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# Parental Socio-Economic Status and E-crime among the Undergraduate Students of Universities in South-West of Nigeria

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### **ABSTRACT**

Information and communication technology is inherent and fundamental part of modern life. Sadly, ICT is now an essential tool for perpetrating a crime known as e-crime. E-crime has become a global malady which has affected virtually all countries of the world. Although, the quests to understand the factors affecting e-crime and its effects have dominated public debate in recent years, the parental socio-economic factors responsible for e-crime are seldom highlighted in Nigeria. Thus, the study examines the effects of social and economic conditions of parents on e-crime. Cross sectional survey was used to generate data for the study, while multi-stage sampling was used to select eligible respondents. Three hypotheses were formulated for the study, and they were tested using Chi-square technique. The paper found that parental education, parental income and parental occupation have a significant relationship with e-crime. Consequently, it is imperative for government at all levels to come up with a sustainable poverty eradication programme that will effectively tackle poverty in the country and create sustainable jobs for the unemployed men and women in the country so that they would be able to cater for their children's needs.

### Keyword:

Cybercrime, ICT, Parents, Education, Income, Occupation

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#### Introduction

Information and communication technology is inherent part of modern life and has become an indispensable tool. It opens up access to the vast and enormous information resources available on the internet, hence, we now have better opportunity to get ourselves informed regarding various endeavours. The growth of ICT has changed the way social and economic developments occur in most human societies. New ICT related tools are changing the way industries do business by making them more productive and effective, enhance learning and skills and eases the accessibility of services (Bliss & Harfield, 1998).

Paradoxically, information and communication technology (ICT) has pros and cons. Developments in technology have provided great opportunities and benefits; while on the other hand, it is dysfunctional as it has produced many maladies that impede the order of the society and also increase the vulnerability to crime (Okeshola & Adeta, 2013).

The information and telecommunication technology changes the modus operandi of most conventional crimes. The growth of the information society, is accompanied by new and serious threat known as e-crime. E-crime is any form of illegal behaviour via a mobile device or other computer related devices. Over the past two decades, e-criminals have kept on using the computer to perpetrate illicit activities and this prods people to have a mixed feeling of fear and admiration. Many information and telecommunication networks- such as the internet and the public telephone networks- are globally connected. Hence, crimes now have global implications and hence crimes can now be perpetrated anywhere and anytime (Jiggins, 2010).

According to the report by Centre for Strategic and International Studies (CSIS) cited in Huang (2014), e-crime costs the global economy about \$445 billion yearly in 2013. E-crime activities including scam, and hacking people's personal information are assumed to have affected over 800 million people worldwide. Close to 40 million people in USA which represents about 15% of the population, have had their personal information hacked by e-criminals, while high-profile breaches affected 16 million people in Germany and more than 20 million people in China (Huang, 2014).

The adverse effects of e-crime are not restricted to the developed countries alone. It poses serious threat to our country as online piracy and other cybercrimes render Nigeria cyber space too risky for buying and selling, and are busy suppressing, if not crushing creativity and online entrepreneurship (Ayatokun, 2006). Nigeria, according to Akuta, Ong'oa and Jones (2011), has gained global attention for its involvement in e-crime. The country is ranked first in Africa and third in the world in the rate of e-crime perpetration (McAfee Inc., 2009).

E-crime and poverty can be said to have an intimate relationship. Positivist Criminology states that criminals' motivations are beyond the criminals' control (Vold, Bernard, & Snipes, 2002). Arguably, parental socioeconomic factors can motivate an individual to commit crime or create the circumstances that can serve as a breeding ground for crime. Parents who are poor may not be able to cater for their wards' needs adequately and this may prompt their wards to engage in e-crime and other illicit activities (Crouch, 1996). Hirschauer and Musshoff

(2007:248) corroborate this assertion by opining that "offences are most imminent if the technological viability coincides with a high level of economic temptation to break the rules".

However, perpetrators in e-crime and other illicit activities are not only from low socio-economic families (Etim & Egodi, 2013; Remakers, 2009). Various studies (for example, Adeniran, 2008; Longe & Chiemeke, 2008; Ojedokun & Eraye, 2012; Hassan, Lass & Makinde, 2012; Okeshola & Adeta, 2013) have explored the nature and causes of e-crime. However, the effect of parental socio-economic conditions on e-crime has not been well documented in Nigeria. This lacuna is what this paper filled.

