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Gender Differential Effect of Business Education Students' Human Capital on Sustainable Economic Development

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This research investigates the relationship between business education students' human capital and core values of sustainable economic development from a gender perspective. This research specifically investigates four interrelated questions. First, do male and female business education students experience different types of general human capital? Second, do male and female business education students possess different types of specific human capital? Third, do differences in both male and female business education students' general human capital have a differential effect on sustainable development of Nigerian economy? And finally, do differences in both male and female business education students' specific human capital have a differential effect on sustainable development of Nigerian economy? To answer these questions, bivariate correlation was employed. The hypotheses were tested using analysis of variance and multiple regressions. Using a survey data of all the final-year undergraduate students (N = 375) of business education in Federal Universities in South-South geopolitical region of Nigeria, the results showed a positive correlation between general and specific human capital and core values sustainable development. Male and female business education students experience almost the same type of general human capital. The results also showed that male students possess higher level of specific human capital than female students. The results further showed that changes or variations in core values of sustainable development caused by both general and specific human capital are higher in male than the female students. Logical conclusions and implications for future practices are discussed.

Keywords: business education students, gender differential effect, human capital, sustainable economic development

Introduction

In September 2015, like every other Member States of the United Nations, Nigeria adopted the U.N. 2030 Agenda for Sustainable Development, which includes 17 goals, 169 targets, and 230 indicators. Specifically, Goals 4 and 5 of the Agenda stressed the need to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all and achieve gender equality and empower all women and girls. The Federal Republic of Nigeria (FRN, 2017) in its Sustainable Development Goals (SDGs) stated that Goal 4 of the agenda shall be achieved via the "...acquisition of foundational and higher-order skills; greater and more equitable access to technical and vocational education and training and higher education; training throughout life; and the knowledge, skills and values needed to function well and contribute to society" (p. 4). It also pointed out that Goal 5 of the agenda

aims to empower women and girls to reach their full potential, which requires eliminating all forms of discrimination and violence against them, including harmful practices, violence by intimate partners, sexual violence and harmful practices, such as child marriage and female genital mutilation. (p. 4)

The FRN further stipulated that Goal 5 of the agenda seeks to ensure that women have better access to paid employment, sexual, and reproductive health and reproductive rights; receive due recognition for their unpaid work; have real decision-making power in public and private spheres; have full access to productive resources; and enjoy equal participation with men in political, economic and public life.

The eighth World Environmental Education Congress (2015) in its summary report also offered a wide spectrum of the

possibilities for education and learning for a transition away from, what some speakers' referred to as, global systemic dysfunction and towards a healthier, more equitable and balance way of living. Not by propaganda, force or prescription but rather by discovering, (re)connecting, questioning, disrupting, experimenting, reflecting and, indeed, continuous learning. (p. 3)

This quotation and all other goals mentioned above inform the need for this extant research, aiming to examine the relationship between business education students' human capital and sustainable development of Nigerian economy from a gendered perspective.

Sustainability is understood in the wider sense as meeting individuals own needs without compromising abilities of future generations to meet their own needs (United Nations Educational Scientific and Cultural Organization, 2005; World Commission on Environment and Development, 1987; World Environmental Education Congress, 2015). Development in its economic sense refers to a certain process of improving the quality of human lives by raising their levels of living, self-esteem, and freedom (Todaro & Smith, 2011). Bringing together these two set of concepts describes sustainable development as a continuous and progressive increase and expansion of a given economy with the improvement in the social, economic, and political life of the present and future generations (Kurya & Hassan, 2007). This may be the reason why Hardi (1997) contended that sustainable development is not a fixed state of harmony; rather, it is an ongoing process of evolution in which individuals take actions leading to the development that meets their current needs without compromising the abilities of future generations to meet their own needs. Based on these conceptual clarifications, sustainable development of Nigerian economy is seen as persistent increase in economic growth, leading to economic competiveness, higher standard of living, and self-reliance (Ekpenyong & Edokpolor, 2015). Sen (1999) reminded us that no individual is free if he or she cannot choose or is imprisoned by living on the margins of subsistence with no education and skill. Therefore, the fulfillment of the SDGs required active participation of the present and future generations; hence, skills development education and training (such as a business education program) are inevitable.

