Culture and Entrepreneurial Self-Efficacy in Kenya

Christopher K. Ketter¹ & Michael C. Arfsten¹

¹ College of Business, Argosy University - Twin Cities, Eagan, MN, USA

Correspondence: Michael C. Arfsten, College of Business, Argosy University - Twin Cities, 1515 Central Parkway, Eagan, MN 55121, USA. Tel: 1-612-986-9152. E-mail: marfsten@edmc.edu

| Received: January 1, 2015 | Accepted: January 20, 2015 | Online Published: February 25, 2015 |
|---------------------------|---------------------------------------|-------------------------------------|
| doi:10.5539/ibr.v8n3p99 | URL: http://dx.doi.org/10.5539/ibr.va | 8n3p99 |

Abstract

Entrepreneurial enterprises are suggested as a means of reducing poverty and increasing economic success for less developed countries. An Entrepreneurial Self-Efficacy (ESE) survey of 823 males between 18 and 35 years of age in Kenya found significant differences among ethnic communities in their perceived ability to successfully accomplish tasks previously associated with entrepreneurial success. The results indicated significant differences among various ethnic communities on total ESE, and on individual subscales of sourcing, planning, marshaling, implementation-people, and implementation-finance. The implications are that resources available to promote entrepreneurial training and education should be targeted to ethnic communities based on increasing entrepreneurial self-efficacy in areas of lower perceived abilities.

Keywords: entrepreneurial, self-efficacy, Kenya, entrepreneurship

1. Introduction

The role of entrepreneurship in promoting economic growth has been validated in numerous studies, with several of these studies showing a positive correlation between a country's increase in entrepreneurship rate and a concomitant increase in its economic growth rate (Bosma, Wennerkers, & Amoros, 2011; Van Praag & Versloot, 2007). Entrepreneurship leads to the establishment of small to medium size enterprises (SMEs) which leads to increased employment and reduced poverty rates. Governments continue with concerted efforts aimed at promoting entrepreneurship through various policy development initiatives. These policies have had mixed outcomes, with entrepreneurship rates increasing in some countries, while largely remaining unchanged in others (Nafukho & Muyia, 2010). In a desire to further develop the entrepreneurship theory, researchers have recently focused on exploring the factors that might hinder or motivate individuals to venture into entrepreneurship. One factor that has attracted much attention is the self-efficacy shown by an individual towards the establishment of an enterprise.

Self-efficacy is the level of confidence shown by an individual towards the undertaking of a task (Ajzen, 1991). This construct can either be generalized into a variety of tasks or can be tailored to specific tasks. Self-efficacy shown by an individual towards entrepreneurship is known as entrepreneurial self-efficacy (McGee, Peterson, Mueller, & Sequeira, 2009). Past studies have shown that individuals with high scores on this sub skill have higher intentions of establishing enterprises, exert more effort into the enterprise formation process and succeed at a higher rate than those that score low. Several measurement tools for this construct have been developed (Chen, Greene, & Crick, 1998; DeNoble, Ehrlich, & Singh, 2007; McGee et al., 2009).

Bandura (1986) conceptualized the self-efficacy construct in his social cognitive theory (SCT) and surmised that there is a reciprocal relationship between one's behavioral, cognitive, and environmental consequences so that perception of positive consequences reinforces similar behavior in the future while perceived negative consequences discourages similar behavior. Bandura's (1986) SCT theory on self-efficacy is similar to Ajzen's (1991) theory of planned behavior (TPB). The theory of planned behavior notes that the likelihood of an individual undertaking a certain task is contingent on his/her perception that he/she has control over the required resources to successfully undertake the task. Individuals with high perceived control over resources are more likely to undertake the task, exert more effort and succeed at a higher rate than are individuals with low perceived control (Ajzen, 1991). This construct can either be generalized into a variety of tasks or can be tailored to specific tasks. Self-efficacy shown by an individual towards entrepreneurship is known as entrepreneurial self-efficacy (ESE). Having validated the significant role that one's self-efficacy towards entrepreneurship plays in encouraging the

inception of an enterprise and persisting during the process, some researchers have begun to question whether ESE is contingent on culture (McGee et al., 2009).

Culture has been conceptualized variedly in past studies, with some studies viewing culture from a societal stance (Hofstede, 1981; House, Hanges, Javidan, Dorfman, & Gupta, 2004); and others have viewed it from an organizational stance (House, et al., 2004). Still, other researchers have alluded to the existence of subcultures within societies or organizations and conceptualized culture based on the racial (Gibson, 2008) or ethnic roots of participants (Mungai & Ogot, 2012). Consequently, various tools for measuring this construct have been developed with Hofstede's (1984) scale being one of the most widely used. This scale classifies societal cultures into four dimensions consisting of power distance, uncertainty avoidance, individualism versus collectivism, and masculinity versus femininity. Further research led to the addition of three more dimensions: long versus short-term orientation, indulgence versus restraint and monumentalism versus self-restraint (Hofstede, Hofstede, Minkov, & Vinken, 2008).

The purpose of this study is to explore if there are differences in entrepreneurial self-efficacy among young males in eleven ethnic communities in Kenya. McGee et al. (2009) called for examination of the relationship between these two constructs while Mungai & Ogot (2012) pointed to the scarcity of entrepreneurial studies from an African context in the extant literature, noting that studies that had been undertaken from a Western paradigm could not be generalized to Africa because of differences in the stages of cultural evolution. Ethnicity in African countries remains the cultural perspective by which members identify themselves; in contrast, Western sub-cultures have evolved to reflect the national cultures of the specific countries (Mungai & Ogot, 2012).

Understanding the link between culture and entrepreneurial self-efficacy will be of significant interest to schools, micro-credit institutions, and corporations. An individual's self-efficacy score can be improved through training, mentorship, or motivation. Schools tasked with training future entrepreneurs will benefit from this study by gaining insights into the role that culture plays in motivating individuals towards entrepreneurship. This insight can be used in establishing custom curriculums based on an ethnic community's scores. Outcomes of this study will also aid a micro-credit institution's determination of the level of training that various ethnic communities need before extending credit to entrepreneurs. Within a corporate setting, this study can inform corporations keen on expanding to ethnically diverse countries of the level of training employees may need in order to foster corporate entrepreneurship.

1.1 Research Questions

- 1) Are there differences in total ESE among the 11ethnic communities in Kenya?
- 2) Are there differences in ESE subscales among the 11ethnic communities in Kenya?

2. Literature Review

Wennberg, Pathak, and Autio (2013) explored whether culture moderates the positive relationship between entrepreneurial entry and self-efficacy. Using House et al.'s (2004) Performance Orientation and Institutional Collectivism scales to measure culture, Wennberg et al. (2013) concluded that the relationship between entrepreneurial entry and self-efficacy is moderated by these two constructs. Kumar and Uzkurt (2011) found that self-efficacy and consumer innovativeness are positively correlated and that this correlation is moderated by Hofstede's (1984) individualism dimension.

