Establishing student perceptions of an entrepreneur using word associations

Authors:

Jasmine E. Goliath¹ Shelley M. Farrington¹ Shelley B. Saunders¹

Affiliations:

¹Department of Business Management, Nelson Mandela Metropolitan University, South Africa

Correspondence to:

Jasmine Goliath

Email:

jasmine.goliath2@nmmu. ac.za

Postal address:

PO Box 77 000, Port Elizabeth 6031, South Africa

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Orientation: To understand entrepreneurial behaviour, it is important to understand the image or perceptions associated with entrepreneurship.

Research purpose: To identify the image or perceptions that students have of an entrepreneur.

Motivation for study: By establishing the image or perceptions that students have of an entrepreneur, insights could be provided into the factors influencing them to become entrepreneurs or not.

Research approach, design and method: A qualitative projective technique, namely continuous word association, was adopted. Convenience sampling was used and 163 students participated. The words generated were coded into categories by searching for themes and words of a similar nature. The total words generated, the frequencies of recurring words, the number of different types of words, first words recalled and the average number of words recalled were established.

Main findings: The students participating in the study have a good understanding of the general nature of an entrepreneur and entrepreneurship; an entrepreneur is perceived as someone who is a creative and innovative risk-taker, who owns a business involved in the selling of goods and services.

Practical/managerial implications: Future entrepreneurs need to be aware that, in addition to several innate attributes, successful entrepreneurs have learned skills and competencies. It is also important that educators of entrepreneurship create a realistic image of what it is like to be an entrepreneur, and that both positive and negative aspects are highlighted.

Contribution/value-add: By identifying the image or perceptions of an entrepreneur held by students, the marketing of entrepreneurship as a desirable career choice can be enhanced.

Introduction and background to this study

Entrepreneurship as a source of economic growth and competitiveness, as well as job creation and the advancement of social interests, is well documented (Dabic *et al.* 2012:317; Davey, Plewa & Struwig 2011:335; Nagy *et al.* 2010:19; Morris, Pitt & Berthon 1996:59). Despite these important contributions to the economies of countries, a shortage of entrepreneurial activity exists across borders (Xavier *et al.* 2012:7) and specifically in developing countries such as South Africa (Simrie *et al.* 2011:4). The Global Entrepreneurship Monitor studies undertaken over the last 10 years confirm that South Africa has a lower-than-expected entrepreneurial activity rate (Simrie *et al.* 2011:19). In addition, few South Africans show an intention to start their own business despite a large percentage perceiving entrepreneurship as a good career choice (Xavier *et al.* 2012:56).

Although various studies (Friedman & Aziz 2012; Simrie et al. 2011; Xavier et al. 2012) have been undertaken to determine the reasons for the low levels of entrepreneurial activity in South Africa, seeking answers to what drives entrepreneurship remains one of the most important issues in management research (Drost 2010:28). Several authors (Brown, Beale & White-Johnson 2011; Cañizares & García 2010; Davey et al. 2011; Gelderen et al. 2008; Kautonen, Van Gelderen & Tornikoski 2013; Paço et al. 2011) have made use of intentions-based models in attempting to explain why some people become entrepreneurs and others do not. The theory of planned behaviour (TPB) (Ajzen 1991), one of the most commonly used models (Dabic et al. 2012; Davey et al. 2011; Guerrero et al. 2010; Paço et al. 2011), proposes that the greater the intention to engage in a particular behaviour, the more likely will be the performance of that behaviour (Kautonen et al. 2013:698). According to the TPB, intentions are predicted by three things: attitude towards a behaviour, subjective norms regarding the behaviour and the perceived behavioural control over the behaviour (Dabic et al. 2012:319).

Several studies (Gray, Farrington & Sharp 2010; Lüthje & Franke 2003; Pihie 2009) have shown that attitude towards a behaviour has the strongest influence on entrepreneurial intentions. 'Attitude

towards a behaviour' refers to how positive a person feels about the behaviour, and depends on expectations and beliefs about the personal impact of outcomes resulting from the behaviour. The more positive the attitude of an individual towards the behaviour, the more likely it is that the behaviour in question will be performed (Bergmann 2002; Kakkonen 2010). According to Urban, Botha and Urban (2010:115), one's attitude is determined by one's beliefs or perceptions about a particular behaviour, and Zaitadol (2009:340) defines attitude defines attitude towards entrepreneurship as a person's perception of being an entrepreneur (Kolvereid 1996; Kolvereid & Isaksen 2006).

Image as a measure of perception has been used in numerous fields of study, specifically in the field of marketing with reference to brand image (Guerrero *et al.* 2010; Prayag 2010; Roininen, Arvola & Lahteenmaaki 2006; Sester *et al.* 2013; Simms & Trott 2006). According to Vahie and Paswan (2006:70), an image is the sum of associations that are positioned in an individual's mind with regard to a certain concept and it is these associations that lead to an individual's overall perceptions of that given concept. These associations are formulated through cognitive reasoning and are based on what the individual knows about the functional attributes of the concept, as well as how the individual feels based on the psychological attributes of the concept (Pritchard & Frank 2010:1018).