Business education is perhaps one of the major areas of vocational education in Nigeria that is critical to the development of higher-order thinking skills needed by the youths to function effectively in their entrepreneurial and educational careers right after graduation. Titiloye & Muhammed (2016) indicated that business education is a program that prepares the mind, the brain, and the physical body of individuals toward positive contribution to development of societies. Thus, business education can be described as a major engine for improving core values of development. However, in our attempt to teach business education courses in the classroom, we have become aware of gender differences among students in their interests to participate in real-life learning tasks required to become entrepreneurs and lifelong learners upon graduation.

The word *gender* usually refers to as a social construct that establishes and differentiates status and role between men and women particularly in the way they contribute to, participate in and are rewarded by the economy as well as most social institutions (Ametefe & Ametefe, 2007). Although women constitute a high percentage of students in business education across the globe (Miller &

Sisk, 2012), these same women seem not to have the interests to participate in real-life learning tasks in business education. It is disheartening that in spite of women's population in business education, their interest to participate in real-life learning is quite unimpressive. Early research found that interest factor is more influential as students grow older (Sammons, 1995). In fact, Carter and Silva (2010) found that women continue to lag men at every single career stage, right from their first professional careers. Some studies also explained the low position of women in career pursuits mainly by means of differences in human capital accumulation, arguing that women who are as well educated as men secure more or less the same earnings or status in their careers (Siphambe & Thokweng-Bakwena 2001; Nordman & Wolff, 2009; Kuépié, 2016). Goher (2013) rightly argued that educated married couples are often found to be helping hands for each other on different issues and prove to be lifelong learning sources for each other. Becker (1991) has indicated that women's important role in reproduction reduces their professional career productivity and human capital investment. As such, gender differences among business education students is not just an issue that is attributed to Nigeria alone, but globally, where only few percentage of top managers, entrepreneurs, rectors, provosts and vice-chancellors are women (Morley, 2013). Of course, one way to promote gender neutrality in business education is to have female professors who will be persuading female students verbally or given them positive encouragement and feedback, which is currently a major challenge, because business education tends to be dominated by male professors.

Based on the gender disparity, it therefore means that female business education students would lack feminine role models and executive guest speakers. This gender gaps among business education students have been recognized by the FRN (2017) and may be the reason why it stressed the need for vocational education sector (of which business education is a major part) to do more in closing the gender gap, stipulating that the SDG

focuses on the acquisition of foundational and higher-order skills; greater and more equitable access to technical and vocational education and training and higher education; training throughout life; and the knowledge, skills and values needed to function well and contribute to society. (p. 4)

In order for this goal to become a reality, technical and vocational education and training and higher education needs to tackle the "invisible barriers" that prevent women from progressing into entrepreneurial and lifelong learning activities. This speaks more on gender differences of business education students' human capital, which resulted in females being constantly judged as less having opportunity to contribute to sustainable development agenda. Although, an emerging research stream has focused on gender issues in business education (Ball, 2012; Blau, Mittal, Schirmer, & Ozkan, 2017; Igbinedion & Ojeaga, 2013; Kaenzig, Hyatt, & Anderson, 2007; Kelan & Jones, 2010; Riley, 1987; Simpson, 2006;). Despite the bulk of the research literature, the author of this study found no published research that specifically investigated gendered differential effect of business education students' human capital on sustainable development of Nigerian economy.