#### 2. Literature Review

Factors such as unemployment, financial stress, social isolation, and single parenthood may increase the likelihood of e-crime. Studies by Connelly and Straus (1992) and Black, Heyman and Smith-Slep (2001) have found that neglectful families were likely to have greater numbers of people living in the same household than the non-neglectful families. The size of the family may have effect on the prevalence of crime in the society with e-crime inclusive, as parents may not have the resources and time needed to take care of their wards.

Adeniran (2008) investigated the reasons behind the development of yahoo boys' subculture in Nigeria. He used survey research and participant observation methods to carry out the research. He found out that that the unfavourable economic condition prompts youths to engage in e-crime code named 'yahooboyism' for economic survival. Study by Okeshola and Adeta (2013) on the causes and consequences of e-crime in higher institutions in Zaria, Kaduna-State shows that poverty and unemployment are the fundamental causes of e-crime.

Jacob and Ludwig (2010) investigated the effects of family income on children's behaviour. The objective of the study was to determine the "effect of a housing voucher program (that increases cash income from reductions in out-of-pocket spending on housing) on crime in Chicago". They found that a transfer program providing 50 percent average rise in family income (for families earning around \$14,000 in annual income) reduces property crime, violent e-crime, and total arrests by 20 percent for males.

Report of a study by Freeman (1996) on "Why do so many young American men commit crimes and what might we do about it?" points out that more than two-thirds of all jailed men for fraud in USA in 1993 had parents who did not graduate from high school. Similarly, crime statistics of England shows that crime rates are higher for areas with lower educational attainment, which are also characterized by lower per capital income. In addition to this, these areas have a higher percentage of families belonging to the lowest socio-economic status (Home Office, 2003).

A job with a higher occupational prestige will result in a higher income, making criminal behaviour less necessary (Merton, 1938). However, a higher occupation can also stimulate criminal behaviour. Prestigious occupation often times comes with opportunities and open access that are mostly not checked and this can result in more criminal activities (Hagan, Gillis &Simpson, 1985).

Remakers (2009) used secondary data from a comprehensive dataset to study the mechanisms of intergenerational parallelism in delinquency. He found out that there is no significant association between parental occupation and the chance to become convicted for cybercrime. When calculating the odds ratios on the imputed data, he found similar or non-significant values (0.919; 0.934). This means that, in contrast to expectations, parental occupation does not seem to influence the chance to become cybercrime perpetrator (Remakers, 2009).

### 3 Theoretical Framework

Robert K. Merton's anomie theory was used to explain the parental social and economic factors affecting e-crime. This theory rests mainly on the work of Emile Durkheim, one of the founding founders of Sociology. Durkheim (1897-1951) describes anomie as lack of social regulation or normlessness, which is the fundamental cause of higher rates of suicide. Merton (1938) applied this Durkheimian paradigm to the condition of contemporary industrial societies, especially in the United States. An integrated society according to Merton (1938) maintains a balance between the culture (approved goals) and social structure (approved social means). Anomie is the form that prevails when there is dissociation or imbalance between the valued cultural goals and legitimate societal means of achieving those cultural goals.

Merton, as cited in Akers (1999) argues that the American society demonstrates this means-ends disjuncture in two ways. Firstly, the American society places strong emphasis on success goals without an equally strong emphasis on the culturally approved means. Everyone is socialized to have desire for success and high achievement. Competitiveness and success are taught in the schools, glorified by public authorities, and fortified by the values that are passed from generation to generation. Success is judged by monetary and material worth. The success in goal is supposed to be achieved through legitimate means approved by the society and equal emphasis is placed on the socially approved means of achieving the goal. However, American society places much emphasis on the success value at the expense of socially approved means.

Secondly, the discrepancy in the means and ends in the American society manifests in the distribution of the socially approved means of achieving the goal. In the American society, the socially approved means are not equally distributed among members of the society. this creates disadvantaged group characterized by poverty and low per capital income which in turns lead to anomie as people resort to illegitimate means to achieve the expected goal (Akers, 2009).