Urban (2006) examined differences in self-efficacy among three sub-cultures in South Africa: Indians, Blacks, and Caucasians. He argued that sub-cultures have different motivational factors and hypothesized that levels of intentions towards establishing enterprises may vary for various sub-cultures. Using a modified 15-item scale developed using items from the generalized efficacy scale and Chen et al.'s (1998) scale, Urban (2006) concluded that there were statistically significant differences between Indians and Blacks on ESE innovation. He also found differences in ESE finance between Indians and Caucasians as well as differences in general self-efficacy between Indians and Caucasians.

Jung, Ehrlich, Alex, and DeNoble (2001) investigated ESE differences between a U.S. sample and a Korean sample, two societies that score differently on Hofstede's (1997) individualism and uncertainty avoidance dimensions. The individualism dimension measures the strength of the social bonds among societal members and societies scoring high on this dimension are described as individualistic while societies scoring low are described as collectivist. The uncertainty avoidance dimension describes the extent to which societal members are able to tolerate situations that are novel, uncertain, unpredictable, or unstructured and societies scoring high on this dimension are considered to prefer predictable or stable situations. The U.S. scores higher on the individualism dimension and lower on the uncertainty avoidance dimension compared to Korea. Analysis of sample differences

between the two countries found differences on ESE between the two samples (Jung et al., 2001).

This study seeks to expand the literature on the relationship between culture and ESE by examining differences in ESE between 11 Kenyan ethnic communities. The next section presents the methodology to be used in exploring the differences.

3. Method

A survey will be used to explore differences in entrepreneurial intentions among males age 18 to 35 from 11 ethnic communities in Kenya.

3.1 Instrumentation

The Entrepreneurial Self-Efficacy (ESE) scale, a 19-item survey instrument, is used to survey participants from the 11communities (McGee et al., 2009). The independent variable is ethnicity while the dependent variables are total ESE score, as well as, the five subscale scores. The subscales are searching (brainstorming, need identification, and product/service design), planning (estimating demand, pricing, funding, and marketing), marshaling (visioning, networking, business planning), implementation-people (supervising, recruiting, delegating, problem-solving, motivating, and training), and implementation-finance (maintaining finances, managing assets, interpreting financials). Items are rated by participants in terms of their confidence in their ability to complete the activities described by the subscales. Ratings are scored from 1 = very little confidence to 5 = complete confidence. Higher scores indicate the participants' confidence in accomplishing the items shown to be related to entrepreneur success (McGee et al., 2009).

3.2 Sample

This study builds on Ketter (2014) by expanding the number of sub-cultures from six to 11 ethnicities in Kenya. Participants were randomly selected from Kenya's 11 largest ethnic communities: Kalenjin, Kamba, Kikuyu, Kisii, Luhya, Luo, Masai, Meru, Mijikenda, Somali, and Turkana. Participants were sampled from 11 ethnically homogeneous rural counties in Kenya. Participants were limited to males, aged 18-34 years old.

Cluster sampling was used to identify counties with the largest concentration of targeted ethnic communities and research assistants were instructed to visit and obtain participants from the largest town in that particular county. For example, Kakamega County is predominantly inhabited by members of the Luhya ethnic community. The largest town in this county is Kakamega and so participants from the Luhya community were sampled from this city. Table 1 presents the percentage of the Kenyan population by ethnicity, sample size, percentage of sample by ethnicity, and representative county for sampling each ethnicity. Sample sizes were based on population percentages for each ethnicity. G*Power 3 was used to estimate the sample size with .80 power and a medium effect (Faul, Erdfelder, Lang, & Buchner, 2007). The total sample was 823.

| Ethnicity | Percent of Population | Sample | Percent of Sample | Sample Town, County |
|-----------|-----------------------|--------|-------------------|-----------------------------|
| Kalenjin | 14.2 | 117 | 14.2 | Eldoret, Uasin Gishu County |
| Kamba | 11.2 | 92 | 11.2 | Machakos, Machakos county |
| Kikuyu | 19.0 | 156 | 19.0 | Nyeri, Nyeri County |
| Kisii | 6.3 | 52 | 6.3 | Kisii, Kisii County |
| Luhya | 15.3 | 126 | 15.3 | Kakamega, Kakamega County |
| Luo | 11.6 | 96 | 11.7 | Siaya, Siaya County |
| Masai | 2.4 | 21 | 2.6 | Narok, Narok County |
| Meru | 4.8 | 38 | 4.6 | Meru, Meru County |
| Mijikenda | 5.6 | 46 | 5.6 | Kilifi, Kilifi County |
| Somali | 6.8 | 56 | 6.8 | Garissa, Garissa County |
| Turkana | 2.8 | 23 | 2.8 | Lodwar, Turkana County |

Table 1. Ethnic population distribution, sample size, and source

3.3 Procedures

Research assistants in the largest city in each of the 11countries randomly selected participants from the public who were asked to participate in the research study. If they agreed, the participants were given a consent form and

the ESE survey form to complete.

3.4 Alpha Level

The alpha level for rejection of the null hypothesis was set at .001. A Bonferroni adjustment was used to control for multiple post-hoc analyses in order to keep the post-hoc alpha level at .001 (Shaffer, 1995).

4. Results

4.1 General Results

A Shapiro-Wilk's test (p > .05) (Razali & Wah, 2011; Shapiro & Wilk, 1965) and a visual inspection of the histograms, normal Q-Q plots, and box plots showed that the exam scores were approximately normally distributed for each ethnic group. The studentized range was used to assess for significant differences in kurtosis on each independent variable among the ethnicities (p > .001) indicating that there was not a violation of normality due to kurtosis (Tracy & Doane, 2005). A Levene's test indicated a lack of equality of variances in the samples (homogeneity of variance) (p = .000) (Tabachnick & Fidell, 2007) as did a Brown-Forsythe test for equal group variances (p=.000) (Brown & Forsythe, 1974). While Analysis of Variance (ANOVA) is generally considered to be robust to violations of normality, it is not robust in terms of violations of the assumption of homogeneity of variance (Box, 1954; Ramsey & Ramsey, 2009). Wilcox, Charlin, and Thompson (1986) demonstrated that the Brown-Forsythe and Welch adjustments to ANOVA are not applicable to control for violations of the assumption of homogeneity of variance when sample sizes are not equal, which is the case in this study. Therefore, a nonparametric test of hypothesis would be used for the analyses. Table 2 presents the nonparametric Levene test of homogeneity of variances. It indicates that the variances differ significantly among ethnicities on the total ESE score, and on all ESE subscales (Nordstokke & Zumbo, 2010). Mood's median test was selected for the analyses of the hypotheses as it is more robust in terms of heterogeneity of variance than the Kruskal-Wallis test.

| Dependent Variable | F | df1 | df2 | Sig. |
|------------------------------|-------|-----|-----|------|
| Total ESE | 6.922 | 10 | 812 | .000 |
| ESE Searching | 7.172 | 10 | 812 | .000 |
| ESE Planning | 4.177 | 10 | 812 | .000 |
| ESE Marshaling | 4.872 | 10 | 812 | .000 |
| ESE Implementation-People | 6.963 | 10 | 812 | .000 |
| ESE Implementation-Financial | 7.689 | 10 | 812 | .000 |

Table 2. Nonparametric Levene's test of equality of error variance for ESE scores ^a

^a Tests the null hypothesis that error variance for the median of the dependent variable is equal across all groups.

