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# The Impact of Entrepreneurial Characteristics on Entrepreneurial Intention of Sudanese and Omani University Students

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#### Abstract

This study aims to identify the level of availability of entrepreneurial characteristics among undergraduate students in some universities of Sudan and Oman, and test whether these characteristics have a significant impact on the entrepreneurial intention of these students. The study also intends to make comparison between the attitudes of students in Sudan and Oman towards establishing their businesses (self-employment). The sample of the study (n = 1)574) consists of students from University of Bahri, Sudan International University, and Dhofar University. In order to achieve these objectives, the study adopted the descriptive and analytical approach and used the questionnaire as a tool for collecting primary. The findings reveal that, there is a statistically significant impact of the entrepreneurial characteristics among undergraduate students (need for achievement, self-efficacy and locus of control) on their entrepreneurial intention. The study also found that there are statistically significant differences in the views of the respondents according their universities, concerning the locus of control and entrepreneurial intention. The analysis showed that locus of control among students of Dhofar University and Sudan International University was higher than that of University of Bahri students. Furthermore, it was found that the

entrepreneurial intention among students of Dhofar University was higher than that of Sudan International University & University of Bahri students

Keywords: Entrepreneurial characteristics, intentions, Students, Sudan, Oman

#### 1. Introduction

**1. Introduction** Unemployment is growing among young people, especially among graduates of higher education institutions, which are increasing in number every year. The growing phenomenon is accompanied by the decline of the ability of public and private institutions to absorb more workers. The tendency of Sudanese and Omani university graduates to be job seekers rather than job creators and the limited number of job vacancies result in what is termed as educated unemployment (Kusmintarti, Asdani, and Riwajanti, 2017). The promotion of entrepreneurial activities has attracted a great attention from the academics, politicians and decision makers around the world. This is primarily because entrepreneurship activities generate the majority of new jobs. University students in general are particularly close to the entrepreneurial culture, as they often rely on knowledge and creativity, and thus have great motivation for entrepreneurial work. The personality traits of the individual are among the most important variables affecting his behavior, orientations and performance. Perhaps among these traits and characteristics, are those related to entrepreneurship that drives the individual towards creativity and the adoption of entrepreneurship and entrepreneurial behavior. related to entrepreneurship that drives the individual towards creativity and the adoption of entrepreneurship and entrepreneurial behavior. Entrepreneurial behavior represents the ability to invent new ideas and transform them into implementable plans and project (Al- Nashmi, 2017). Many studies have confirmed that individuals' characteristics contribute significantly to encouraging them to practice entrepreneurial activities. Therefore, entrepreneurship is seen as a solution to unemployment in Sudan and Oman. However, encouraging university students to be job creators rather than job seekers, needs studying their entrepreneurial characteristics that may or may not help them in that regard. The researchers belief that some students will capitalize on their entrepreneurial characteristics to start their own

or may not help them in that regard. The researchers belief that some students will capitalize on their entrepreneurial characteristics to start their own business venture, thus entering the path to economic self-employment and creation of employment opportunities for others (Holienka, Holienková, & Gál, 2015). This study is an attempt to contribute in this field. Universities, training institutions and other organizations try to inculcate these characteristics in students with an attempt to build a conscious generation that recognizes the importance of having the skills, knowledge and abilities it needs to start entrepreneurial work. However, there is little understanding about differences in entrepreneurial characteristics and intentions among students belonging to different cultures (Wilson, Marlino,

and Kickul. 2004). This study is an attempt to identify the level of availability of entrepreneurial characteristics among undergraduate students in some universities of Sudan and Oman, and test whether these characteristics have significant impact on the entrepreneurial intention of these students. The study also intends to make comparison between the attitudes of students in Sudan and Oman towards establishing their businesses (self-employment).

### 2. Literature Review

2.1 The concept of entrepreneurship There are different views on the concept of entrepreneurship or entrepreneurs, depending on various perspectives. Some of these perspectives are based on language, other on personal characteristics, and some others depend on the organizational aspects, each of which has its own legitimacy.