Yet, Merton's anomie theory has been criticized on many grounds. One of the major brickbats is that the theory fails to explain why people react to strain differently. In other words, why do people in almost identical social situations differ in their reaction to the feelings of helplessness? Another salient criticism is that the theory fails to account for the crime perpetrated by the upper-class (Vito, Maahs, & Holmes, 2011).

Despite the brickbats leveled against the strain theory, it is still a very useful tool for explaining the scourge of e-crime. The Nigerian society extols material success but the opportunities to attain success are not available to everyone. Hence, there is the tendency for those who do not have

access to the legitimate means of achieving the success goal to seek illicit means such as e-crime to succeed.

Anomie theory posits that in a class-oriented society like Nigeria, opportunities to get to the top are not equally distributed (Attoh, 2012). The structure of the society may limits the possibility of poor individuals to achieve success through institutionalized and socially-acceptable means. If a person's success is measured by wealth, status, and material possessions, the poor may see e-crime as a means to obtain those possessions.

### 4. Methodology

Cross-sectional survey was used to generate data for this study. The study was conducted in universities in South-West of Nigeria. South-West of Nigeria is one of the six geo-political zones established during the reign of the then military head of state Ibrahim BadamasiBabangida. The zone is made up of 6 states- Lagos, Ogun, Oyo, Osun, Ekiti and Ondo. The region has a total of about 35 federal state and private universities (National Universities Commission, 2016). The study population was male and female undergraduate students of universities in South-West of Nigeria. A multi stage random sampling was used to select respondents for the survey. To select eligible respondents, four stages of sampling were adopted. The first stage involved dividing the study location into states and selecting one university from each state. Simple random sampling was used to select a university from each state. Thus, a total of 6 universities were selected. The second stage involved dividing the selected universities into faculties. All the faculties across all the selected universities were sampled at this stage. The third stage involved random selection of one department from each faculty of the chosen university, while the last stage involves using simple random sampling to select eligible respondents from the selected departments after obtaining the lists of all registered students at all levels in the selected departments.

Ouestionnaire schedule was used to elicit data from the respondents. A total of three hundred (300) questionnaires were designed and distributed among the undergraduate students. In all, 287 questionnaires were returned and thus successfully retrieved from the students. After a thorough screening of each and every questionnaire returned, a total of 275 questionnaires were found useful for the analysis (139 males and 136 females). Thus, the analysis of the survey data in this study is based on the 275 questionnaires. Statistical Packages for Social Statistics (SPSS/PC) Version 21.0 was used to analyze the data. This was done after the edited and coded. The returned questionnaires were statistical methods used in the analysis included the percentages, the mode, cross-tabulation, chi-square and contingency co-efficient.

#### 5. Results

# 5.1 Respondents' Demographic and Socio-Economic Characteristics

Table 1 displays the demographic and socio-economic information of the respondents. The percentage distribution of the respondents with respect to sex shows that 50.5% (139) were male, while 49.5% (136) were female. Data on age of the respondents show that 34% (93) were in the age group 20-24years; 31% (85) were in the age group 15-19years; 29% (80) were in the age group 25-29 years; 4% (11) were in the age group 30-34 years, while 2% (6) were 35 years and above. Majority of the respondents falls within

in the age bracket 15-29 years, which constituted 94% of the total sample. The reason for this is that the study was out to interview undergraduate students only. Majority of the respondents were single 94% (259), while 6% (16) were married.

Table 1 Percentage Distribution of Respondents by their Demographic and Socio-Economic Characteristics

Socio-Economic	Frequency	Percentage
Characteristics		
Sex		
Male	139	50.5
Female	136	49.5
Total	275	100
Age		
15-19	85	30.9
20-24	93	33.8
25-29	80	29.1
30-34	11	4
35 and Above	6	2.2
Total	275	100
Marital Status		
Single	259	94
Married	16	6
Total	275	100

Source: Fieldwork (2016)

## 5.2 Parental Socio-Economic and Demographic Characteristics

Table 2 shows the parental socio-economic and demographic characteristics of the respondents. The table shows that 58% (159) of the respondents' fathers had higher education; 20% (56) had secondary education; 8% (22) had no formal education; 6% (17) had Quranic education; 4% (11) had vocational education, while 4% (10) had primary education. This indicates that majority of the respondents' fathers 88% (242) had acquired formal education at one level or the other, thus they can be termed as literate. Many of the 12% of sampled population of the respondents' fathers that claimed not to have attended any formal education are may be men in older age brackets interval, who did not have the opportunity to go to school at early age.