4.2 Test of Hypotheses

An initial consideration was whether age and years of post-secondary education could act as covariates to influence the effect of ethnicity on ESE scores. An analysis of covariance was conducted with ethnicity as the independent variable, age and years of post-secondary education as covariates and the total ESE score as the dependent variable. The analysis indicated that age, years of post-secondary education, and all interaction terms were not significant at p=.01. Thus age and years of post-secondary education were not considered in any further analyses.

4.2.1 Hypothesis 1

Hypothesis 1 is whether there are significant differences in Total ESE scores among the 11 ethnic communities in Kenya. Table 3 presents the descriptive statistics for total ESE score for each ethnicity. Table 4 presents a count of the number of subjects scoring above and at, or below, the Total ESE group median for each ethnicity. A Mood's median test, with a continuity correction, was performed to examine the relationship between ethnicity and total ESE scores. The relation between these variables was significant, X^2 (10, N = 823) = 143.336, p = .000, Cramer's V = .417. Cramer's V, a measure of effect size, indicates that ethnicity has a large effect on total ESE scores. Post hoc analyses were performed using Mood's median test, with the Bonferroni correction to maintain the pair-wise error rate. Table 5 presents the pairs of ethnic groups that showed significant differences (p = .000) on the total ESE score. Cramer's V ranged from .361 to .634, indicating that the difference in ethnicity between the pairs had a

medium to large effect on total ESE scores.

| | | | | | | | | Median | 99.9% CI |
|-----------|-----|------|------|--------|------|------|------|--------|----------|
| Ethnicity | Ν | Min | Q1 | Median | Q3 | Max | IRQ | Lower | Upper |
| Kalenjin | 117 | 1.37 | 2.92 | 3.32 | 3.58 | 4.89 | 0.66 | 3.14 | 3.47 |
| Kamba | 92 | 1.89 | 2.80 | 3.21 | 3.63 | 4.63 | 0.83 | 3.00 | 3.47 |
| Kikuyu | 156 | 2.37 | 3.54 | 3.89 | 4.32 | 4.84 | 0.78 | 3.74 | 4.16 |
| Kisii | 52 | 2.47 | 3.42 | 3.74 | 4.12 | 5.00 | 0.70 | 3.47 | 3.95 |
| Luhya | 126 | 2.47 | 2.89 | 3.05 | 3.33 | 4.63 | 0.44 | 3.00 | 3.16 |
| Luo | 96 | 1.58 | 2.85 | 3.21 | 3.68 | 4.68 | 0.83 | 3.03 | 3.53 |
| Masaai | 21 | 1.74 | 2.16 | 2.68 | 3.48 | 3.84 | 1.32 | 2.08 | 3.68 |
| Meru | 38 | 2.58 | 3.08 | 3.45 | 3.82 | 5.00 | 0.73 | 3.11 | 3.79 |
| Mijikenda | 46 | 1.42 | 2.84 | 3.21 | 3.74 | 4.58 | 0.90 | 2.84 | 3.74 |
| Somali | 56 | 2.37 | 2.63 | 3.22 | 4.23 | 5.00 | 1.60 | 2.63 | 3.84 |
| Turkana | 23 | 1.84 | 2.21 | 2.58 | 2.89 | 3.58 | 0.68 | 2.11 | 3.00 |
| Total | 823 | 1.37 | 2.95 | 3.32 | 3.84 | 5.00 | 0.89 | 3.21 | 3.47 |

Table 3. Descriptive statistics for total ESE score by ethnicity

Table 4. Total ESE by ethnicity crosstabulation

| Count | Ethnicity | | | | | | | | | | | Total |
|-----------|-----------|-------|--------|-------|-------|-----|--------|------|-----------|--------|---------|-------|
| | Kalenjin | Kamba | Kikuyu | Kisii | Luhya | Luo | Masaai | Meru | Mijikenda | Somali | Turkana | |
| > Median | 57 | 36 | 129 | 40 | 31 | 42 | 5 | 22 | 22 | 25 | 2 | 411 |
| == Median | 60 | 56 | 27 | 12 | 95 | 54 | 16 | 16 | 24 | 31 | 21 | 412 |
| Total | 117 | 92 | 156 | 52 | 126 | 96 | 21 | 38 | 46 | 56 | 23 | 823 |

Table 5. Total ESE pair-wise post hoc tests

| | Ethnicity | Median | $\chi^{2 a}$ | df | Asymptotic Significance ^b | Cramer's V |
|--------|-----------|--------|--------------|----|--------------------------------------|------------|
| Kikuyu | - | 3.89 | | | | |
| | Kalenjin | 3.32 | 33.995 | 1 | 0.000 | 0.361 |
| | Somali | 3.22 | 28.135 | 1 | 0.000 | 0.376 |
| | Kamba | 3.21 | 47.382 | 1 | 0.000 | 0.446 |
| | Luo | 3.21 | 39.554 | 1 | 0.000 | 0.405 |
| | Luhya | 3.05 | 93.468 | 1 | 0.000 | 0.583 |
| | Masaai | 2.68 | 31.763 | 1 | 0.000 | 0.444 |
| | Turkana | 2.58 | 52.219 | 1 | 0.000 | 0.559 |
| Kisii | - | 3.74 | | | | |
| | Luhya | 3.05 | 39.869 | 1 | 0.000 | 0.486 |
| | Turkana | 2.58 | 27.421 | 1 | 0.000 | 0.634 |

^a Pearson chi-square with continuity correction.

^b Significant at the 0.001 level with Bonferroni correction.

4.2.2 Hypothesis 2

Hypothesis 2 is whether there are significant differences on the ESE subscale scores (searching, planning, marshaling, implementation-people, and implementation-finance) among the 11 ethnic communities in Kenya.

4.2.2.1 ESE Searching

Table 6 presents the descriptive statistics for the ESE searching score for each ethnicity. Table 7 presents a count of the number of subjects scoring above and at, or below, the ESE searching group median for each ethnicity. A Mood's median test, with a continuity correction, was performed to examine the relationship between ethnicity and ESE searching scores. The relation between these variables was significant, X^2 (10, N = 823) = 97.592, p = .000, Cramer's V = .344, indicating that ethnicity has a fairly large effect on ESE searching scores. Post hoc analyses were performed using Mood's median test, with the Bonferroni correction. Table 8 presents the pairs of ethnic groups that showed significant differences (p = .000) on the ESE searching score. Cramer's V ranged from .353 to .544, indicating that the difference in ethnicity between the pairs had a medium to large effect on ESE searching scores.