Human capital theory (Becker, 1964, 1975, 1993) and social feminist theory (Carter & Williams, 2003; Fischer, Reuber, & Dyke, 1993; Johnsen & McMahon, 2005) were adopted as theoretical frameworks for this study. Because there is a pool of evidence of a correlation between human capital and sustainable development of the Nigerian economy (e.g., Adelakun, 2011; Ali, Egbetokun, & Memon, 2017; Eigbiremolen & Anaduaka, 2014; Ekperiware, Olatayo, & Egbetokun, 2017; Idenyi, Eze, & Ogbonna, 2016; Mba, Mba, Ogbuabor, & Ikpegbu, 2013; Ogujiuba, 2013; Ogunleye, Owolabi, Sanyaolu, & Lawal, 2017; Omotayo, 2015; Osoba & Tella, 2017). This is coupled with the significant documentation of gender differences in human capital (such as education, age, prior entrepreneurial experience, prior personal experience, and cognitive properties; Chaganti & Parasuraman, 1996; DeTienne & Chandler, 2007; Goher, 2013; Kedmeneca, Tominc, & Rebernik, 2014; Srinivasan, Woo, & Cooper, 1994; Zavyalova & Kosheleva, 2010), which may suggest that differences in human capital

may at least partially explain gender variations in the intentions of business education students to participate in real-life learning tasks.

Traditionally, human capital has been defined in terms of people's productive capabilities and characteristics: In other words, it is seen as knowledge and skills of people (Organization for Economic Co-operation and Development, 2004). It is the knowledge and skills that people acquire through education and training, being a form of capital, as a product of deliberate investment that yields returns (Schultz, 1961). Human capital is described as investing in both formal and informal education and training, which provides and enhances individual's productivity by providing knowledge, skills, and attitudes and motivation that are necessary for economic and social development (Psacharopoulos & Woodhall, 1985). It is also defined as the acquired human capabilities that are durable traits, which assist in yielding some positive effects upon the performance in socially valued activities (David & Lopez, 2001).

Human capital has been classified into two major categories: general and specific human capital (Becker, 1964, 1975; Buchholtz, Ribbens, & Houle, 2003). Becker (1975) described the general human capital as individuals' knowledge and skills that are useful in performing more than one task. This type of human capital is usually measured by items, such as, formal education, age, prior work experiences, and prior entrepreneurial experiences (Gimeno, Folta, Cooper, & Woo, 1997). As such, providing opportunities for students to participate in real-life learning tasks such as feasibility studies, business planning, simulation exercise, role playing, teaching practice exercise, industrial work experience, field trip, and case study through business education can potentially play an important role in equipping students with divers knowledge and skills to engage in career tasks. Specific human capital on the other hand refers to knowledge and skills that are useful in performing a single task (Becker, 1975). This type of human capital is usually measured by items, such as, prior knowledge and cognitive properties (Venkataraman, 1997; Shane, 2000; Shane & Venkataraman, 2000). Of course, prior knowledge of creating new products or services, improving new products or services, managing resources, risk-taking, and selling goods can also potentially play an important role in motivating students to engage in entrepreneurial and educational careers upon graduation, thus providing them the access to life-sustaining essentials, such as, food, healthcare, housing and protection, and improve their self-esteem and freedom.

It is based on the above clarifications that Lucas (1988) contended that there are important factors that make human capital productive and these are skills and knowledge. Human capital theory proposes that people with high levels of human capital will definitely reap more desirable outcomes (Becker, 1964). This means that an economy with a larger stock of human capital will experience a fast rate of development. Human capital theory rests on the assumption that formal and informal education and training are necessary to improve the productive capacity of a population. In short, human capital theorists have acknowledged that an educated population is a productive population (Denison, 1962; Mincer, 1962; Psacharopoulos, 1985; Romer, 1990). It emphasizes how education increases the productivity and efficiency of people by increasing their levels of cognitive stock of economically productive human capability, which is a product of innate abilities and investment in human beings. The provision of formal education is viewed as an investment in human capital, which proponents of the theory have considered as equally or even more worthwhile than that of physical capital. In the past, economic strength was largely believed to be hinged on tangible assets such as factory, land, equipment, and machines. Modern economists seem to concur that in the new global economy, education and training are the key to improving the human capital and ultimately increasing the economic development of any nation.