From the linguistic aspect, the phrase entrepreneur derives from the French words entre, which means "between," and prendre, which means "to take." The word was used to point to individuals who "take on the risk" and mediate between dealers or who "undertake" the responsibility of of starting a new business (Barringer and Ireland, 2016, p. 6).

mediate between dealers or who "undertake" the responsibility of of starting a new business (Barringer and Ireland, 2016, p. 6). The personal characteristics approach considers entrepreneurship to be an individual or a characteristic of a particular person who has the ability to take the risk in part or in full. The roots of this concept are related to the psychological interpretation of individuals in different positions and roles (Hussain, 2013,). The important part of this interpretation is to identify and define the pattern of behavior that distinguishes one individual from another in a spatial and temporal circumstance that indicates the type of response to a particular situation that may be very critical. On the other hand, the third approach takes a posture that entrepreneurship depends on the organizational dimension of the firm. Aspects like certainty, trust, creativity, the need to hedge for failure, and to reduce environmental ambiguity and diversity, which represent parameters or a part of critical success factors associated with the implementation of a particular strategy, taking into account the economic interpretation of entrepreneurship. In light of the foregoing, and regardless of the differences found in the definitions of entrepreneurship, there are some definitions that may be generally accepted (Al-Najjar and Al-Ali, 2006). Thus entrepreneurship is regarded as the process of creating something new with value through effort, capital spending, time allocation and risk tolerance. More recent definitions that found general acceptance by the academicians and researchers are given by Hatten, (2016), who states that "Entrepreneurship is the process of identifying opportunities for which marketable needs exist and assuming the risk of creating an organization to

satisfy them". Barringer & Ireland, (2016) define "entrepreneurship as the process by which individuals pursue opportunities without regard to resources they currently control" (Barringer & Ireland, 2016, p. 06). On the other hand Longenecker, et al., (2017) defined the entrepreneur as "the person who relentlessly pursues an opportunity, in either a new or an existing enterprise, to create value while assuming both the risk and the reward for her or his efforts" (Longenecker, Petty, Palich, & Hoy, 2017, p. 06) Based on the above, and in the context of current study, the researchers summarize the procedural definition of entrepreneurship, in line with Al Nashmi 2017, as a set of personal characteristics that enable the individual to seize opportunities and take the risk to create successful projects that generate wealth. Starting a successful business is not easy, as most of the decisions to establish and operate a business are individual decisions related to the entrepreneur alone. This reveals the importance of studying entrepreneurial characteristics for those who are interested in the studies of the entrepreneurship and entrepreneurs. entrepreneurship and entrepreneurs.

#### **2.2 Entrepreneurial Characteristics**

The entrepreneurial characteristics are the abilities and personality traits of the entrepreneur that he/she needs to manage his/her project successfully, in addition to the behavioral and managerial skills that enable him to succeed in his project

In his project Kaufmann and Dant (1999:5) distinguished three models that are used to study entrepreneurship. These models are: trait, process and activities. The trait model represents an important contribution to the entrepreneurship literature. Many researches have been conducted to analyze personality traits of entrepreneurs. For example, in the study, by Sulatn, (2016), locus of control, self-confidence, the need for achievement, risk taking, and independence are taken as determinants of entrepreneurship. In study by Holienka, M. et al. (2015), on the other hand, locus of control, the need for achievement, risk taking, independence and innovativeness have been used as determinants entrepreneurial characteristics of students. Other authors list more than 18 personality traits and characteristics commonly associated with entrepreneurs entrepreneurial characteristics of students. Other authors list more than 18 personality traits and characteristics commonly associated with entrepreneurs. "Although no one is "born" to be an entrepreneur, there are common traits and characteristics of successful entrepreneurs" (Barringer and Ireland, 2016, p: 15). They add other characteristics such as, persuasive, self-confident, self-starter, tenacious, and visionary, stating that these characteristics are developed over time and evolve from an individual's social context. It is clear from the previous presentation that the behavioral practices and personality traits carried by the entrepreneur will support his success and help the success of his project. Moreover, the presentation reveals the absence of a specific list of the entrepreneurial characteristics that can be used to

measure the human personality to determine the availability of these qualities it has. The results of many studies show different and differentiated characteristics of the entrepreneurs, so it is difficult to develop a complete and specific picture of the characteristics and behavior of the entrepreneurs. However, an entrepreneur remains the key to determining the characteristics and behaviors that distinguish him/her from others. In addition to the current characteristics and practices that the researchers have focused on, other new characteristics may be developed based on new researches in this area (Al-Sheikh, Melham, & Al-Cakelike, 2009).

Sheikh, Melham, & Al-Cakelike, 2009). In the light of the above, the researchers found that the most entrepreneurial characteristics that are frequently cited in different studies in the entrepreneurship literature, including ( (Holienka, Holienková, & Gál, 2015, Sulatn, 2016, Sacral, 2017, Al-Nashmi, 2017) and which are more relevant for the nature of the current study to define the entrepreneurial profile of students, are: need for achievement, self-efficacy, and locus of control. **Need for achievement:** It means that entrepreneurs are the people who feel most motivated and need for achievement, compared to ordinary people. This makes them good at choosing the relevant conditions for them to succeed in their business and achieve their challenging goals with a high degree of effectiveness (Al- Nashmi, 2017). This suggests students who have strong need for achievement may tend to have strong intention to start their own businesses. Therefore, we can propose that: *There is a statistically significant impact of the need for achievement on the entrepreneurial intention of students in Sudanese and Omani Universities* 