Data on the educational qualification of the respondents'

mothers shows that 40.4% (111) of the respondents' mothers had higher education; 25.5% (70) had secondary education; 13.5% (37) had no formal education; 11.6% (32) had primary education while 9% (25) had vocational education. Majority of the respondents' parents were married (67.6%) 186; 9.8% (27) were separated; 8.4% (23) were divorced; 8.4% (23) were widowed, while 5.8% (16) were single. regarding the form of marriage by the respondents' parents, the table shows that 59.2% (155) of respondents' parents married into monogamous homes, while 40.2% (104) were married into polygamous homes. Data on the number of children shows that 60% (165) had 1-4 children; 32% (87) had 5-8 children, while 8% (23) had more than 10 children. Question on the occupation of the respondents' fathers shows that 27.3% (75) worked in the private sector; 12% (33) were traders; 12% (33) engaged in other occupation; 11.6% (32) were civil servants; 11.3% (31) were retirees; 10.9% (30) were artisans; 6.9% (19) were professionals; 5.5% (15) were farmers while 2.5% (7) were

unemployed. This shows that majority of the respondents' fathers, 86.2%, engaged in one occupation or the other. Data on the respondents mothers' occupation revealed that 40.4% (111) were traders; 20.4% (56) were civil servants; 14.2% (39) were private sector employees; 8.7% (24) engaged in other work; 6.9% (19) were professionals; 5.5% (15) were artisans; 2.9% (8) were unemployed, while 1.1% (3) were retirees. The above data unveil that almost all the respondents' mothers 96% were engaged in one occupation or the other.

The table also shows that 21.1% (58) of the respondents' parents earned between 30,001 and 45,000 naira; 21% (58) earned between 60,001 and 75,000 naira; 18.2% (50) earned between 450,001 and 60,000 naira; 16.7% (46) earned above 75,000 naira; 9.8% (27) earned between 15,001 and 30,000 naira; 9.5% (26) earned below 15,000 naira, while 3.6% (10) earned no income. The table shows that 38.9% (107) of the respondents' parents were both Muslims; 35.6% (98) were both Christians; 15.6% (43) were Christians and Muslims; 5.8% (16) of the parents were both traditional worshippers and Muslims, while 1.1% (3) of the respondents' parents were Christians and traditional worshippers.

Table 2Percentage Distribution of Respondents by their Parents Socio- Demographics Characteristics

Parents Socio- Demographics Characteristics							
Parental Socio-	Frequency	Percentage					
Economic and							
Demographic							
Characteristics							
Father's Educational							
Qualification							
No formal Education	22	8					
Vocational	11	4					
Quranic	17	6.2					
Primary Education	10	3.6					
Secondary	56	20.4					
Higher	159	57.8					
Total	275	100					
Mother's Educational							
Qualification							
No formal Education	37	13.5					
Vocational	25	9.1					
Primary Education	32	11.6					
Secondary	70	25.5					
Higher	111	40.4					
Total	275	100					
Respondents' Parents							
Marital Status							
Single	16	5.8					
Married	186	67.6					
Separated	27	9.8					
Divorced	23	8.4					
Widowed	23	8.3					
Total	275	100					
Form of Marriage							
Monogamous	155	59.2					
Polygamous	104	40.2					
Total	259	100					