The theoretical framework that helps to explain gender differences in business education students' human capital is social feminism. Because, the theoretical roots of social feminists are derived, at least in part, from social learning theory (Fischer et al., 1993; Johnsen & McMahon, 2005), which

postulated that there are differences between males' and females' experiences from the earliest moments of life that result in the fundamentally different ways of viewing the world (Fischer et al., 1993). Social feminism seeks to unravel the ideological nature of human capital as gender divisions (Anthias & Yuval-Davis, 1983). Essentially, social feminism viewed gender as different but equal, and proposes that the differences between women and men are due to unique socialization processes (Carter & Williams, 2003; Johnsen & McMahon, 2005). Social feminist theory suggests that due to the differences in early and ongoing socialization, women and men do differ inherently. It also suggests that this does not mean women are inferior to men, as both may develop different but equally effective traits. The authors of this study suggested that the distinctive experiences among men and women allow them to develop unique human capital, which in turn affects the sustainable development of Nigerian economy. The possession of specific knowledge and skills varies among men and women and these differences strongly influence their intentions to engage in entrepreneurial and lifelong learning tasks. This implies that students use specific knowledge and skills they have acquired to engage in entrepreneurial and lifelong learning tasks.

Based on the differences among male and female business education students' human capital, the author of this research investigated four specific interrelated questions. First, do male and female business education students experience different types of general human capital? Second, do male and female business education students possess different types of general human capital? Third, do the differences in both male and female business education students' general human capital have differential effect on sustainable development of Nigerian economy? And finally, do the differences in both male and female business education students' specific human capital have a differential effect on the sustainable development of Nigerian economy?

The rest of this study is organized as follows. The next sections will be describing the methods used in conducting the study. The data analyses will be presented. The results from data analyses will be discussed. The limitations encountered in the study and suggestions for future research will also be discussed. The implications and recommendations for future practices will be discussed. And finally, logical conclusions will be drawn based on the results of the study.

Methodology

A cross-sectional survey design, by employing a correlational survey research design was used to achieve the specific objectives of the study. This research investigates the relationship between business education student's human capital and core values of sustainable economic development from a gender perspective. This type of design "involves collecting data to determine whether, and to what degree, a relationship exists between two or more quantifiable variables" (Gay, Mills & Airasian, 2009, p. 195). Therefore, a correlational design is appropriate for this study in that it would help to determine whether, or the extent to which a relationship exists between two different independent variables (male and female business education students human capital) and one dependent variable (core values of sustainable economic development). The study sample composed of 375 (107 male and 268 female) students of business education in Federal Universities in South-South geopolitical region of Nigeria. This geopolitical region of Nigeria was preferred for the study due to location of author's institution.

The instrument for data collection was a self-constructed questionnaire. The instrument consists of eight items of general human capital, five items of specific human capital, and three items of core values of sustainable economic development, totaling 16 items. A sample of items raised for general human capital is "I have experienced business planning exercise." A sample of items raised for specific human capital is "I possessed prior knowledge of resource management." A sample of items raised for core values of sustainable economic development is "I have acquired the knowledge and skills to become self-reliant." A panel of four lecturers from business education and measurement

and evaluation ensured the content validity of the instrument. The revised instrument covers types of general human capital, types of specific human capital, and core values of sustainable economic development. The instrument had 4-point scale of 1 (*very low extent*) to 4 (*very high extent*), which was administered on 30 students to determine its reliability. The result showed that the instrument was reliable with Cronbach's alpha coefficient of $\alpha = .90$. The bivariate correlation, analysis of variance, and multiple regressions were applied for the data analyses.

Data Analyses

The results of the data analyzed are presented in Tables 1 to 5.