Universities

**Self-efficacy:** It refers to the individual's belief regarding his or her skills, abilities and resources to perform a specific task. Siva Rajah and Achchuthan (2013) point out that "self-efficacy, describes optimistic self-beliefs to cope with a variety of difficult demands". It is generally believed that self-efficacy is an important variable that explains why people of equal ability perform differently. (Mohd, Yahya and Kamaruddin, 2012), state that the entrepreneurship research on self-efficacy concludes that it is imperative to clarify entrepreneurial intentions and behaviors, as individuals must believe that they can achieve something in starting and operating a new project before doing so. doing so.

Self-efficacy is described as a person's belief (or buoyancy) concerning his or her skills to mobilize motivation, cognitive resources and choices of action necessary to effectively perform a task within a specified context (Mohd, Yahya and Kamaruddin, 2012; Stajkovic and Luthans, 1998; Bandura, 1997). This suggests that students who believe in their skills and abilities will have strong intention to be entrepreneurs. Therefore, we can state

There is a statistically significant impact of Self-efficacy on the entrepreneurial intention of students in Sudanese and Omani Universities Locus of control: It means that the person is able to analyze and interpret events and people by focusing on a system he perceives himself. This perception is based on the ideas, values and traditions of others. Robinson et al. (1991) state that internal control leads to a positive entrepreneurial attitude and most students who receive entrepreneurial formation may develop a higher level of control and self-efficiency (as cited in Karimi, et... al. 2012). It can be said that the task of starting a new project requires that the individual be able to control and control the external factors affecting him. Therefore, we can propose that: can propose that:

There is a statistically significant impact of Self-efficacy on the entrepreneurial intention of students in Sudanese and Omani Universities

# 2.3 Entrepreneurial Intention

2.3 Entrepreneurial Intention Based on a literature review in the context of entrepreneurial intention it can be stated that the most often used theory is Icek Ajzen's theory of planned behavior (Basu and Virick, 2008). The theory of planned behavior, grounded in social brain research, depends on the principle that much human behavior is arranged and is in this way is purposeful behavior. The purposeful behavior is seen as being produced by a prior intent. It affirms that intention is a precise indicator of arranged behavior, particularly in situations where the behavior is hard to watch, uncommon, or includes eccentric time slacks. Thus, the antrepreneurical behavior shows these attributes and this in turn clarifies the entrepreneurial behavior shows these attributes and this in turn clarifies why several empirical studies of entrepreneurship have applied the theory of planned behavior to the study of entrepreneurship from a psychological perspective (Basu and Virick, 2008). So the entrepreneurial intention indicates that individuals are willing to perform a particular behavior, which is the factor that directly precedes and drives behavior, as noted by (Souitaris, Zerbinati, & Al-Laham, 2007). The entrepreneurial intent is the willingness of people to initiate entrepreneurial activities. Some other researchers like Gupta and Bhawe, (2007) think that the planning and implementation of entrepreneurial ideas which are based on mental effort is intentional and directed towards entrepreneurial projects. Given that an individual's intentional and directed towards / her actual behavior, he / she decides to start a project before discovering the relevant job opportunity or determining the type of work he wishes to enter in it (Al-Nashmi, 2017). Consequently, The strength of the intention of the individual determine the level of enthusiasm, and this in turn, is reflected in the level of actual performance that drives it towards the success of the project. That is because there is a link between the intention and the actual entrepreneurial behavior that leads to effective entrepreneurial projects (Ramadan 2013). This makes the entrepreneurial intention of great importance

to the researchers as a field to study and to study the variables that lead to its

to the researchers as a field to study and to study the variables that lead to its positive reinforcement. For the purposes of the current study, the researchers define the entrepreneurial intention as: a university student's motivation to make a conscious plan to perform the behavior of setting up a business and to engage in entrepreneurial work and establish their own projects instead of waiting in line of employment (Basu and Virick, 2008) Many studies, such as Zaidan (2011), Ramadan (2012), Sulatn (2016), and Saral, H. C. (2017), confirm that intentions are a very important predictor of behavior. The model of the current study is based on the theory of planned behavior (Ajzen, 2002), which is based on the fact that any decision to start a new project is planned rather than a reaction. The theory of planned behavior indicates that the behavior of the individual is always organized and planned, and that any behavior is always preceded by intention and desire to perform, and the stronger the intention to conduct any behavior, the higher the success rate of that behavior (Ozaralli & Rivenburgh, 2016). According to Ajzen (2005), behavior is influenced by a variety of factors, including personal, social, and environmental factors, and therefore the researchers conclude that the entrepreneurial intention that lead entrepreneurial behavior is related to some personal characteristics and individual traits that vary from person to person, and this is what the current study aims to prove (Al-Nashmi, 2017).