Free association and word association tests are popular techniques used when measuring image (Prayag 2010; Simms & Trott 2006). Word association techniques provide a true reflection of the internal thoughts and feelings of the research subject, owing to the use of a vague, ambiguous and unstructured stimulus (Donoghue 2000:47; Guerrero et al. 2010:226). Tausczik and Pennebaker (2009:30) contend that words reveal information pertaining to people's priorities, their intentions, where their attention is and what they are trying to avoid. This suggests that words could be used to determine the image or perceptions that individuals have of an entrepreneur, as deeper meanings and underlying associations can be revealed. It can thus be argued that techniques similar to those used in marketing to determine the image or perception of a subject can be used in the field of entrepreneurship to determine the position that an entrepreneur occupies in the mind of potential and current entrepreneurs. To better understand entrepreneurial behaviour it is important to understand the image associated with entrepreneurship (Sester et al. 2013:476).

Studies show that the image of entrepreneurship amongst students in the European Union (Jakubczak & Rakowska 2013:1003) is not positive; as such, more negative than positive associations are related to being an entrepreneur. The extent to which the image or perceptions associated with an entrepreneur result in positive or negative associations amongst South African students is unknown. Since image measures the perception of a given concept, and perception in turn influences the attitude towards behaviour, it can be argued that if the image of an entrepreneur can be determined, then one can establish whether that image,

held in the minds of stakeholders, positively or negatively influences their intentions. By identifying the image or perceptions that individuals have of an entrepreneur, their underlying feelings and attitudes towards such persons, and the career these persons have chosen, could possibly be unveiled. In doing this, possible explanations can be sought for the lack of entrepreneurial intention and activity in South Africa. Once the image associated with an entrepreneur has been established, efforts can be made to overcome negative associations, and positive associations can be used to encourage individuals in relevant target groups to consider becoming an entrepreneur. By identifying the image or perceptions of an entrepreneur held by students, the marketing of entrepreneurship as a desirable career choice can be enhanced.

Purpose and primary objective

The purpose of this study is to determine the image or perception of an entrepreneur in the eyes of potential entrepreneurs (students). In order to establish this image or perception the concept of 'entrepreneur' was subjected to a word association test amongst students. Through word associations, a more realistic and detailed image or perception of an entrepreneur can be revealed (Prayag 2010:463).

Against the background given above, the primary objective of this study was to identify the image or perception that potential entrepreneurs (students) have of an entrepreneur. These perceptions were established by means of a qualitative projective technique, namely continuous word association tests. According to Stephan *et al.* (1987:182), if entrepreneurs are positively perceived by people, the likelihood of those individuals becoming entrepreneurs increases. By establishing the image or perceptions that individuals have of an entrepreneur it is hoped that insights will be provided into the factors influencing individuals to become entrepreneurs.

An entrepreneur as described in the literature

In the general literature on entrepreneurship, the most commonly discussed topics are the nature of entrepreneurship, the attributes (personality traits, characteristics and skills) associated with an entrepreneur, the various push and pull factors and the various rewards and drawbacks of the career. It is these aspects of entrepreneurship that students will most likely have been exposed to, and these aspects that will have influenced their image or perceptions of an entrepreneur

Nature of entrepreneurship

The term 'entrepreneurship' means different things to different people. According to Bennett (2006:167), an 'entrepreneur' broadly refers to an individual who initiates and manages new business ventures by bringing together the factors of production. Murphy, Liao and Welsch (2006:13) add that entrepreneurship involves the discovery, evaluation and utilisation of future goods and services. Despite there being no consensus on how to specifically define the nature

of entrepreneurship, certain distinctions differentiate an entrepreneur from a business manager or small business owner (Bennett 2006:167). Small business owners or managers tend to be driven by the resources they control, and the extent to which they control these resources dictates their behaviour and intentions (Morris *et al.* 1996:61). Small businesses show a preference for low risk and low return, as the venture exists only to support the lifestyle of the small business owner (Kao, Kao & Kao 2002:18). Alternatively, an entrepreneur is driven by opportunity and change, is dynamic and strategy orientated, whilst seeking growth and business value appreciation (Morris *et al.* 1996:61).

