(2.9%)	(20.3%)	(22.8%)		2.14	1.295
I often update software and applications on your laptop	•						2.02	1 202
applications on your laptop   (34.9%)   (5.4%)   (32.0%)   (14.5%)   (13.3%)   (13.3%)   (14.5%)   I prioritize avoiding online and workplace security risks.   (27.4%)   (14.9%)   (18.7%)   (19.5%)   (19.		0.4	112	77	1 25	1 22	2.82	1.303
I prioritize avoiding online and workplace security risks.	_						3.34	1.420
workplace security risks.         (27.4%)         (14.9%)         (18.7%)         (19.5%)         (19.5%)         3.11         1.48           I follow established procedures for reporting security breaches involving my laptop         55         37         48         57         44         (18.3%)         3.01         1.42           I get awareness of potential laptop security threats when using my laptop at work         21         13         93         72         42         (17.4%)         2.58         1.10           I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.         7         17         54         73         (22.4%)         (30.3%)         90         2.08         1.06		` '						
I follow established procedures for reporting security breaches involving my laptop   1 get awareness of potential laptop security threats when using my laptop at work   17					1		3.11	1.489
for reporting security breaches involving my laptop  I get awareness of potential laptop security threats when using my laptop at work  I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.  (22.8%)  (15.4%)  (19.9%)  (23.7%)  (44  (18.3%)  3.01  1.42  (29.9%)  (38.6%)  (29.9%)  (17.4%)  (20.9%)						(19.5%)		
for reporting security breaches involving my laptop  I get awareness of potential laptop security threats when using my laptop at work  I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.  (22.8%)  (15.4%)  (19.9%)  (23.7%)  (18.3%)  (18.3%)  (18.3%)  (18.3%)  (19.9%)  (23.7%)  (18.3%)  (18.3%)  (19.9%)  (23.7%)  (18.3%)  (18.3%)  (19.9%)  (22.4%)  (20.9%)  (17.4%)  (20.9%)  (10.9%)						44	2.01	1 400
I get awareness of potential laptop security threats when using my laptop at work  I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.  I get awareness of potential 13 (8.7%) (38.6%) (29.9%) (72 (29.9%) (17.4%) (29.9%) (17.4%) (29.9%) (17.4%) (20.9%) (29.9%) (17.4%) (20.9%)		(22.8%)	(15.4%)	(19.9%)	(23.7%)		3.01	1.429
laptop security threats when using my laptop at work  I refrain from sharing my digital devices, including phones, computers, and tablets, to maintain security and privacy.    13	• • • •					<u> </u>		
laptop security threats when using my laptop at work (8.7%) (5.4%) (38.6%) (29.9%) (17.4%) 2.58 1.10 (29.9%) I refrain from sharing my digital 7 (29.9%) (7.1%) (20.4%) (30.3%) 90 (37.3%) 2.08 1.06 (37.3%)		21	13	93	72	42	2.50	1 100
I refrain from sharing my digital 7 devices, including phones, computers, and tablets, to maintain security and privacy.							2.58	1.108
devices, including phones, computers, and tablets, to maintain security and privacy. (2.9%) (7.1%) (22.4%) (30.3%) 90 (37.3%) 2.08		, ,		, ,		` ′		
computers, and tablets, to maintain security and privacy.								
maintain security and privacy.		(2.9%)	(7.1%)	(22.4%)	(30.3%)		2.08	1.068
						(37.3%)		
LCrand Maan								4.5
Source: Researcher's Field Survey, 2023	Grand Mean						3.50	1.261

Source: Researcher's Field Survey, 2023

Decision Rule: Always= 4.20-5.0; Sometimes= 3.40-4.19; Hardly =2.60-3.39; Never=1.80-2.59; Undecided= 1.0-1.79