#### 3. Previous Studies

**Al-Kasasba's 2008** study attempted to measure the degree of readiness of students of business administration at the University of Petra for entrepreneurship. The researcher chose a random sample of 213 students. The results of the study showed that 48.4% of the respondents are heading towards entrepreneurship, while 49.3% of the students are doubtful about their orientation towards entrepreneurship as they show a low level of entrepreneurship. The study also showed that there are no differences in the

 (Zain, et al. 2010) conducted a study entitled "The intention for Entrepreneurship among business students in Malaysia". The study aimed to Entrepreneurship among business students in Malaysia". The study aimed to examine various issues, including personal characteristics and environmental factors that affect the motivation of the entrepreneurial desire of the students of the Faculty of Business in various disciplines at a public university in Malaysia. The study sample consisted of 288 students. The study found that 67.1% of the respondents had the intention to become entrepreneurs and that most of their decisions were influenced by attitudes of their family members by 18.9%, academics by 18% and businessmen by 16%. The study of **Nasser and Al-Amri 2011** aimed at measuring the entrepreneurial characteristics of graduate students in business administration and their impact on entrepreneurship through a comparative analytical study

between the Arab University of Amman and University of Damascus. The researchers used the analytical descriptive approach to reach the results. They examined the impact of number of variables on the entrepreneurial work of the graduate students in business administration at the universities of Amman and Damascus, including self-control, the need for energy, the need for achievement, ambiguity, risk, awareness of time, and self-confidence. The study found that the level of entrepreneurial characteristics (self-control, need for energy, need for achievement, ambiguity, risk, awareness of time, and self-confidence) among the respondents was moderate. There was a statistically significant impact of 22.1% of entrepreneurial characteristics among students of higher studies in business administration at the Universities of Amman and Damascus on entrepreneurial works, and the impact of 21.9% on the conduct of entrepreneurial work, and an impact of 7.8% on ambition in entrepreneurship.

of entrepreneurial work, and an impact of 7.8% on ambition in entrepreneurship. Zidane 2011 conducted a study involving six Egyptian government universities to examine the relationship between the entrepreneurial characteristics of Egyptian university students and the possibility of establishing new projects after their graduation. The researcher pointed out that there is a relatively weak relationship between the characteristics of the students and the possibility of establishing their own projects after graduation (**Gibson et al., 2011**) conducted a study comparing the desire and entrepreneurial tendencies of a sample of students from universities community colleges in the United States, in entrepreneurship programs at the undergraduate level. The study found that university students are fundamentally feeling that they are more willing to start small entrepreneurial projects in the future than college students (**Karimi, et... al. 2012**) in their study titled "Application of Structural Equation Modeling to Assess the Impact of Entrepreneurial Characteristics on Students Entrepreneurial Intentions ", aimed to identify the effect of entrepreneurial characteristics on students' intention to organize their projects in Iranian universities using the structural equation modeling. The main findings of the study are: entrepreneurial intention is positively influenced by the self-efficacy of entrepreneurial intention is positively influenced by the self-efficacy of entrepreneurial intent. The study by **Mohammad, A. S., & Mahmoud, A. M. (2014)**, aimed at measuring the level of entrepreneurship among Taif university students and the role of the university in its development. The study found that university students possess the entrepreneurial characteristics in varying degrees, and that the university has a clear vision and mission which adopts the idea of

entrepreneurship and reflects the interest of the university in supporting

 students' entrepreneurial projects.
 Sulatn, S. M., (2016) conducted a study to identify the level of availability of entrepreneurial characteristics among undergraduate students,
 "Business Administration Specialization" in South Universities in the West Bank.

Bank. The study found that there is a high level of availability of entrepreneurial characteristics among the respondents. The study showed that there were no differences in the degree of availability of entrepreneurial characteristics among the students, due to gender, student GPA, secondary school certificate, and enrollment in youth entrepreneurship programs, while there are differences attributed to the variable such as university. **The study by Holienka, Holienková, & Gál, (2015)** aimed to measure the entrepreneurial characteristics of university students in different disciplines, and to develop implications and recommendations for entrepreneurship education programing according to the observed differences. The study results showed that that there are significant differences in the general enterprising tendency levels, as well as in levels of enterprising potential (i.e. tendency to start up and manage projects). The study concluded that students in different disciplines exhibit different rates of entrepreneurial predispositions predispositions

Al Haramsheh, H. E. (2016) investigated the attitudes of business administration students at Zarqa University toward the establishment of small entrepreneurial projects. The research problem was formulated to investigate the lack of interest or hesitance of graduate students of Business Administration, to establish their own entrepreneurial or small projects. The most important results of the study were: the importance of directing business students to establish small entrepreneurial ventures, and it was also found that one of the main reasons that helps students to establish small entrepreneurial projects to achieve social status, and to be their boss i.e.

small entrepreneurial projects to achieve social status, and to be their boss i.e. to master himself.