| Ethnicity | Ν | Min | Q1 | Median | Q3 | Max | IRQ | Median 9 | 9.9% CI |
|-----------|-----|------|------|--------|------|------|------|----------|---------|
| | | | | | | | | Lower | Upper |
| Kalenjin | 117 | 1.00 | 2.33 | 2.67 | 3.33 | 5.00 | 1.00 | 2.67 | 3.33 |
| Kamba | 92 | 1.00 | 2.00 | 2.33 | 2.67 | 4.33 | 0.67 | 2.00 | 2.67 |
| Kikuyu | 156 | 1.33 | 2.67 | 3.33 | 3.67 | 5.00 | 1.00 | 3.00 | 3.67 |
| Kisii | 52 | 1.67 | 2.42 | 3.33 | 3.92 | 5.00 | 1.50 | 2.67 | 3.67 |
| Luhya | 126 | 2.00 | 2.67 | 3.00 | 3.67 | 5.00 | 1.00 | 3.00 | 3.33 |
| Luo | 96 | 1.33 | 2.67 | 3.00 | 3.67 | 5.00 | 1.00 | 3.00 | 3.33 |
| Masaai | 21 | 1.67 | 2.00 | 2.33 | 3.00 | 4.00 | 1.00 | 2.00 | 3.33 |
| Meru | 38 | 1.33 | 2.67 | 3.33 | 3.67 | 5.00 | 1.00 | 2.67 | 3.67 |
| Mijikenda | 46 | 1.50 | 2.75 | 3.25 | 4.00 | 4.75 | 1.25 | 2.75 | 3.75 |
| Somali | 56 | 1.00 | 2.67 | 3.33 | 4.00 | 5.00 | 1.33 | 2.67 | 3.67 |
| Turkana | 23 | 1.00 | 1.67 | 2.00 | 2.33 | 3.00 | 0.66 | 1.67 | 2.33 |
| Total | 823 | 1.00 | 2.67 | 3.00 | 3.67 | 5.00 | 1.00 | 3.00 | 3.00 |

Table 6. Descriptive statistics for ESE searching score by ethnicity

Table 7. ESE searching by ethnicity crosstabulation

| Count | | Ethnicity | | | | | | | | | | |
|-----------|----------|-----------|--------|-------|-------|-----|--------|------|-----------|--------|---------|-----|
| | Kalenjin | Kamba | Kikuyu | Kisii | Luhya | Luo | Masaai | Meru | Mijikenda | Somali | Turkana | |
| > Median | 45 | 9 | 93 | 29 | 53 | 47 | 4 | 20 | 28 | 31 | 0 | 359 |
| == Median | 72 | 83 | 63 | 23 | 73 | 49 | 17 | 18 | 18 | 25 | 23 | 464 |
| Total | 117 | 92 | 156 | 52 | 126 | 96 | 21 | 38 | 46 | 56 | 23 | 823 |

Table 8. ESE searching post hoc pair-wise tests

| Eth | nicity | Median | χ^{2} a | df | Asymptotic Significance ^b | Cramer's V |
|----------|-----------|--------|--------------|----|--------------------------------------|------------|
| Kamba - | | 2.33 | | | | |
| | Kikuyu | 3.33 | 57.313 | 1 | 0.000 | 0.489 |
| | Kisii | 3.33 | 33.840 | 1 | 0.000 | 0.501 |
| | Meru | 3.33 | 26.070 | 1 | 0.000 | 0.468 |
| | Somali | 3.33 | 34.386 | 1 | 0.000 | 0.498 |
| | Mijikenda | 3.25 | 38.225 | 1 | 0.000 | 0.544 |
| | Luhya | 3.00 | 25.663 | 1 | 0.000 | 0.353 |
| | Luo | 3.00 | 32.626 | 1 | 0.000 | 0.428 |
| Kikuyu - | | 2.67 | | | | |
| | Turkana | 1.67 | 26.201 | 1 | 0.000 | 0.399 |

^a Pearson chi-square with continuity correction.

4.2.2.2 ESE Planning

Table 9 presents the descriptive statistics for the ESE planning score for each ethnicity. Table 10 presents a count of the number of subjects scoring above and at, or below, the ESE planning group median for each ethnicity. A Mood's median test, with a continuity correction, was performed to examine the relationship between ethnicity and ESE planning scores. The relation between these variables was significant, X^2 (10, N = 823) = 89.102, p = .000, Cramer's V = .331, indicating that ethnicity has a fairly large effect on ESE searching scores. Post hoc analyses were performed using Mood's median test, with the Bonferroni correction. Table 11 presents the pairs of ethnic groups that showed significant differences (p = .000) on the ESE planning score. Cramer's V ranged from .461 to .490, indicating that the difference in ethnicity between the pairs had a fairly large effect on ESE planning scores.

| Ethnicity | Ν | Min | Q1 | Median | Q3 | Max | IRQ | Median 9 | 9.9% CI |
|-----------|-----|------|------|--------|------|------|------|----------|---------|
| | | | | | | | | Lower | Upper |
| Kalenjin | 117 | 1.50 | 2.75 | 3.25 | 3.75 | 5.00 | 1.00 | 3.00 | 3.50 |
| Kamba | 92 | 1.25 | 2.75 | 3.25 | 3.75 | 4.50 | 1.00 | 3.00 | 3.50 |
| Kikuyu | 156 | 1.75 | 3.25 | 3.75 | 4.25 | 5.00 | 1.00 | 3.50 | 4.00 |
| Kisii | 52 | 1.75 | 3.25 | 3.75 | 4.00 | 5.00 | 0.75 | 3.25 | 4.00 |
| Luhya | 126 | 2.00 | 2.75 | 3.00 | 3.25 | 4.50 | 0.50 | 2.75 | 3.25 |
| Luo | 96 | 1.75 | 2.75 | 3.25 | 3.75 | 4.75 | 1.00 | 3.00 | 3.50 |
| Masaai | 21 | 2.00 | 2.13 | 2.75 | 3.38 | 3.75 | 1.25 | 2.00 | 3.50 |
| Meru | 38 | 2.50 | 3.00 | 3.50 | 3.75 | 5.00 | 0.75 | 3.00 | 3.75 |
| Mijikenda | 46 | 1.67 | 2.67 | 3.33 | 4.00 | 5.00 | 1.33 | 2.67 | 4.00 |
| Somali | 56 | 2.25 | 2.75 | 3.00 | 4.00 | 5.00 | 1.25 | 2.75 | 4.00 |
| Turkana | 23 | 1.50 | 2.25 | 2.50 | 3.25 | 4.00 | 1.00 | 2.00 | 3.25 |
| Total | 823 | 1.25 | 2.75 | 3.25 | 3.75 | 5.00 | 1.00 | 3.25 | 3.50 |

Table 9. Descriptive statistics for ESE planning score by ethnicity

Table 10. ESE planning by ethnicity crosstabulation

| Count | Ethnicity | | | | | | | | | | | |
|-----------|-----------|-------|--------|-------|-------|-----|--------|------|-----------|--------|---------|-----|
| | Kalenjin | Kamba | Kikuyu | Kisii | Luhya | Luo | Masaai | Meru | Mijikenda | Somali | Turkana | |
| > Median | 50 | 36 | 103 | 37 | 25 | 47 | 5 | 20 | 19 | 24 | 4 | 370 |
| == Median | 67 | 56 | 53 | 15 | 101 | 49 | 16 | 18 | 17 | 32 | 19 | 443 |
| Total | 117 | 92 | 156 | 52 | 126 | 96 | 21 | 38 | 36 | 56 | 23 | 813 |

Table 11. ESE planning post hoc pair-wise tests

| | Ethnicity | Median | χ^{2a} | df | Asymptotic Significance ^b | Cramer's V |
|-------|-----------|--------|-------------|----|--------------------------------------|------------|
| Luhya | - | 3.00 | | | | |
| | Kikuyu | 3.75 | 58.131 | 1 | 0.000 | 0.461 |
| | Kisii | 3.75 | 40.466 | 1 | 0.000 | 0.490 |

^a Pearson chi-square with continuity correction.