The security behaviour of librarians in universities in South-East, Nigeria is always practiced, as presented on Table 1 shows a grand mean of 3.50 (SD = 1.261) on a 5point Likert-type scale. This suggests that security behaviour is a common practice among librarians in universities in South-East, Nigeria. Top on the list of security behaviours practiced was securing mobile devices ( $\overline{x} = 4.15$ , SD = 1.019), antivirus protection ( $\overline{x} = 3.88$ , SD = 1.178), scheduled backups ( $\overline{x} = 3.76$ , SD = 1.227) and firewall ( $\overline{x} = 2.85$ , SD = 1.403). The Table further revealed that strong password ( $\overline{x} = 2.5082$ ; SD = 1.303) and securing laptops were sometimes practiced whereas the respondents do not participate in annual security awareness training.

**Research Question Two**: What is the level of organizational justice in Universities libraries in South-East, Nigeria? **Table 2** 

Organisational justice in Universities library

Organisational Justice	Very high level	High level	Moderate level	Low level	Very low level	Mean	Std.
Interactional Justice							
My supervisor treats me with kindness, respect and dignity when decisions are made about my job to a	68 (28.2%)	80 (33.2%)	77 (32.0%)	14 (5.8%)	2 (0.8%)	3.82	0.938
My supervisor offers adequate justification for decisions made about my job to a	53 (22.0%)	86 (35.7%)	81 (33.6%)	17 (7.1%)	4 (1.7%)	3.69	0.947
My supervisor explains clearly any decision made about my job to a	58 (24.1%)	85 (35.3%)	77 (32.0%)	18 (7.5%)	3 (1.2%)	3.73	0.951
The manager offers explanations that make sense to me when making decisions about my job to a	57 (23.7%)	81 (33.6%)	79 (32.8%)	17 (7.1%)	7 (2.9%)	3.68	1.005
Distributive Justice				•	•	3.62	0.952
My work schedule is fair to a	73 (30.3%)	89 (36.9%)	67 (27.8%)	10 (4.1%)	(0.8%)	3.92	0.904
My job responsibilities are fair to a	60 (24.9%)	83 (34.4%)	86 (35.7%)	9 (3.7%)	3 (1.2%)	3.78	0.907
My level of pay is fair to a	38 (15.8%)	71 (29.5%)	94 (39.0%)	33 (13.7%)	5 (2.1%)	3.43	0.981
My overall rewards are fair to a	31 (12.9%)	71 (29.5%)	97 (40.2%)	30 (12.4%)	12 (5.0%)	3.33	1.015
<b>Procedural Justice</b>						3.49	1.043
My supervisor collects accurate and complete information to make job decisions to a	57 (23.7%)	81 (33.6%)	85 (35.3%)	16 (6.6%)	2 (0.8%)	3.73	0.926
The management makes job decisions in an unbiased manner to a	48 (19.9%)	71 (29.5%)	92 (38.2%)	22 (9.1%)	8 (3.3%)	3.54	1.016
All concerned employees are heard before job decisions are made by supervisor to a	49 (20.3%)	72 (29.9%)	80 (33.2%)	29 (12.0%)	11 (4.6%)	3.49	1.084
Employees are allowed to challenge or appeal job decisions made by the manager to a	32 (13.3%)	64 (26.6%)	84 (34.9%)	38 (15.8%)	23 (9.5%)	3.18	1.144
Grand Mean	I		ı	1		3.61	0.985

Source: Researcher's Field Survey, 2023

Decision Rule: 4.20-5.0 = Very high level, 3.40-4.19 = High level; 2.60-3.39 = Low level; 1.80-2.59 = Very low level; 1.0-1.79 = Undecided;

Table 2 shows the result on the level of organizational justice in universities libraries in South-East, Nigeria. The Table reveals that the level of organizational justice in universities libraries in South-East, Nigeria is high with a grand mean of 3.61 (SD = 0.985) on a 5point Likert-type scale. From the table it is evident that the average mean of the following indicators are high: interactional justice with highest mean of ( $\overline{x} = 3.73$ , SD = 0.960), distributive justice ( $\overline{x} = 3.62$ , SD = 0.952) and procedural justice with lowest mean of ( $\overline{x} = 3.49$ , SD = 1.043). This implies that there is a high level of interactional justice, distributive justice and procedural justice among librarians studied. One could infer from the findings that cordial relationship exists between the librarians and library management in University in South-East, Nigeria.