Al-Nashmi. studied effects of entrepreneurial (2017) the Al-Nashmi, (2017) studied the effects of entrepreneurial characteristics (locus of control, self-confidence, need for achievement, independency and responsibility, risk-taking, creativity) on entrepreneurial intentions among business students in the University of Science and Technology, Yemen. The study found that there was a significant impact of entrepreneurial characteristics on the intentions to start new ventures among business students in the University of Science and Technology. Based on the regression analysis applied in the study, results also showed that students' locus of control and their creativity level were of the highest influencing variables on students' intentions, whereas self-confidence appeared to be the lowest influencing variable lowest influencing variable.

#### **Comment on previous studies:**

**Comment on previous studies:** The issue of entrepreneurship was of great interest to researchers, but the concept was not that clear to the staff at the organizational level. This may be because of absence of agreement on the concept itself. Consequently there were no clear strategies to demonstrate the extent to which this concept was adopted and taken care of. There is also a great interest in the concept of entrepreneurial intention. However, there is little understanding of the factors that affect students' intentions of becoming entrepreneurs and the relationship between entrepreneurship education and students' entrepreneurial attitudes and intentions. Similarly, little is known about differences in entrepreneurial intentions and attitudes among students belonging to different cultures and ethnicities, and this has been shown in some previous studies.

intentions and attitudes among students belonging to different cultures and ethnicities, and this has been shown in some previous studies. In terms of the objective of the study: It can be noted that previous studies sought to attain various objectives. Most of these studies focused on identifying the entrepreneurial characteristics among students (graduates or undergraduates) and tried to link these characteristics with entrepreneurial intentions (Zain, et al. 2010, Karimi, et. al. 2012, Al Haramsheh, H. E., 2016, Al-Nashmi, 2017). Some Studies expressed the entrepreneurial intention as entrepreneurship (Nasser and Al-Amri 2011), or entrepreneurial tendencies (Gibson et al., 2011), or establishment of entrepreneurial project (Zidan, 2011), or entrepreneurial orientation (Hill, 2011). Some studies added other variables like entrepreneurial education (Holienka, Holienková, & Gál, 2015), while other use personal variables (Sultan, 2016).

while other use personal variables (Sultan, 2016). **In terms of variables of study**: The previous studies also varied in their variables. That multiple variables have been used to measure entrepreneurial characteristics in the previous studies, but the current study adopted three main variables in relation to the entrepreneurial characteristics: (the need for achievement, self-efficacy, and self-control).The current study also differed from previous studies in the sense it has been conducted in number of universities in two different countries, Sudan and Oman, and this allows for making some comparisons.

#### 4. Research Problem and Questions

This research study tries to find out the impact of entrepreneurial characteristics on entrepreneurial intention of undergraduate students in some universities of Sudan and Oman.

In light of the above, the following questions represent the main problem of the study:

- What is the level of availability of entrepreneurial characteristics of students in Sudanese and Omani Universities?
- What is the level of entrepreneurial intention of students in Sudanese and Omani Universities?

• What is the impact of entrepreneurial characteristics on the entrepreneurial intention of students in Sudanese and Omani Universities?

Accordingly, the aim of this study is to identify the effect of entrepreneurial characteristics on the entrepreneurial intention of students in some Sudanese and Omani universities.

The importance of the study stems from the fact that it tries to add to the existing literature on entrepreneurship and entrepreneurial characteristics. The lack of empirical research in this respect in both Sudan and Oman increases the importance to this research. Another aspect which adds to the importance of the study is that it makes some comparison between students in different universities from two different countries.

#### 5. Hypothesis Development

Based on the nature of the study and the information to be obtained from the views of students in a number of universities, and through the questions that the current study seeks to answer, the following hypotheses have been developed:

H1. There is a statistically significant impact of the entrepreneurial characteristics on the entrepreneurial intention of students in Sudanese and Omani Universities.

H1a: There is a statistically significant impact of the **need for** achievement on the entrepreneurial intention of students in Sudanese and **Omani Universities** 

H1b. There is a statistically significant impact of **Self-efficacy** on the entrepreneurial intention of students in Sudanese and Omani Universities

H1c. There is a statistically significant impact of **locus of control** on the

entrepreneurial intention of students in Sudanese and Omani Universities H2. There are no statistically significant differences in the views of the respondents, concerning the impact relationship between the **entrepreneurial characteristics and** the **entrepreneurial intention** of students in Sudanese and Omani Universities, attributed to the university.