^b Significant at the 0.001 level with Bonferroni correction.

4.2.2.3 ESE Marshaling

Table 12 presents the descriptive statistics for the ESE marshaling score for each ethnicity. Table 13 presents a

count of the number of subjects scoring above and at, or below, the ESE marshaling group median for each ethnicity. A Mood's median test, with a continuity correction, was performed to examine the relationship between ethnicity and ESE marshaling scores. The relation between these variables was significant, X^2 (10, N = 823) = 97.549, p = .000, Cramer's V = .344, indicating that ethnicity has a fairly large effect on ESE marshaling scores. Post hoc analyses were performed using Mood's median test, with the Bonferroni correction. Table 14 presents the pairs of ethnic groups that showed significant differences (p = .000) on the ESE marshaling score. Cramer's V ranged from .322 to .458, indicating that the difference in ethnicity between the pairs had a fairly large effect on ESE marshaling scores.

Ethnicity Ν Min 01 Median 03 Max IRQ Median 99.9% CI Lower Upper Kalenjin 117 1.00 3.00 3.33 3.67 5.00 0.67 3.17 3.67 92 1.00 2.67 3.33 3.67 5.00 1.00 3.00 3.67 Kamba Kikuyu 156 1.67 3.33 4.00 4.33 5.00 1.00 3.67 4.17 Kisii 52 2.00 3.00 3.85 4.33 5.00 1.33 3.33 4.33 3.00 Luhya 126 2.00 3.00 3.33 3.33 5.00 0.33 3.33 3.00 Luo 96 1.33 3.00 3.33 3.67 4.67 0.67 3.67 Masaai 21 1.67 2.33 2.67 3.33 4.67 1.00 2.00 3.50 Meru 38 2.33 3.00 3.33 3.67 5.00 0.67 3.00 3.67 Mijikenda 46 1.33 2.67 3.33 3.67 5.00 1.00 2.84 3.67 Somali 56 1.00 2.67 3.00 4.00 5.00 1.33 2.67 3.67 2.33 2.00 Turkana 23 1.33 2.67 3.33 3.67 1.00 3.33 Total 3.00 5.00 823 1.003.33 4.00 1.00 3.33 3.33

Table 12. Descriptive statistics for ESE marshaling score by ethnicity

Table 13. ESE Marshaling by ethnicity crosstabulation

| Count | | Ethnicity T | | | | | | | | | | Total |
|-----------|----------|-------------|--------|-------|-------|-----|--------|------|-----------|--------|---------|-------|
| | Kalenjin | Kamba | Kikuyu | Kisii | Luhya | Luo | Masaai | Meru | Mijikenda | Somali | Turkana | |
| > Median | 44 | 38 | 109 | 34 | 30 | 33 | 3 | 13 | 17 | 24 | 3 | 348 |
| == Median | 73 | 54 | 47 | 18 | 96 | 63 | 18 | 25 | 29 | 32 | 20 | 475 |
| Total | 117 | 92 | 156 | 52 | 126 | 96 | 21 | 38 | 46 | 56 | 23 | 823 |

| Table 14. ESE maishaning post noc pair-wise tests | Table 14. | ESE | marshaling | post hoc | pair-wise | tests |
|---|-----------|-----|------------|----------|-----------|-------|
|---|-----------|-----|------------|----------|-----------|-------|

| Ethnicity | | Median | χ^{2} a | df | Asymptotic Significance ^b | Cramer's V |
|-----------|----------|--------|--------------|----|--------------------------------------|------------|
| Kikuyu - | | 4.00 | | | | |
| | Kalenjin | 3.33 | 26.958 | 1 | 0.000 | 0.322 |
| | Luhya | 3.33 | 57.339 | 1 | 0.000 | 0.458 |
| | Luo | 3.33 | 29.017 | 1 | 0.000 | 0.348 |
| | Masaai | 2.67 | 22.276 | 1 | 0.000 | 0.373 |
| | Turkana | 2.67 | 26.267 | 1 | 0.000 | 0.393 |
| Kisii - | | 3.85 | | | | |
| | Luhya | 3.33 | 25.854 | 1 | 0.000 | 0.394 |

^a Pearson chi-square with continuity correction.

4.2.2.4 ESE Implementation-People

Table 15 presents the descriptive statistics for ESE implementation-people score for each ethnicity. Table 16 presents a count of the number of subjects scoring above and at, or below, the ESE implementation-people group median for each ethnicity. A Mood's median test, with a continuity correction, was performed to examine the relationship between ethnicity and ESE implementation-people scores. The relation between these variables was significant, X^2 (10, N = 823) = 171.027, p = .000, Cramer's V = .456, indicating that ethnicity has a very large effect on ESE implementation-people scores. Post hoc analyses were performed using Mood's median test, with the Bonferroni correction. Table 17 presents the pairs of ethnic groups that showed significant differences (p = .000) on the ESE implementation-people score. Cramer's V ranged from .390 to .648, indicating that the difference in ethnicity between the pairs had a very large effect on ESE implementation-people scores.

| Ethnicity | Ν | Min | Q1 | Median | Q3 | Max | IRQ | Median | 99.9% CI |
|-----------|-----|------|------|--------|------|------|------|--------|----------|
| | | | | | | | | Lower | Upper |
| Kalenjin | 117 | 1.50 | 3.00 | 3.33 | 3.83 | 5.00 | 0.83 | 3.17 | 3.50 |
| Kamba | 92 | 1.83 | 2.71 | 3.33 | 3.79 | 5.00 | 1.08 | 3.00 | 3.50 |
| Kikuyu | 156 | 2.17 | 3.67 | 4.17 | 4.50 | 5.00 | 0.83 | 4.00 | 4.33 |
| Kisii | 52 | 2.33 | 3.50 | 3.92 | 4.33 | 5.00 | 0.83 | 3.50 | 4.33 |
| Luhya | 126 | 2.33 | 2.83 | 3.17 | 3.33 | 4.83 | 0.50 | 3.00 | 3.17 |
| Luo | 96 | 1.67 | 2.83 | 3.17 | 3.83 | 5.00 | 1.00 | 3.00 | 3.50 |
| Masaai | 21 | 1.67 | 2.17 | 3.00 | 3.34 | 4.33 | 1.17 | 2.00 | 3.83 |
| Meru | 38 | 2.50 | 3.17 | 3.42 | 3.87 | 5.00 | 0.70 | 3.17 | 3.83 |
| Mijikenda | 46 | 1.50 | 2.83 | 3.33 | 3.71 | 4.50 | 0.88 | 2.83 | 3.67 |
| Somali | 56 | 2.17 | 2.54 | 3.25 | 4.46 | 5.00 | 1.92 | 2.67 | 4.33 |
| Turkana | 23 | 1.33 | 2.00 | 2.50 | 2.83 | 4.33 | 0.83 | 2.00 | 3.00 |
| Total | 823 | 1.33 | 3.00 | 3.33 | 4.00 | 5.00 | 1.00 | 3.17 | 3.50 |