**Research Question Three**: What are the challenges facing librarians' security behaviours in Universities in South-East, Nigeria?

Table 3
Challenges affecting librarians' security behaviour

Challenges		Yes	No	
	N	%	N	%
Lack of laid down security policies and procedures	174	(72.2%)	67	(27.8%)
Carefree attitude among co-workers in handling sensitive data in the library	157	(65.1%)	84	(34.9%)
There is a general lack of awareness to safeguarding of information in my library	145	(60.2%)	96	(39.9%)
Lack of supervisory support in my library	124	(51.4%)	117	(48.6%)
Lack of Financial resources to update antivirus protection	110	(45.6%)	131	(54.3%)
My working environment is poor	100	(41.5%)	141	(58.5%)
I am not sufficiently motivated in my library	98	(40.7%)	143	(59.5%)
I am not adequately rewarded in my library	94	(39%)	147	(61%)
I experience unfair treatment from my supervisor	74	(30.7%)	167	(69.3%)
I lack the knowledge to retain strong password	69	(28.7%)	172	(71.4%)

Source: Researcher's Field Survey, 2023

Table 3 shows the result of challenges of librarians' digital security behaviours in university libraries in South-East, Nigeria, and found that lack of laid down security policies and procedures (72.2%) was the number one challenge barring librarians' digital security behaviour in university libraries. Other challenges include carefree attitude among co-workers in handling sensitive data in the library (65.1%), lack of awareness to safeguarding of information in the library (60.2%), Lack of supervisory support in my library (51.4%), and Lack of Financial resources to update antivirus protection. However, the findings also show that university libraries in South-East, Nigeria have qualified librarians who have the knowledge to retain strong password (71.4%), quite a number of personnel attest their supervisors treat them well (69.3%), and are rewarded adequately. Based on the finding, it can be inferred that librarians in University libraries in South-East, Nigeria, needs constant training as regard compliance to security on organization data protection.

Hypothesis One: Organisational justice has no significant influence on librarians' security behaviour in University libraries in South-East, Nigeria.

Table 4
Simple linear regression analysis of organizational justice and librarians' security behaviour

Predictors	В	Std. Error	Beta (β)	Т	P	R <sup>2</sup>	Adj. R <sup>2</sup>	F	ANOV A (Sig.)
(Constant)	2.537	0.159		15.963	.000				
Organisationa 1 Justice						0.126	0.122	34.486	0.000
	0.254	0.043	.355	5.872	.000				

Dependent Variable: Librarians' Security Behav Predictor: (Constant), Organisational Justice DF (F-Statistic) = 1, 240

Source: Field Survey Results, 2023

Table 4 shows that organizational justice has a positive and significant influence on librarians' security behaviour in university libraries in South-East, Nigeria ( $R^2 = 0.126$ ,  $\beta =$ 0.355, t(239) = 5.872, p < 0.05). The *t-value* of 5.872 affirms that the regression coefficient for organizational justice is statistically significant. The model shows that organizational justice explains 12.6% ( $R^2 = 0.126$ ) variation in librarians' security behaviours in university libraries in South-East, Nigeria. This implies that organizational justice is a significant predictor which predicts the librarians' security behaviours. Therefore, the null hypothesis (H<sub>0</sub>1) which states that organizational justice has no significant influence on librarians' security behaviour in university libraries in South-East, Nigeria was rejected. The hypothesis is therefore restated as: Organizational justice has a significant influence on librarians' security behaviour in academic libraries in university in South-East, Nigeria. This result suggests that an improved organizational justice system in libraries automatically leads to a higher security behaviour among librarians in university libraries in South-East, Nigeria.