### 6. Methodology

In the light of the nature of the study and the objectives it sought to achieve, the researchers used the analytical descriptive method, which is based on the study of the phenomenon as it is in reality and describes it accurately and expresses it quantitatively to explain the impact of the independent variables on the dependent variable. This method is one of the main methods used in social researches, and it is the most appropriate method to describe the entrepreneurial characteristics of university students (the respondents). An

attempt was made to interpret and analyze the data in order to reach results that serve the objectives of the study

The study **population consists** of university students in Sudan and Sultanate of Oman namely, University of Bahri (UoB) and Sudan International University (SIU) from Sudan and Dhofar University (DU) from Oman). Primary sources included a questionnaire developed by the researchers

Primary sources included a questionnaire developed by the researchers as a tool for measuring study variables. In terms of the independent variable entrepreneurial characteristics (need for achievement, self-efficacy and selfcontrol) were based on the study of Sultan (2016) and Nasser & Al-Amri (2011).

The dependent variable entrepreneurial intention was developed based on Zaidan (2011), Karimi, et. al. (2012), Ramadan (2012), Sulatn (2016), and Sacral, H. C. (2017).

The questionnaire was distributed to approximately 660 students in the three universities. A total of 574 of them were properly and consistently answered to be utilized in the analyses

The following table shows the demographic characteristics of the sample members.

Variable	Category	Number	Percentage
	Dhofar University (DU)	127	22.1%
University	Sudan International University (SIU)	224	39.0%
University	University of Bahri (UoB)	223	38.9%
	Total	574	100%
	20 yrs or less	100	17.4%
	More than $20 - 25$ yrs	422	73.5%
Age	More than $25 - 30$ yrs	34	5.9%
	More than 30 yrs	18	3.1%
	Total	574	100%
Gender	Male	257	44.8%
	Female	317	55.2%
	Total	574	100

**Table 1: Demographic Information** 

Table 1, indicates that the highest percentage of students in the sample was from the Sudan International University by 39%, followed by Bahri University with 38.9% of students in the sample and Dhofar University with 22.1%. The table also shows that the percentage of female respondents in the sample was 55.2%, while the percentage of males in the sample was 44.8%. This reflects the current trend of increasing number of female students in institutions of higher education.

The percentage of the sample in the age group (more than 20 - 25 years) was the highest and reached 73.5% of the total sample of the study sample, as well as in the age group (20 years and less) by 17.4%.

The results of the descriptive analysis of the demographic variables of the respondents of the study sample showed that the respondents are capable of understanding of the questionnaire questions and answering them objectively.

In the context of this study, the internal consistency of the study tool was thus evaluated based on the Cronbach's  $\alpha$  internal consistency reliability value. The result of the reliability test showed that the study tool with a Cronbach's  $\alpha$  coefficient of 0.886, is satisfactorily consistent.

#### 7. Analysis of the Study Questions

In this part of the study Questions In this part of the study, the researchers analyzed the responses of the sample to the study questions as follows: Question One: "What is the level of availability of entrepreneurial characteristics of students in Sudanese and Omani Universities? Question Two: "What is the level of entrepreneurial intention of

students in Sudanese and Omani Universities?

To answer these questions, the researchers calculated the arithmetical mean, the standard deviations, and the level of agreement, as follows: Table 2: Means and standard deviations of the Study variables

1 white 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20					
Variable	Mean	Standard	The level of		
		Deviation	Agreement		
The need for Achievement	4.25	.921	Very High		
Self-efficacy	4.35	.930	Very High		
Locus of Control	4.04	1.003	High		
Entrepreneurial Intention	4.04	1.033	High		

Table 2 shows that the students have high level of entrepreneurial characteristics. Means of the five point Likert scale shows that individuals in the sample possess entrepreneurial characteristics. The need for achievement and Self-efficacy, were remarkably high with a mean of 4.25 and 4.35 out of 5. Locus of control and entrepreneurial intention showed a mean of 4.04.