	1	
Parents' no of		
children	165	60
1-4	87	31.6
5-8	23	8.4
8 and above	275	100
Total	273	100
Father's Occupation		
Trading	33	12
Artisan	30	10.9
Farming	15	5.5
Private Sector	75	27.3
employee	32	11.6
Civil/Public Servant	19	6.9
Professional	7	2.5
	31	11.3
Unemployed		
Retiree	33	12
Other	275	100
Total		
Mother's Occupation		
Trading	111	40.4
Artisan	15	5.5
Private Sector	39	14.2
employee	56	20.4
Civil/Public Servant	19	6.9
Professional	8	2.9
Unemployed	3	1.1
Retiree	24	8.7
Other	275	100
Total		
Monthly Family		
Income	10	3.6
No Income	26	9.5
Below 15,000	27	9.8
15,001-30,000	58	21.1
30,001-45,000	50	18.2
45,001-60,000	58	21.1
60,001-75,000	46	16.7
Above 75,000	275	100
Total		
Parents' Religion		
Christianity only	98	35.6
Christianity and Islam	43	15.6
Christianity and	3	1.1
Traditional		***
	107	29.0
Islam only	107	38.9
Islam and Traditional	8	2.9
Traditional only	16	5.8
Total	275	100

Source: Fieldwork (2016)

### 5.3 Prevalence of E-Crime

Table 3 displays the prevalence of e-crime among the undergraduate students in the study location. E-crime here is contextualized as engaging in any of the following acts with the aid of the computer: piracy, hacking, fraud, stalking and bullying, virus dissemination, data and computer destruction. The table shows that 78.9% (217) of the respondents had engaged in e-crime before; they had engaged in any of the above acts before. - However, 54 respondents constituting 19.6% of the total sample never engaged in e-crime before, while 1.5% (4) declined the question. The above data on the prevalence of e-crime can be simply interpreted in the following way: out of every 100 undergraduate students in the study location, about 79 out of

them would have committed e-crime in one form or the other. This percentage is very high which calls for concern, given the documented adverse effects of e-crime all over the world.

Probing question on the form of e-crime the respondents commit shows that 58.9% (162) had downloaded materials or applications which are not for free without paying for it on the computer before; 38.5% (106) never did such thing before, while 2.5% (7) declined the question. 65.1% (179) had watched films that are not for free without paying for it on the computer before; 32.4% (89) never did such thing before, while 2.5% (7) declined the question. This shows that more than half of the students had engaged in piracy by watching films that are not for free without paying for it on the computer before. This shows that e-crime particularly piracy which is in form of downloading and watching films that are not for free without paying for it, is very prevalence in the study area.

Question on hacking shows that 78.2% (215) have never engaged in hacking before; 11.3% (31) had engaged in hacking before, while 10.5% (29) declined the question. Hence, it is glaring that hacking is still common in the study location; though, it is not as common as piracy. 85.1% (234)had never intentionally damaged the computer system or data before; 5.8% (16) had done such thing before, while 9.1% (25) declined the question. Table 3 also shows that 90.2% (248) of the respondents never distributed malicious code such as worms, viruses, malware and spyware; 7.3% (20) had done that before, while 2.5% (7) declined the question. 75.6% (208) had never intimidated and blackmailed people on the computer before; 17.8% (49) had done this before, while 6.5% (18) declined the question perhaps they did not know whether they have done this before. Data on fraud show that 73.8% (208) had never engaged in fraud on the computer before: 16.7% (46) had defrauded people with the aid of the computer before, while 9.5% (26) declined the question.

Table 3Percentage Distribution of Respondents by the Prevalence of E-crime

Prevalence of E-crime		
Prevalence of E-crime	Frequency	Percentage
Have you ever done any of the		
following acts with the aid of the		
computer: piracy, hacking, fraud,		
stalking and bullying, virus		
dissemination, data and computer		
destruction?		
Yes	217	78.9
No	54	19.6
Don't know/ declined	4	1.5
Total	275	100
Have you ever downloaded		
materials or applications which are		
not for free without paying for it on		
the internet before?		
Yes	162	58.9
No	106	38.5
Don't know/ declined	7	2.5
Total	275	100
Have you ever watched films that		
are not free without paying for them		
on the computer?		
Yes		
No	179	65.1
Don't know/ declined	89	32.4
Total	7	2.5
	275	100

Have you ever hacked someone

ever damaged the computer system or

Have you ever distributed malicious

code (worms, viruses, malware and

else's account?

data before?

Don't know /declined

you

Don't know/ declined

spyware) before?