Table 15. Descriptive statistics for ESE implementation-people score by ethnicity

| Table 16 | . ESE implementar | tion-people by eth | nnicity crosstabulation |
|----------|-------------------|--------------------|-------------------------|
|----------|-------------------|--------------------|-------------------------|

| Count | | Ethnicity To | | | | | | | | | | Total |
|-----------|----------|--------------|--------|-------|-------|-----|--------|------|-----------|--------|---------|-------|
| | Kalenjin | Kamba | Kikuyu | Kisii | Luhya | Luo | Masaai | Meru | Mijikenda | Somali | Turkana | |
| > Median | 53 | 37 | 133 | 41 | 26 | 36 | 5 | 19 | 21 | 24 | 2 | 397 |
| == Median | 64 | 55 | 23 | 11 | 100 | 60 | 16 | 19 | 25 | 32 | 21 | 426 |
| Total | 117 | 92 | 156 | 52 | 126 | 96 | 21 | 38 | 46 | 56 | 23 | 823 |

| Table 17. | ESE im | plementation | people | post hoc | pair-wise | tests |
|-----------|--------|--------------|--------|----------|-----------|-------|
| | | | | | | |

| | Ethnicity | Median | χ^{2} a | df | Asymptotic Significance ^b | Cramer's V |
|--------|-----------|--------|--------------|----|--------------------------------------|------------|
| Kikuyu | - | 4.17 | | | | |
| | Kalenjin | 3.33 | 47.339 | 1 | 0.000 | 0.424 |
| | Kamba | 3.33 | 52.381 | 1 | 0.000 | 0.469 |
| | Mijikenda | 3.33 | 28.610 | 1 | 0.000 | 0.390 |
| | Somali | 3.25 | 36.382 | 1 | 0.000 | 0.426 |
| | Luhya | 3.17 | 115.744 | 1 | 0.000 | 0.648 |
| | Luo | 3.17 | 59.218 | 1 | 0.000 | 0.493 |
| | Masaai | 3.00 | 37.181 | 1 | 0.000 | 0.479 |
| | Turkana | 2.50 | 59.314 | 1 | 0.000 | 0.595 |
| Kisii | - | 3.92 | | | | |
| | Luhya | 3.17 | 50.688 | 1 | 0.000 | 0.546 |

^a Pearson chi-square with continuity correction.

4.2.2.5 ESE Implementation-Financial

Table 18 presents the descriptive statistics for the ESE implementation-financial score for each ethnicity. Table 19 presents a count of the number of subjects scoring above and at, or below, the ESE implementation-financial group median for each ethnicity. A Mood's median test, with a continuity correction, was performed to examine the relationship between ethnicity and ESE implementation-people scores. The relation between these variables was significant, X^2 (10, N = 823) = 144.829, p = .000, Cramer's V = .419, indicating that ethnicity has a large effect on ESE implementation-financial scores. Post hoc analyses were performed using Mood's median test, with the Bonferroni correction. Table 20 presents the pairs of ethnic groups that showed significant differences (p = .000) on the ESE implementation-financial score. Cramer's V ranged from .404 to .589, indicating that the difference in ethnicity between the pairs had a very large effect on ESE implementation-financial scores.

| Ethnicity | Ν | Min | Q1 | Median | Q3 | Max | IRQ | Median 99 | 9.9% CI |
|-----------|-----|------|------|--------|------|------|------|-----------|---------|
| | | | | | | | - | Lower | Upper |
| Kalenjin | 117 | 1.00 | 3.00 | 3.67 | 4.00 | 5.00 | 1.00 | 3.33 | 4.00 |
| Kamba | 92 | 2.00 | 3.67 | 4.00 | 5.00 | 5.00 | 1.33 | 3.67 | 4.33 |
| Kikuyu | 156 | 2.33 | 4.00 | 4.67 | 5.00 | 5.00 | 1.00 | 4.33 | 4.67 |
| Kisii | 52 | 1.00 | 3.33 | 4.00 | 4.67 | 5.00 | 1.34 | 3.33 | 4.67 |
| Luhya | 126 | 2.00 | 3.00 | 3.00 | 3.67 | 5.00 | 0.67 | 3.00 | 3.33 |
| Luo | 96 | 1.00 | 3.00 | 3.00 | 4.00 | 5.00 | 1.00 | 3.00 | 3.67 |
| Masaai | 21 | 1.33 | 2.00 | 2.67 | 3.50 | 4.67 | 1.50 | 1.67 | 3.67 |
| Meru | 38 | 2.67 | 3.00 | 3.67 | 4.33 | 5.00 | 1.33 | 3.00 | 4.33 |
| Mijikenda | 46 | 1.00 | 3.00 | 3.84 | 4.33 | 5.00 | 1.33 | 3.00 | 4.33 |
| Somali | 56 | 1.00 | 2.33 | 3.00 | 4.50 | 5.00 | 2.17 | 2.67 | 4.00 |
| Turkana | 23 | 1.67 | 2.67 | 3.33 | 4.00 | 5.00 | 1.33 | 2.67 | 4.00 |
| Total | 823 | 1.00 | 3.00 | 3.67 | 4.33 | 5.00 | 1.33 | 3.67 | 4.00 |

Table 18. Descriptive statistics for ESE implementation-financial score by ethnicity

| Tuble 19. Lot implementation influence by etimetry erossicoulation | Table 19. | ESE implement | ation-financia | l by ethnic | ity crosstabulation |
|--|-----------|---------------|----------------|-------------|---------------------|
|--|-----------|---------------|----------------|-------------|---------------------|

| Count | | Ethnicity | | | | | | | | | | Total |
|-----------|----------|-----------|--------|-------|-------|-----|--------|------|-----------|--------|---------|-------|
| | Kalenjin | Kamba | Kikuyu | Kisii | Luhya | Luo | Masaai | Meru | Mijikenda | Somali | Turkana | |
| > Median | 45 | 56 | 122 | 33 | 24 | 28 | 3 | 16 | 23 | 18 | 8 | 376 |
| == Median | 72 | 36 | 34 | 19 | 102 | 68 | 18 | 22 | 23 | 38 | 15 | 447 |
| Total | 117 | 92 | 156 | 52 | 126 | 96 | 21 | 38 | 46 | 56 | 23 | 823 |

Table 20. ESE implementation-finance post hoc pair-wise tests

| | Ethnicity | Median | χ^{2} a | df | Asymptotic Significance ^b | Cramer's V |
|--------|-----------|--------|--------------|----|--------------------------------------|------------|
| Kikuyu | - | 4.67 | | | | |
| | Kalenjin | 3.67 | 42.804 | 1 | 0.000 | 0.404 |
| | Luhya | 3.00 | 95.340 | 1 | 0.000 | 0.589 |
| | Luo | 3.00 | 57.299 | 1 | 0.000 | 0.485 |
| | Masaai | 2.67 | 33.432 | 1 | 0.000 | 0.454 |
| | Somali | 3.00 | 36.957 | 1 | 0.000 | 0.429 |
| Luhya | - | 3.00 | | | | |
| | Kamba | 4.00 | 38.256 | 1 | 0.000 | 0.429 |
| | Kisii | 4.00 | 31.347 | 1 | 0.000 | 0.433 |

^a Pearson chi-square with continuity correction.