#### 8. **Hypothesis Testing**

In addition to what is provided by the descriptive statistics including, means, standard deviations and agreement levels for the independent and dependent variables, the inferential statistics will show the relationship and impact of the entrepreneurial characteristics on the entrepreneurial intentions of students in Sudanese and Omani universities. Therefore, in this part of the study the researchers examined the hypothesis of the study according to the responses of the sample of the study as follows:

**H1:** There is statistically significant impact of the entrepreneurial characteristics on the entrepreneurial intention of students in Sudanese and

*Omani Universities.* This hypothesis included the basic premise for three sub-Hypotheses which state that:

H1a: There is a statistically significant impact of the **need for** achievement on the entrepreneurial intention of students in Sudanese and Omani Universities

*H1b.* There is a statistically significant impact of **Self-efficacy** on the entrepreneurial intention of students in Sudanese and Omani Universities

H1c. There is a statistically significant impact of **locus of control** on the entrepreneurial intention of students in Sudanese and Omani Universities

To test these hypotheses, the researchers used multiple regression analysis, where all variables were introduced at once into the regression model, as follows:

Table 2. Model Summan

Table 5. Woder Summary						
Correlation	Coefficient of	f	Adjusted	Coefficient	of	Standard Error
	determination		determinati	on		
0.618	0.382		0.379			.550868

The results of Table 3 indicate that the correlation coefficient between the entrepreneurial characteristics (independent variable) and the entrepreneurial intention (dependent variable) is (0.618), which indicates a positive relation between them. This means that if entrepreneur intention is to be enhanced, then it is necessary to have those entrepreneurial characteristics. The adjusted coefficient of determination of (0.379) indicates that entrepreneurial characteristics (independent variable) explains (37.9%) of the change in the entrepreneur intention.

		1 abic 4. 111			
	Sum of	Df.	Mean	F	Sig
	squares		Squares		
Regression	91.149	3	30.383		
Residual	147.492	570	.259	117.419	.000
Total	238.640	573			

Table 4: ANOVA

The results of Table 4 show that the value of (f) for the regression was (117.419) and the statistical significance associated with it is (.000) which is below the statistical significance level (0.05). Based on this result, it can be said that the tendency of the entrepreneurial characteristics on the entrepreneurial intention is statistically significant at a level below (0.05). This means that there is a statistically significant impact at (0.05) level of at least one of the entrepreneurial characteristics on the entrepreneurial intention. In other words, there is a possibility of predicting the entrepreneurial intention of university students surveyed through some or all of the entrepreneurial characteristics.

	Table 5. Correlation Coefficient of the variables						
Source of Variation	Regression coefficient	Beta	Т	Sig			
Constant	0.846		4.682	.000			
The need for Achievement	0.154	0.140	3.568	.000			
Self-efficacy	0.258	0.251	6.120	.000			
Locus of Control	0.350	0.359	9.145	.000			

**Table 5: Correlation Coefficient of the variables** 

Table 5 shows that the coefficient of the locus of control regression was the highest (3.50). The statistical significance associated with the value of (t) for this parameter is (.000), which is lower than the Sig. level of (0.05). The coefficient of self-efficacy regression of is (0.258) with a statistical significance level of (.000), which is less than the statistical significance level (0.05). Finally, the coefficient of regression for the need for achievement is (.154), and the statistical significance associated with the value of (t) is (.000), which is below the level of statistical significance (0.05). According to these data, there is a statistically significant impact at the statistical level (0.05), of the entrepreneurial characteristics of the surveyed university students on their entrepreneurial intention.

H2 There are no statistically significant differences in the views of the respondents concerning the impact of entrepreneurial characteristics and the entrepreneurial intentions of students in Sudanese and Omani Universities attributed to universities.

To test for differences in entrepreneurial characteristics and entrepreneurial intention ANOVA has been used and the results are as follows:

The results of Table 6, show the analysis of the differences between the three universities (University of Bahri (UoB), Sudan International University (SIU) and Dhofar University (DU)) towards the entrepreneurial characteristics and entrepreneurial intention. The statistical significance associated with the value of F in the variables of locus of control and entrepreneurial intention, was lower than (0.05) which shows that there are statistically significant differences in the views of respondents from the three universities towards these two variables.

entrepreneurial intention according to universities						
Dimension	Source of variation	Sum of squares	Df.	Mean Squares	F	Sig.
The need for	Between groups	0.564	2	.282		
The need for Achievement	intra group	195.518	571	.342	0.824	0.439
Acmevement	Total	196.082	573			
	Between groups	1.535	2	.767		
Self-efficacy	intra group	224.717	571	.394	1.950	0.143
	Total	226.252	573			
	Between groups	8.906	2	4.453	10.40	
Locus of Control	intra group	242.205	571	.424	10.49 8	0.000
	Total	251.112	573		0	
	Between groups	4.302	2	2.151		
Entrepreneurial Intention	intra group	234.338	571	.410	5.242	0.006
	Total	238.640	573			

 
 Table 7: Results of ANOVA test for entrepreneurial characteristics and entrepreneurial intention according to universities