Don't know/ declined

No

Total Have

Yes No

Total

Yes

No

Total

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100

5.8

85.1

9.1

100

7.3

90.2

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100

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Have you ever intimidated and blackmailed people on the computer		
before?		
Yes	49	17.8
No	208	75.6
Don't know/ declined	18	6.5
Total	275	100

ce: Fieldwork (2016)

### Hypothesis 1

e is a significant relationship between parental ation and e-crime

There is no significant relationship between parental ation and e-crime

There is a significant relationship between parental ation and e-crime

Table 4 Father's Education and E-Crime

Father's Education		]	E-Crime				
	Yes		1	No		Undecided	
	Number	Percentage	Number	Percentage	Number	Percentage	
No formal education	16	72.7	6	27.3	0	0	
Vocational educated	7	63.6	0	0	4	36.4	
Quranic	10	58.8	7	41.2	0	0	
Primary	6	60	4	40	0	0	
Secondary	40	71.4	16	28.6	0	0	
Higher	138	86.8	21	13.2	0	0	
Total	217	78.9	54	19.6	4	1.5	
$X^2 = 113.969^a$							
d.f. = 10							
C = 0.541							

Source: Fieldwork (2016)

Data in table 4 shows the distribution of respondents by their fathers' education and perpetration of e-crime. The data reveal that students whose fathers had higher education were more likely to engage in e-crime compared with students whose fathers had secondary education and below. For example, 86.8% of students whose fathers had higher education engaged in e-crime. This proportion was more than those whose fathers had secondary education and below. This relationship was statistically significant at P < 0.05. The chi-square value of the relationship is  $(X^2)$  = (113.969<sup>a</sup>), degree of freedom = 10, P= 0.000. Therefore,

the null hypothesis was rejected while the alternative hypothesis that the level of education of parents is a significant determinant of e-crime was accepted.

### 5.5 Hypothesis 2

There is a significant relationship between parental income and e-crime

H<sub>0</sub>: There is no significant relationship between parental income and e-crime

H<sub>1</sub>: There is a significant relationship between parental income and e-crime

Table 5 Parental income and E-Crime

Monthly family income	E-Crime							
	•	Yes	Und	ecided				
	Number	Percentage	Number	Number Percentage		Percentage		
No income	10	100	0	0	0	0		
Below 15,000	23	88.5	3	11.5	0	0		

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15,001-30,000	23	85.2	4	14.8	0	0
30,001-45,000	47	81	11	19	0	0
45,001-60,000	40	80	10	20	0	0
60,001-75,000	46	79.3	8	13.8	4	6.8
Above 75,000	28	60.9	18	39.1	0	0
$Total X^2 = 30.983^a d.f. = 12 P = 0.002 C = 0.318$	217	78.9	54	19.6	4	1.5

Source: Fieldwork (2016)

Data on table 5 shows the distr ibution of respondents by their monthly family income and e-crime. The data reveal that students whose families had no income were more likely to engage in e-crime compared with students whose families had monthly income. For example, 100% of students whose parents had no income had one way or the other engaged in e-crime. This proportion was more than those whose parents had monthly income. This relationship was statistically significant at P < 0.05. The chi-square value of the relationship is  $(X^2) = (30.983^a)$ , degree of freedom = 12, P = 0.002. Therefore, the null hypothesis was

rejected while the alternative hypothesis that there is a significant relationship between the size of income of parents and e-crime was accepted.

### 5.6 Hypothesis 3

There is a significant relationship between parental occupation and e-crime

H<sub>0</sub>: There is no significant relationship between parental occupation and e-crime

 $\mathbf{H}_1$ : There is a significant relationship between parental occupation and e-crime

Table 6 Father's Occupation and E-Crime

Table o Father's Occupation and E-Crime							
Father's Occupation		E-C					
	7	Yes	No		Undecided		
	Number	Percentage	Number	Percentage	Number	Percentage	
Trading	30	90.9	3	9.1	0	0	
Artisan	26	86.7	4	13.3	0	0	
Farming	15	100	0	0	0	0	
Private sector	51	68	24	32	0	0	
employee							
Civil/ Public Servant	20	62.5	12	37.5	0	0	
Professional	11	57.9	4	21.1	4	21.1	
Unemployed	7	100	0	0	0	0	
Retiree	31	100	0	0	0	0	
Other	26	78.8	7	21.2	0	0	
Total	217	78.9	54	19.6	4	1.5	
$X^2 = 84.983^a$							
<b>d.f.</b> =16							
$\mathbf{P} = 0.000$							
C= 0.486							