5. Discussion

Studies continue to validate the positive relationship between entrepreneurship rates and economic growth rates and promotion of entrepreneurship remains one of the tools considered to be effective in alleviating poverty (Jooste, 2014). Governments, researchers, and non-governmental organizations continue to devise policies and strategies that potentially stimulate entrepreneurship rate with these strategies and polices having had mixed results in various societies. This has led researchers to question whether intentions towards entrepreneurship are contingent on culture (McGee et al., 2009). This study aims to contribute to this debate by examining differences in entrepreneurial intentions among various ethnic communities. Differences in ESE were examined both at the total ESE score level as well as at the subscale score level.

The first research question explored whether there were differences in total ESE among male youths in the 11 Kenyan ethnic communities. Descriptive analysis of the data revealed there were differences among the ethnic communities in total ESE with the Kikuyu participants having the highest median score of 3.89, followed by the Kisii with a median score of 3.74, while the Turkana participants had the lowest score of 2.58 on a 5-point Likert-like scale. Maasai participants had a low median score of 2.89 as well.

Mood's median test analysis revealed statistically significant differences in total ESE among the communities. Post hoc analysis portrayed that there were statistically significant differences between the Kikuyu participants and the participants from seven other communities: Kalenjin, Somali, Kamba, Luo, Luhya, Masaai, and Turkana. Differences were also observed between the Kisii and participants from two other communities: the Luhya and the Turkana.

The second research question enquired if there were differences in ESE subscale scores for participants from the 11 ethnic communities. A review of descriptive statistics revealed that four communities, Kikuyu, Kisii, Somali and Meru had the highest similar median score of 3.33 on ESE searching with the Turkana having the lowest score of 2.00 while the Maasai and the Kamba had similar low median scores of 2.33. On ESE planning, the Kikuyu and Kisii had the highest median scores of 3.75 while the Turkana and the Maasai had lowest median scores of 2.50 and 2.75 respectively. The Kikuyu similarly had the highest median score on ESE marshaling of 4.00 followed by the Kisii with a score of 3.85. Two communities, the Maasai and the Turkana, had similar lowest scores of 2.67. The same consistency was observed on ESE implementation-people with the Kikiyu having the highest score of 4.17, followed by the Kisii with a score of 3.92. Only the Turkana had a median score less than 3 with its 2.50 score. On ESE implementation-finance, the Kikuyu had the highest score at 4.67, while the Kamba and the Kisii had similar scores of 4.00. Three communities, the Luhya, Luo, and Somali, had the lowest score of 3.00.

Mood's median test analyses were also used to examine whether observed differences among the communities were significant in the five ESE subscales and outcomes revealed statistically significant differences among the groups in each of the five subscales. Post hoc analysis on the ESE searching sub-scale showed that differences exist between the Kamba and seven other communities: the Kikuyu, Kisii, Meru, Somali, Mijikenda, Luhya, and Luo, and also between the Kikuyu and the Turkana. On ESE planning, statistically significant differences were observed between the Luhya and two communities, the Kikuyu and Kisii, while differences were observed between the Kikuyu and five communities: the Kalenjin, Luhya, Luo, Maasai and Turkana on ESE marshaling as well as between the Kisii and the Luhya. Post hoc analysis on ESE implementation-people revealed differences between the Kikuyu and eight communities: the Kalenjin, Kamba, Mijikenda, Somali, Luhya, Luo, Masaai, and Turkana, and also between the Kisii and the Luhya. Finally, post hoc analysis on ESE implementation-finance exposed differences between the Kikuyu and five communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Luhya and two communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Kikuyu and five communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Kikuyu and five communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Kikuyu and five communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Kikuyu and five communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Kikuyu and five communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Luhya and two communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Luhya and two communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and also between the Luhya and two communities: the Kalenjin, Luhya, Luo, Maasai, and Somali, and

Some of the outcomes of the current study are consistent with Ketter's (2014) findings while others are contradictory. The current study found statistically significant differences in total ESE amoung some communities. This is consistent with Ketter's (2014) findings that differences exist in total ESE among various ethnic communities. Ketter (2014) found statistically significant differences in ESE planning, ESE searching, and in ESE implementation-people, indicating consistency with the current study. Although differences were observed in ESE marshaling and in ESE implementation-finance in Ketter (2014), observed differences were not considered meaningful as the effects sizes were less than 0.1. Urban (2006) found statistically significant differences in ESE implementation-finance between Blacks and Indians in South Africa, indicating concurrence with the current study's findings.

5.1 Implications

Outcomes of this study may have implications in terms of policy strategies needed to promote entrepreneurship in the various Kenyan counties as observed differences call for culture-centric strategies geared towards increasing

the level of confidence in terms of total ESE for some communities while focusing on specific sub-scales in others. For example, the consistently low scores among the Maasai and Turkana participants call for more investment in training members of these ethnic communities in entrepreneurship before providing funding for enterprise establishment. Conversely, the high scores among the Kikuyu and Kisii participants indicates that other supportive mechanisms such as provision of capital may readily promote entrepreneurship in the counties mostly inhabited by these communities. Other measures may include establishment of business incubation centers in communities scoring low on the total ESE as a way of assisting participants from these communities in the venture creation process.

5.2 Conclusion

Entrepreneurial enterprises are suggested as a means of reducing poverty and increasing economic success for less developed countries. An entrepreneurial self-efficacy (ESE) survey of 823 males between 18 and 35 years of age in Kenya found significant differences among ethnic communities in their perceived ability to successfully accomplish tasks previously associated with entrepreneurial success. The results indicated significant differences among various ethnic communities on total ESE, and on individual subscales of ESE sourcing, ESE planning, ESE marshaling, ESE implementation-people, and ESE implementation-finance. The implications are that resources available to promote entrepreneurial training and education should be targeted to ethnic communities based on increasing entrepreneurial self-efficacy in areas of lower perceived abilities.