To determine the direction of the differences arising in the above test in the variables of locus of control and entrepreneurial intention, a Tukey pairwise comparisons test was used as follows:

 Table 8: Results of the Tukey test for differences between universities regarding the variable of locus of control

University	University	Mean Difference	Sig.
DU	SIU	0.13649	0.143
DU	UoB	$0.32000^{*}$	0.000
SIU	UoB	0.18351*	0.008

Table 8, shows the results of the Tukey pairwise comparison test for the differences between the three universities towards the locus of control variable at the level of significance (0.05). The result showed differences between the views of students of DU and SIU, compared to views of Students UoB. It is observed that locus of control among students of DU and SIU higher than that of UoB students. This interesting result may be attributed to the fact that, while DU and SIU are private universities UoB is a public university. So the differences may be due to organizational culture (entrepreneurial orientation) between private and public universities.

 Table 9: Results of the Tukey test for differences between universities regarding the variable of entrepreneurial intention

variable of entrepreneurial intention						
University	University Mean Difference Sig.		Sig.			
DU	SIU	0.12436	0.189			
	UoB	0.22889*	0.004			
SIU	UoB	0.10453	0.197			

Table (9) presents the results of the Tukey pairwise comparison test for the differences between the three universities towards the entrepreneurial intention variable at the level of significance (0.05). The result shows

differences between the views of students of DU, compared to views of students SIU & UoB. It can be said that the entrepreneurial intention among students of DU is higher than that of SIU & UoB students. This may be attributed to some entrepreneurial environment in DU and Oman in general. The following table summarizes the acceptance or rejection of the hypotheses tested.

Table 10: Hypothesis' Acceptances or Rejections	
Hypothesis Statement	Status
H1. There is a statistically significant impact of the entrepreneurial characteristics on	Accepted
the entrepreneurial intention of students in Sudanese and Omani Universities.	
H1a: There is a statistically significant impact of the <b>need for achievement</b> on the	Accepted
entrepreneurial intention of students in Sudanese and Omani Universities	
H1b. There is a statistically significant impact of <b>Self-efficacy</b> on the entrepreneurial	Accepted
intention of students in Sudanese and Omani Universities	
H1c. There is a statistically significant impact of <b>locus of control</b> on the entrepreneurial	Accepted
intention of students in Sudanese and Omani Universities	
H3. There are no statistically significant differences in the views of the respondents,	Rejected
concerning the impact relationship between the entrepreneurial characteristics and the	
entrepreneurial intention of students in Sudanese and Omani Universities, attributed to	
the university.	

#### 9. Conclusion

The importance of the study is that it explains the entrepreneurial characteristics of university students in Sudan and Oman. Its main objective is to identify those entrepreneurial characteristics that have more impact on their willingness to establish their own businesses rather than waiting in the cue of conventional jobs.

The results of the study indicated that the level of the availability of the three main entrepreneurial characteristics, need for achievement, selfefficacy and locus of control were found to very high, very and high, respectively. In addition the availability level of the entrepreneurial intention among the university students surveyed was also high measured by an average mean of 4.04. These results indicate that students of DU, SIU and UoB enjoy the characteristics of entrepreneurs.

The results of the study showed that the entrepreneurial characteristics of students significantly affect their entrepreneurial intention, which is in line with the result of SmartPLS path analysis. This increases the possibility of students engaging in self-employment activities and entrepreneurial work if the necessary requirements of entrepreneurial work are available.

The result of the analysis of MANOVA showed no statistically significant differences in views of the students in DU, SIU and UoB concerning the impact relationship between the independent variables and the dependent variable. However, the result shows that there are statistically significant differences in the views of the respondents according their universities, concerning the locus of control and entrepreneurial intention. The analysis showed that locus of control among students of DU and SIU was higher than that of UoB students. Furthermore, it was found that the entrepreneurial intention among students of DU was higher than that of SIU & UoB students.

#### **10. Implications of the study**

The study showed the importance of entrepreneurial characteristics as predictors for entrepreneurial intentions of the university students. Therefore, university leaders should be aware of their student's both entrepreneurial characteristics and intentions. In this regard building an entrepreneurial orientation in universities is must through establishing entrepreneurship centers, adopting entrepreneurial support policies and engaging in partnerships with other entrepreneurial supporting bodies.

#### **11. Limitations and Future Research Directions**

The research paper analyzed the impact of only a limited number of entrepreneurial characteristics as the main motivators for entrepreneurial intention. There are definitely other characteristics the study doesn't cover, which might have significant influence on entrepreneurial intention. Another limitation is that the study is limited to the small number of universities. Only three universities are chosen for the study (two from Sudan and One from Oman). Future researchers can consider these variables as well as they can increase both the sampling area and sample size to reveal more representative results

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