Source: Fieldwork (2016)

Table 6 above shows that students whose parents were farmers, unemployed and retirees were more likely to perpetrate e-crime compared with students whose parents engaged in other occupations. This relationship is statistically significant at P < 0.05. The chi-square value of the relationship is  $(X^2) = (84.983^a)$ , degree of freedom = 16, P = 0.000. Therefore, the null hypothesis was rejected while the alternative hypothesis that there is a significant relationship between the nature of occupation of parents and e-crime was accepted.

# 6. Discussion of Findings, Conclusion and Recommendation

The study has done justice to the parental socio-economic factors responsible for e-crime among the undergraduate students of universities in South-West of Nigeria. The assumption which states that there is a significant relationship between parental education and e-crime was accepted at P < 0.05. The contingency coefficient of the two variables is 0.541. This means that about 54 percent of e-crime can be explained by parental education in the study location. This is not surprising as it is believed that students whose parents are literate are more likely to be literate and be exposed to computer at a very young age without adequate monitoring and this may spur them to engage in e-crime. This finding corroborates the work of Aranisiola and

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Asindemande (2011) who found that parental education is a predictor of e-crime.

We discovered that parental income is one of the factors causing e-crime. This relationship was statistically significant at P < 0.05. The contingency coefficient of the two variables is 0.318. This means that about 31.8 percent of e-crime can be explained by size of income of parents in the study location. This corroborates the previous findings in the literature which discovered that poverty is a fundamental factor causing e-crime (Adeniran, 2008; Okeshola & Adeta, 2013).

We examined the relationship between parental occupation and e-crime. The relationship between parental occupation and e-crime was found to be statistically significant at P < 0.05. The contingency coefficient of the two variables is 0.486. This means that about 49 percent of the occurrence of e-crime is a function of nature of occupation of the respondents' parents.

By and large, the study discovered that parental education, parental income and parental occupation have a significant relationship with e-crime. Hence, they are the factors contributing to the prevalence of e-crime among the undergraduate students of universities in South-West of Nigeria. Based on these findings, the following recommendations are essential:

Government should come up with a sustainable poverty eradication programme that will effectively tackle poverty in the country. Also, government and the private organisations should focus on creating sustainable jobs for the unemployed men and women in the country so that they will be gainfully employed as well as become responsible parents who will cater for their children's needs.

### References

- Adeniran, A. I. (2008). The internet and emergence of yahoo-boys
- sub-culture in Nigeria. *International Journal of Cyber Criminology*, 2(2), 368–381.
- Akers, L.R. (1999). Criminological theories: Introduction and evaluation (2nd ed.). New York: Routledge.
- Akuta, E., Ong'oa, I., & Jones, C. (2011). Combating cybercrime in Sub-Saharan Africa: A discourse on law, policy and practice. *J. Peace, Gender and Devel. Studies* 1(4): 129-137.
- Aransiola, O. J. & Asindemade, O.S. (2011). Understanding cybercrime perpetrators and the strategies they employ in Nigeria. Cyber Psychology, Behaviour, and Social Networking 14(12).
- Attoh, F. (2012). Rethinking crimes and violent behaviour in Nigeria: An appraisal of the challenges and solutions. *British Journal of Arts and Social Sciences*, 8(2).
- Ayantokun, O. (2006). Fighting cybercrime in Nigeria. *Tribune*. Retrieved from www.tribune.comng/08062016/Infosys2.html
- Black, D. A., Heyman, R. E. & Smith Slep, A. M. (2001). Risk factors for child physical abuse. *Aggression and Violent Behaviour*, 6, 121-188.
- Bliss, A., &Harfield, C. (1998). The threat of computer crime: Identifying the problem and formulating a