#### **Discussion of Findings**

Research question one sought to find the level of librarians' security behaviour in university libraries in South-East, Nigeria. The study found that the level of librarians' security behaviour is high as the librarians agreed to practice security behaviours. This finding agrees with the study of Oguedoihu and Adinchezor (2022) who found that library staff in two academic libraries in South-East, Nigeria, practiced security measures available to them. The result from this present study is in tandem with the previous study conducted by Mabawonku and Madukoma (2022) on information security awareness and information security compliance in university libraries in South West, Nigeria who reported that security measures was available and practiced in the libraries. The findings of this present study are also in agreement with those of Nath and Deka (2020) who stated that information security measures were moderately available and practiced in

university libraries in Assam. The finding of this study is however in contrast with the finding of Jagadish and Sarasvathy (2016) who reported low-security practices in Karnataka University Libraries.

Research question two sought to identify organizational justice practiced in universities libraries in South-East, Nigeria. Among the organisational justice practiced in universities libraries in South-East, Nigeria are distributive justice, procedural justice and interactional justice which indicate that organizational justice is high in university libraries in South-East, Nigeria. Similarly, the finding of this study is consistent with the findings of Soyemi and Oloyede (2022) and Soyemi and Babalola (2022) who established a high level of organizational justice among academic librarians in South-West, Nigeria. Similarly, the finding of this study supports the finding of Adewoyin (2020) who revealed a high level of organizational justice among library personnel in public universities in South-West, Nigeria. This finding also agrees with the finding of Chukwu (2019) who asserted that organizational justice was high among employees in Nigeria. In the same vein, this study also corroborates the study of Mayowa (2018) who established a high level of organizational justice in university libraries in South-West, Nigeria. Additionally, this present study supports the findings of Moon (2017) and Baba and Ghazali (2017) who revealed a high level of organizational justice. Furthermore, this finding is in agreement with the findings of Demikiran et al. (2016), Sokhanvar et al. (2016) and Abdul Rauf (2014) who reported a high level of organizational justice in Turkey, Tetran, Iran and Sri Lanka respectively. In contrast, the finding of this study is in disparity with the finding of Nikookar et al. (2016) who submitted a low level of organizational justice in public libraries in Iran.

**Hypothesis one** The finding from the test of hypothesis one indicated that organizational justice has a positive and significant influence on librarians' security behaviour in university libraries in universities in South-East, Nigeria. This result supports the position of Soyemi and Babalola (2022) who established that organizational justice

significantly and positively influences librarians' turnover intentions in South-West, Nigeria. This finding agrees with the finding of Young et al. (2020) who found that organizational justice positively and significantly influenced behavioral outcomes in Nigeria. This finding also is in agreement with the submission of Adewoyin (2020) whose findings showed that organizational justice had significant influence on security behaviours of librarians. The finding of this present study is also coherent with the documentation of Ajala (2016) who documented that there exists a significant relationship between organizational justice and employees' organizational behaviours in Ondo and Oyo States. Similarly, the result of this study corroborates the finding of Shan, (2015) who reported that organizational justice has a significant influence on job performance of librarians in Pakistan. In contrast, this study is in disparity with the study of Nikookar et al. (2016) who discovered that organizational justice had no influence on organizational behaviour in public libraries in Iran.

#### Conclusion

The research was conducted on organizational justice and librarians' digital security behaviours in university libraries in South-East, Nigeria. It was carried out to ascertain the influence of organisational justice and the challenges facing digital security behaviour. The study has shown that organizational justice plays an important role in shaping librarians' digital security behaviours in university libraries in South-East, Nigeria.

#### Recommendations

It is recommended that universities should implement policies to ensure fairness and equity among their staff members. This will help create a positive working environment where employees feel valued and respected. Additionally, training programs on cybersecurity best practices should be provided to all library personnel to enhance their knowledge of safe online behaviour. Finally, regular audits should be conducted to assess the *IJELICT Vol. 3 No. 1* 

effectiveness of these measures and make necessary adjustments as needed.

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