Table 1. Mean, Standard Deviation, and Bivariate Correlation of the Study Variables

	M	SD	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. FS	3.93	.327	1													
2. BPE	3.73	.505	.446**	1												
3. SE	3.46	.578	.336**	.207**	1											
4. RP	3.35	.546	.298**	.176**	.456**	1										
5. TPE	3.42	.578	.363**	.271**	.055	.187**	1									
6. IWE	3.46	.588	.291**	.254**	.001	.026	.386**	1								
7. WV	3.35	.536	.288**	.180**	.119*	.060	.130*	.332**	1							
8. CS	3.26	.537	.263**	.048	.282**	.190**	.057	.265**	.398**	1						
9. PKNP	2.65	.810	.092	.188**	.212**	.118*	.051	102*	053	018	1					
10. PINP	2.46	.988	.074	.215**	.169**	.045	.024	110*	075	094	.875**	1				
11. PKMR	2.30	1.093	.116*	.136**	.290**	.185**	008	159**	031	.026	.814**	.752**	1			
12. PKRT	2.21	1.141	.057	.108*	.225**	.167**	.043	095	036	016	.770**	.745**	.821**	1		
13. PKSP	2.35	1.091	.088	.150**	.145**	.152**	.078	098	028	.010	.756**	.703**	.754**	.831**	1	
14. CVSD	2.26	.957	.042	$.122^{*}$.131*	.116*	.073	022	.033	.019	.711**	.682**	.741**	.779**	.770*	* 1

Note. N = 375. FS = feasibility study; BPE = business planning exercise; SE = simulation exercise; RP = role-playing; TPE = teaching practice exercise; IWE = industrial work experience; WV = work visit; CS = case studies; PKNP = prior knowledge of creating new products; PINP = prior knowledge of improving new products; PKMR = prior knowledge of managing resources; PKRT = prior knowledge of risk taking; PKSP = prior knowledge of selling products; CVSD = core values of sustainable development.

The results presented in Table 1 showed that the mean responses of business education students' general human capital range from 3.26 to 3.73, while the mean responses of their specific human capital range from 2.21 to 2.65. The aggregate mean responses of business education students' on the core values of sustainable economic development is 2.26. The table also showed that the correlation coefficient of between variables which ranged from .001 to .814.

Testing of the Hypotheses

The data analysis for testing the hypotheses was carried out using analysis of variance and multiple regression statistics.

Hypothesis 1: Male and female business education students experience different types of general human capital.

Table 2. Summary of Analysis Of Variance on General Human Capital Based on Gender

		(Genera	l Huma	an Capi	ital			
		M	ale	Female					
		(n =	107) $(n = 268)$		_				
		M	SD	\boldsymbol{M}	SD	SS/MS	$oldsymbol{F}$	\boldsymbol{p}	Decision
1	Feasibility studies	3.83	.485	3.96	.226	1.311	12.664	.000	Sig.
2	Business planning exercise	3.64	.589	3.77	.463	1.433	5.691	.018	Sig.
3	Simulation exercise	3.31	.692	3.51	.515	3.261	9.990	.002	Sig.
4	Role-playing	3.25	.631	3.39	.504	1.487	5.041	.025	Sig.
5	Teaching practice exercise	3.35	.715	3.44	.513	.738	2.213	.138	ns
6	Industrial work experience	3.35	.578	3.51	.508	1.999	5.861	.016	Sig.
7	Work visit	3.32	.653	3.37	.483	.176	.610	.435	ns
8	Case study	3.17	.680	3.29	.465	1.225	4.282	.032	Sig.

Note. df = 373. SS = sum of squares; MS = mean of squares; Sig. = significant; ns = not significant.

The results presented in Table 2 showed that the male and female students of business education statistically differ in their experience of 6 types of general human capital (F = 4.286-12.664; p = .000-.032), while two types of general human capital are not statistically significant. Thus, Hypothesis 1 is partly supported in this study.

Hypothesis 2: Male and female business education students possess different types of specific human capital.