- response at force level. *The Police Journal*, 71 (1), 25-34
- Blume, L. E. & Easley, D. (2008). Rationality. In Durlauf, N.S., & Blume, L.E. (Eds.), the New Palgrave Dictionary of Economics (2<sup>nd</sup>ed.). Palgrave Macmillan.
- Connelly, C. D., & Straus, M. A. (1992). Mother's age and risk for physical abuse. *Child Abuse and Neglect* 16(5), 709-718.
- Crouch, B. M. (1996). Looking back to see the future of corrections. *The Prison Journal*, 76(4).
- Etim, E.T. & Egodi, A.U. (2013). Family socio-economic status and delinquency among senior secondary school students in Calabar South, Cross River State, Nigeria. *American International Journal of Contemporary Research* 3(4), 83-88.
- Friedman, M. (1953). *Essays in positive Economics*. Chicago: University of Chicago Press.
- Freeman, R. (1996). Why do so many young American men commit crimes and what might we do about it? *Journal of Economic Perspectives 10:25–42*.
- Hagan, J., Gillis, A.R. & Simpson, J. (1985). The class structure of gender and delinquency: Toward a power-control theory. *American Journal of Sociology*, 90(6), 1151-1178.
- Hassan, A.B., Lass, F. D., &Makinde, J. (2012). Cybercrime in Nigeria: Causes, effects and the way out. *ARPN Journal of Science and Technology* 2(7) 626-631.
- Hirschauer, N., &Musshoff, O. (2007). A game-theoretic approach to behavioral food risks: The case of grain producers. *Food Policy*, *32*(2), 246–265.
- Home Office (2003). *Crime statistics of England and Wales*. London: TSO.
- Huang, N. (2014, June 17). Cybercrime causes \$445 billion loss annually in global economy. Retrieved from http://www.businessvibes.com/blog/cyber-crime-causes-445-billion-loss-annually-global-economy
- Jacob, B., & Ludwig, J. (2010). The effects of family resources on children's outcomes. *Working Paper*, University of Michigan.
- Jiggins, S. (2000). *E-crime: A global challenge for law enforcement*. Retrieved from http://www.Afp.gov.au/en/media-centre/publications/platypus/previous-editions/20000/December-2000/ecrime.aspx
- Lee, E., Kevin, M. B., & John, W. (2009). *Handbook of crime Correlates*. Massachusetts: Academic Press.
- Longe, O. B., & Chiemeke, S. C. (2008). Cybercrime and criminality in Nigeria: What roles are internet access points playing? *European Journal of Social Sciences*, 6(4), 132-139.
- McAfee Inc (2009). McAfee reveals the riskiest web domains to surf and search, *McAfee's Third Annual Report*. Retrieved fromhttp://www.mcafee.com/us/about/news/2010/q4/2 0101026 02.aspx
- Merton, R. K. (1938). Social structure and anomie.

  \*American Sociological Review 3 (5): 672-682
- National Universities Commission (2016). List of approved

- Universities in Nigeria. Retrieved from http://nuc.edu.ng/nigerian-univerisities/federal-universities/
- Ojedokun, U. A., & Eraye M. C. (2012). Socio-economic lifestyles of the yahoo-boys: A study of perceptions of university students in Nigeria. *International Journal of Cyber Criminology*, 6(2), 1001–1013.
- Okeshola, F.B. &Adeta, A.K. (2013). The nature, causes and consequences of cybercrime in tertiary institutions in Zaria-Kaduna State, Nigeria. *American International Journal of Contemporary Research Vol.* 3(9).
- Remakers, A. (2009). Escaping the family tradition: A study into the mechanisms of intergeneration parallelism in crime. (Unpublished Master thesis), VU University, Amsterdam, Netherland.
- Vito, F. G, Maahs, R. J., & Holmes, M. R. (2011). *Criminology: Theory, research, and policy* (3rd ed.). Massachusetts: Jones & Bartlett Publishers.
- Vold, G. B., Bernard, T. J., & Snipes, J. B. (2002). *Theoretical Criminology* (5th ed.). New York Oxford University Press
- Welch, M. R., Tittle, C. R., & Grasmick, H. G. (2006). Christian religiosity, self-control, and social conformity. *Social Forces*, 84, 411–430.