References

- Ajzen, I. (1991). The theory of planned behavior. Organizational Behavior and Human Decision Processes, 50(2), 179-211. http://dx.doi.org/10.1016/0749-5978(91)90020-T
- Bandura, A. (1986). The explanatory and predictive scope of self-efficacy theory. *Journal of Clinical and Social Psychology*, *4*, 359-373. http://dx.doi.org/10.1521/jscp.1986.4.3.359
- Bosma, N., Wennerkers, S., & Amoros, J. E. (2011). *Global entrepreneurship monitor 2011 extended report: Entrepreneurs and entrepreneurial employees across the globe*. Retrieved from http://www.gemconsortium.org/docs/download/2200
- Box, G. E. P. (1954). Some theorems on quadratic forms applied in the study of analysis of variance problems, I. effect of inequality of variance in the one-way classification. *The Annals of Mathematical Statistics*, 25(2), 290-302. http://dx.doi.org/10.1214/aoms/1177728786
- Brown, M. B., & Forsythe, A. B. (1974). Robust tests for the equality of variances. *Journal of the American Statistical Association*, 69(346), 364-367. http://dx.doi.org/10.2307/2285659
- Chen, C. C., Greene, P. G., & Crick, A. (1998). Does entrepreneurial self-efficacy distinguish entrepreneurs from managers? *Journal of Business Venturing*, *13*(4), 295-316. http://dx.doi.org/10.1016/S0883-9026(97)00029-3
- DeNoble, A., Ehrlich, S., & Singh, G. (2007). Toward the development of a family business self-efficacy scale: A resource-based perspective. *Family Business Review*, 20(2), 127-140. http://dx.doi.org/10.1111/j.1741-6248.2007.00091.x
- Faul, F., Erdfelder, E., Lang, A., & Buchner, A. (2007). G* Power 3: A flexible statistical power analysis program for the social, behavioral, and biomedical sciences. *Behavior Research Methods*, 39(2), 175-195. http://dx.doi.org/10.3758/BF03193146
- Gibson, A. D. (2008). Cultural value differences and women-owned businesses in the United States: A preliminary exploration. *The Journal of Applied Business and Economics*, 8(2), 23-34.
- Hofstede, G. (1981). Culture and organization. International Studies of Management and Organization, 11(4), 15-41.
- Hofstede, G. (1984). *Culture's consequences: International differences in work related values*. Newbury Park, CA: Sage Publications.
- Hofstede, G. (1987). Cultural dimensions in management and planning. In H. Summer, & Webber (Eds.), *Organizational behavior and the practice of management* (5th ed., pp. 401-422). Glenview, IL: Scott, Foresman, and Co.
- Hofstede, G., Hofstede, G. J., Minkov, M., & Vinken, H. (2008). *Values survey module 2008 manual*. Retrieved from http://www.geerthofstede.nl/vsm-08
- House, R. J., Hanges, P. J., Javidan, M., Dorfman, P. W., & Gupta, V. (2004). Culture, leadership and

organizations: The GLOBE study of 62 societies. Newbury Park, CA: Sage Publications Inc.

Jooste, G. (2014). Make an impact. Accountancy SA, 2.

- Jung, D. I., Ehrlich, S. B., Alex, F., & DeNoble, A. F. (2001). Entrepreneurial self-efficacy and its relationship to entrepreneurial action: A comparative study between the US and Korea. *Management International*, *6*, 41-53.
- Ketter, C. (2014). An exploration of the influence of cultural dimensions on entrepreneurial self-efficacy of young males from six selected ethnic communities in Kenya (Doctoral dissertation).
- Kumar, R., & Uzkurt, C. (2011). Investigating the effects of self efficacy on innovativeness and the moderating impact of cultural dimensions. *Journal of International Business and Cultural Studies*, 4, 1-15.
- McGee, J., Peterson, E. M., Mueller, S. L., & Sequeira, J. M. (2009). Entrepreneurial self-efficacy: Refining the measure. *Entrepreneurship Theory and Practice*, 33(4), 965-988. http://dx.doi.org/10.1111/j.1540-6520.2009.00304.x
- Mungai, E. N., & Ogot, M. (2012). Gender, culture and entrepreneurship in Kenya. International Business Research, 5(5), 175-183. http://dx.doi.org/10.5539/ibr.v5n5p175
- Nafukho, F. M., & Muyia, H. A. (2010). Entrepreneurship and socioeconomic development in Africa: A reality or myth? Journal of European Industrial Training, 34(2), 96-109. http://dx.doi.org/10.1108/03090591011023961
- Nordstokke, D. W., & Zumbo, B. D. (2010). A new nonparametric Levene test for equal variances. *Psicologica*, 31(2), 401-430. Retrieved from http://www.uv.es/psicologica/articulos2.10/11NORDSTOKKE.pdf
- Ramsey, P. H., & Ramsey, P. P. (2009). Power and Type I errors for pairwise comparisons of means in the unequal variances case. *British Journal of Mathematical and Statistical Psychology*, 62(2), 263-281. http://dx.doi.org/10.1348/000711008X291542
- Razali, N. M., & Wah, Y. B. (2011). Power comparisons of Shapiro-Wilk, Kolmogorov-Smirov, Lilliefors and Anderson-Darling tests. *Journal of Statistical Modeling and Analytics*, 2(1), 21-33. Retrieved from http://instatmy.org.my/downloads/e-jurnal%202/3.pdf
- Shaffer, J. P. (1995). Multiple hypothesis testing. *Annual Review of Psychology*, 46, 561-584. http://dx.doi.org/10.1146/annurev.psych.46.1.561
- Shapiro, S. S., & Wilk, M. B. (1965). An analysis of variance test for normality (complete samples). *Biometrika*, 52(3/4), 591-611. http://dx.doi.org/10.1093/biomet/52.3-4.591
- Tabachnick, B. G., & Fidell, L. S. (2007). Using multivariate statistics (5th ed.). Boston, MA: Pearson Publishing.
- Tracy, R. L., & Doane, D. P. (2005). Using the studentized range to assess kurtosis. *Journal of Applied Statistics*, 32(3), 271-280. http://dx.doi.org/10.1080/02664760500054632
- Urban, B. (2006). Entrepreneurial self-efficacy in a multicultural society: Measures and ethnic differences. SA *Journal of Industrial Psychology*, 32(1), 2-10. http://dx.doi.org/10.4102/sajip.v32i1.221
- Van Praag, C. M., &Versloot, P. H. (2007). What is the value of entrepreneurship? A review of recent research. *Small Business Economics*, 29(4), 351-382. http://dx.doi.org/10.1007/s11187-007-9074-x
- Wennberg, K., Pathak, S., & Autio, E. (2013). How culture molds the effects of self-efficacy and fear of failure on entrepreneurship. *Entrepreneurship and Regional Development*, 25(9-10), 756-780. http://dx.doi.org/10.1080/08985626.2013.862975
- Wilcox, R. R., Charlin, V. L., & Thompson, K. L. (1986). New Monte Carlo results on the robustness of the ANOVA F, W, and F^{*} statistics. *Journal of Statistical Computation and Simulation*, 15(4), 933-943. http://dx.doi.org/10.1080/03610918608812553

Copyrights

Copyright for this article is retained by the author(s), with first publication rights granted to the journal.

This is an open-access article distributed under the terms and conditions of the Creative Commons Attribution license (http://creativecommons.org/licenses/by/3.0/).