Table 3. Summary of Analysis of Variance on Specific Human Capital Based on Gender

			Specif	ic Hun	nan Cap	ital			
			Male $(n = 107)$		nale 268)				
		M	SD	M	SD	SS/MS	$oldsymbol{F}$	\boldsymbol{p}	Decision
9	Prior knowledge of Creating new products	3.26	.691	2.40	.720	56.385	111.191	.000	Sig.
10	Prior knowledge of Improving new products	3.18	.711	2.18	.938	76.806	99.342	.000	Sig.
11	Prior knowledge of Managing resources	3.18	.822	1.95	.988	114.954	129.152	.000	Sig.
12	Prior knowledge of Risk-taking	3.09	.864	1.86	1.046	115.976	116.615	.000	Sig.
13	Prior knowledge of Selling products	3.19	.881	2.01	.983	105.035	115.162	.000	Sig.

Note. df = 373. SS = sum of squares; MS = mean of squares; Sig. = significant.

The results presented in Table 3 showed that the male and female students of business education significantly differ in the five types of specific human capital (F = 99.342-129.152; p = .000). The table also depicts that male students possess specific human capital than the female students. Thus, Hypothesis 2 is supported.

Hypothesis 3: Differences in both male and female business education students' general human capital have a significant impact on core values of sustainable economic development.

Table 4. Multiple Regression of General Human	Capital on Core Values of Sustainable Economic
Development	

	General Human Capital												
			Malea			$\mathbf{Female^{b}}$							
	\boldsymbol{B}	SE	β	T	Sig.	\boldsymbol{B}	SE	β	T	Sig.			
(Constant)	.615	.451				.400	1.035		.386	.700			
1. FS	.049	.157	.033	.312	.756	169	.204	050	828	.408			
2. BPE	096	.140	078	689	.493	.348	.101	.211	3.461	.001			
3. SE	.024	.108	.023	.224	.823	.401	.097	.272	4.150	.000			
4. RP	144	.117	124	-1.227	.223	.199	.092	.132	2.157	.032			
5. TPE	.284	.113	.278	2.507	.014	.035	.091	.024	.389	.698			
6. IWE	.195	.110	.198	1.776	.079	131	.091	087	-1.435	.152			
7. WV	.129	.122	.115	1.053	.295	073	.093	046	789	.431			
8. CS	.347	.110	.324	3.169	.002	200	.102	122	-1.964	.051			

Note. FS = feasibility study; BPE = business planning exercise; SE = simulation exercise; RP = role-playing; TPE = teaching practice exercise; IWE = industrial work experience; WV = work visit; CS = case studies.

 $^{a}R^{2} = .455$; adjusted $R^{2} = .410$; F(8, 98) = 10.207 (p = .000). $^{b}R^{2} = .195$; adjusted $R^{2} = .170$; F(8, 259) = 7.852 (p = .000).

The results presented in Table 4 showed that both male and female students of business education statistically significant in the overall model; Male [F (8, 98) = 10.207, P < .001], Female [F (8, 259) = 7.852, P < .001]. The adjusted R² revealed that 45.5% and 19.5% for male and female respectively, which indicates that changes or variances in core values of sustainable economic development cause by general human capital is higher in Male than Female students. However, the Table showed that Male students significantly differ in one type of general human capital than Female, while Female students significantly differ in four types of general human capital than the Male students.

Hypothesis 4: differences in both male and female business education students' specific human capital have a significant impact on core values of sustainable economic development.

Table 5. Multiple Regression of Specific Human Capital on Core Values of Sustainable Economic Development

		General Human Capital											
			Malea			$\mathbf{Female^{b}}$							
	\boldsymbol{B}	SE	β	T	Sig.	\boldsymbol{B}	SE	β	T	Sig.			
(Constant)	.325	.216		1.506	.133	.840	.128		6.559	.000			
9. PKNP	.185	.092	.175	2.012	.047	150	.121	142	-1.242	.215			
10. PINP	.208	.095	.203	2.194	.031	.084	.075	.103	1.122	.263			
11. PKMR	.128	.089	.145	1.444	.152	.124	.061	.161	2.016	.045			
12. PKRT	.171	.088	.203	1.941	.055	.263	.060	.361	4.397	.000			
13. PKSP	.210	.078	.254	2.701	.008	.245	.055	.316	4.434	.000			

Note. PKNP = prior knowledge of creating new products; PINP = prior knowledge of improving new products; PKMR = prior knowledge of managing resources; PKRT = prior knowledge of risk taking; PKSP = prior knowledge of selling products.

 $^{a}R^{2} = .670$; adjusted $R^{2} = .653$; F(5, 101) = 40.967 (p = .000). $^{b}R^{2} = .538$; adjusted $R^{2} = .530$; F(5, 262) = 61.101 (p = .000).

The results presented in Table 5 showed that male students of business education, F(5, 101) = 40.967, p < .001, and female business education students, F(5, 262) = 61.101; p < .001, showed statistical significant on relationship between the possessed specific human capital and core values of sustainable economic development. The adjusted R^2 of male students (65.3%) is higher than that of female students (53.8%), respectively, indicating that changes or variances that would occur in core values of sustainable economic development, caused by specific human capital is higher in male than female students. However, male students showed statistical significant differences in four types of specific human capital, while female students also showed alternate statistical significant differ in four types of specific human capital.

Discussion

The specific aim of this study is to determine the relationship between business education and sustainable development of Nigerian economy from a gendered perspective. The research study has contributed not only to the study of sustainable development of economies, but it also provides the support for the assumptions of social feminist and human capital theories. Using the descriptive statistics of mean, standard deviations and bivariate correlation, the study found a positive relationship between higher levels of both general and specific human capital and core values sustainable economic development. These results conform to the bulk of research findings which established a positive correlation between human capital and sustainable development of Nigerian economy (Eigbiremolen & Anaduaka, 2014; Ekperiware et al., 2017; Idenyi et al., 2016; Ogujiuba, 2013; Omotayo, 2015; Osoba & Tella, 2017).

The study was also designed to test four hypotheses. Hypothesis 1 was formulated to test if male and female students of business education experience different types of general human capital. Hypothesis 2 was formulated to test if male and female students of business education possess different types of general human capital. Hypothesis 3 was also formulated to test if differences in male and female business education students' general human capital would have a significant effect on sustainable economic development. Finally, Hypothesis 4 was further formulated to test if differences in male and female business education students' specific human capital would have a significant effect on sustainable economic development.

Hypothesis 1 partly supports the result of the study, as male and female business education students experience almost the same types of general human capital. Thus, the pool of research evidence to support this finding is limited, nevertheless, it concurred with the general assumption of social feminism that "women and men have different experiential backgrounds and different ways of thinking" (Carter & Williams, 2003, p. 30). In addition, the result from Hypothesis 1 that male and female students experience almost the same types of general human capital supports another assumption of social feminism which suggests that women and men experience different types of general human capital, but neither the male mode of learning experiences is inherently superior to the female mode of exposure to learning experiences (Fischer et al., 1993). However, the unique stocks of general human capital that male and female students of business education have been experiencing differentially may influence their interest to participate in formal and informal learning activities.

Hypothesis 2 supported the results of the study, as male students of business education possess higher level of specific human capital than female students of business education. This result conforms to the general tenets of liberal feminism, which is often contrasted with social feminism that women have been denied critical resources (for example, role models, social networks) to acquire higher levels of specific human capital (such as, creativity, innovation, problem solving). The elimination of these discriminatory practices will result in equal opportunities for female business education students (Carter & Williams, 2003) to contribute to sustainable development of Nigeria.

This finding has called for the implementation of new policies in business education program to increase the number of female professors who will serve as role models to female students of business education.

Hypothesis 3 supported the results of the study, as changes or variance in core values of sustainable development caused by general human capital is higher in male than female students of business education. Again, this result concurs to general assumption of social feminism that women and men have different experiential backgrounds and different ways of thinking (Carter & Williams, 2003). It also agrees with proposition of social feminism that differences between women and men are due to unique career socialization processes (Carter & Williams, 2003; Johnsen & McMahon, 2005). According to Becker (1964), people (including business education students) with higher experiential level of general human capital through formal and informal education will definitely reap more desirable outcomes (Becker, 1964). Thus, the result of this study that male students of business education experience higher levels of general human capital than their female counterparts, suggests that male students of business education would contribute significantly to sustainable development because they utilize their unique knowledge and skills they have to engage in entrepreneurial and lifelong learning tasks.

Hypothesis 4 supported the results of the study, as changes or variances that would occur in core values of sustainable development caused by the specific human capital is higher in male students of business education than their female counterpart. Becker (1991) earlier argued that women's important role in reproduction reduces their professional career productivity and human capital investment. This is apparently the reason why Carter and Silva (2010) found in their research that women continue to lag men at every single career stage, right from their first professional careers. The possession of specific human capital that varies among both men and women has suggested that male students of business education have higher chance to engage in entrepreneurial and educational careers upon graduation. Because business education students utilized specific skills and knowledge they have acquired to promote quality standard of living, self-esteem, and freedom from social servitude.

Limitations of the Study and Suggestions for Future Research

As often said, there is no research without limitation. Therefore, this extant research has some obvious limitations. However, the research has provided empirical evidence regarding the relationship between business education and sustainable development of Nigerian economy from a gendered perspective. First, because the data were collected through a nonexperimental means (i.e., a cross-sectional survey or by employing a correlational survey research design), causal inference could not be made in the study. The author, therefore, recommend that longitudinal and experimental study be conducted so as to improve and provide better results. Second, because the sample size of participants was drawn from a single (federal) university setting in South-South geopolitical zone of Nigeria, caution should be exercise in generalizing results. Therefore, future research should aim at determining the inclusion of more proportionally representative samples (for example, South-East, South-West, North-East, North-West, and North-Central) to allow a more equal and balanced results from all federal universities in Nigeria. Third, because the research participants are homogenous, which were business education students only, caution should also be exercise in generalizing results to students in other fields of study. As such, these categories of students were use in the study because they are currently offering a course designed to equip them with the knowledge and skills needed to engage in entrepreneurial and educational careers right after graduation. Therefore, there is the need for further studies that include other categories of students (or participants) from other vocationally oriented educational disciplines.

Implications and Recommendations for Future Practice

There is an obvious variation among male and female business education students' human capital, and these differences tend to strongly influence their intentions or decisions to participate in sustainable development agenda, both in Nigeria and other parts of the world. The results of this study, therefore, have implications for educational stakeholders and researchers concerning the role of gender on sustainable development. The research found a positive correlation between specific and general human capital and core values of sustainable development. It would thus be very needful for stakeholders to collaboratively invest their resources on business education in so as to ensure implementation of typical instructional methods that would increase student's access to hands-on experience. The study also found that male students possess higher levels of specific human capital than their female counterpart. It would thus be very needful for all stakeholders to collaboratively address the gender variations among business education student's specific human capital by providing them equal opportunities to participate in real-life learning activities so as to expose them to prior knowledge of entrepreneurial experience. The research further found that the variances that occur in core values of sustainable development caused by both general and specific human capital are higher in male students than the female students. It would thus be very needful for all major stakeholders to collaboratively provide the resources that would be directed toward apprenticeship programs to equally equip male and female business education student's with knowledge and skills to participate in sustainable development agenda of Nigeria.

Conclusion

From the findings of this study, it appears based on the overall model that there is a positive link between human capital and core values of sustainable economic development. The research founded a significant difference in the accumulation of specific human capital among male and female business education students. The research further founded variance in the core values of sustainable development, and which were caused by the accumulation of both general and specific human capital in male business education students than their female counterparts. It is therefore concluded that the implementation of typical instructional methods would help in increasing student's access to hands-on experiences. The provision of equal opportunities to both male and female students of business education to participate in real-life activities would help in exposing them to prior knowledge of entrepreneurial experience. In addition, directing business education toward apprenticeship programs would equally equip male and female students with the knowledge and skills to participate in sustainable economic development agenda of Nigeria.

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