Entrepreneurial attributes

In order to create a psychological profile of potential entrepreneurs, various studies (Davey et al. 2011; Elmuti, Khoury & Abdul-Rahim 2011; Nagy et al. 2010) have attempted to identify attributes and skills prevalent amongst successful entrepreneurs. According to Alstete (2008:585), when describing the nature of an entrepreneur, motivational aspects, personality characteristics and general thematic attitudes, habits and behaviours need to be considered. Bennett (2006:168) suggests that the aspirations of entrepreneurs often differ from those of non-entrepreneurs, and certain attributes or characteristics are more prevalent amongst entrepreneurs than in others, including small business owners or managers. Bennett (2006:168) and Alstete (2008:585) describe these distinguishing attributes as being able to take initiative, being willing to take risks, having selfconfidence, perseverance, resourcefulness, independence, persuasiveness and a tolerance for uncertainty and ambiguity, as well as being a visionary and a charismatic leader. Cañizares and García (2010:786) add that other prevalent entrepreneurial attributes are originality and innovation, moderate risk aversion, acceptance of individual responsibility, long-term planning, the need for achievement, self-confidence, optimism, creativity and autonomy. Alstete (2008:586) contends that when combinations of these attributes are present in an individual, the nature of entrepreneurship may appeal to that individual, which in turn motivates them to become an entrepreneur.

Push and pull factors

When discerning between factors that motivate entrepreneurship as a career choice, reference is made to 'push and pull' factors. Dawson (2012:698) broadly defines these factors as positive and negative motivations to becoming an entrepreneur. According to Kirkwood (2009:346), push factors are personal or external factors with negative associations that leave individuals with entrepreneurship as one of few career choices. Alternatively, pull factors are attributes and characteristics of entrepreneurship that appeal to an individual, or positive associations that influences them to adopt entrepreneurship as a career choice (Kirkwood 2009:346). Orhan and Scott (2001:235) identify push factors such as dissatisfaction with previous employment owing to a lack of stimulation or prospective career development.

Necessity caused by retrenchment or dismissal and having difficulty in finding other employment is also considered a push factor. Kirkwood (2009:348) notes that the desire for independence and a strong need for achievement that cannot be fulfilled in a current salaried position are powerful pull factors. Orhan and Scott (2001:235) identify a desire to transform an opportunity or social need into a marketable idea as an important pull factor. Dawson (2012:699) and Kirkwood (2009:348) consider monetary or financial reasons to be one of the biggest drivers of entrepreneurial intention, seeing that it can be considered both a necessity and a desire.

Rewards and drawbacks of entrepreneurship

Different people seek different types of fulfilment from entrepreneurship or a specific combination of rewards that will satisfy their intrinsic needs. Most entrepreneurs regard entrepreneurship as offering several rewards (Alstete 2008:585). These rewards or benefits commonly include the ability to make one's own money, ensuring financial security, being independent, leaving a difficult employment situation and flexibility of personal and family time (Alstete 2008:585). In addition to these advantages, Bosch, Tait and Venter (2011:108) add that the opportunity to make a difference is often considered a benefit of entrepreneurship, especially in South Africa which is characterised by unemployment and poverty. Reaching one's full potential through entrepreneurship is another benefit which would otherwise be difficult in a work environment that is unexciting, unchallenging and frustrating (Bosch et al. 2011:108).

Despite the rewards or benefits of entrepreneurship, numerous disadvantages and unattractive features exist. Alstete (2008:590) identifies several common drawbacks of entrepreneurship, the most prevalent being stress and the long hours that have to be endured considering that the entrepreneur is solely accountable and responsible for all aspects of the business. Stress and commitment of time are adverse characteristics that such a career often has on an entrepreneur's family. Entrepreneurs often risk their personal and business assets and resources to supplement their business ventures, and no guarantee exists that the business will be successful. Thus Bosch et al. (2011:109) note that one of the biggest drawbacks of entrepreneurship is the exposure to business and financial risks. Other drawbacks noted by Alstete (2008:590) include dealing with rapid industry change, hiring appropriately qualified and competent employees, the lack of healthcare and retirement benefits that were previously afforded as an employee and the occasional isolation and loneliness faced by entrepreneurs.

Research methodology

A qualitative research paradigm was adopted for this study. The concept of 'entrepreneur' is well established and defined in the literature, but how the concept is interpreted or understood in practice is not. A qualitative research approach offers a suitable tool to assess the mental representations of an entrepreneur as held by individuals, thereby revealing how they perceive the concept (Roininen *et al.* 2006:20)

Various methods exist by which to analyse qualitative data. Given the purpose and objective of this study, a projective technique was considered most appropriate. Projective techniques involve a form of indirect questioning which results in a better reflection of how the subject (concept) is perceived by a subject (participant). Projective techniques are used to overcome a subject's unwillingness to reveal their true feelings and perceptions, and to unlock hidden or suppressed meanings (Cooper & Schindler 2006:205). More specifically, the projective technique called a word association test was used. In word association tests participants are given a stimulus word or picture and are then asked to write down a certain number of words that come to mind. The aim of word association tests is the retrieving of associations from the participant's associative or semantic memory (Koll, Von Wallpach & Kreuzer 2010:588). The continuous word association technique is adopted in this study. This technique involves presenting a stimulus word once to participants, who are required to give as many responses as they can in a specified time. Continuous word association test make it possible to compare the first and the last words of associations, repetition of words and pathways of associations (Kostova & Radoynovska 2008:211). A continuous word association test allows for unrestricted responses and ensures that because of the time constraint imposed, the research subjects keep on track and continue to give responses to the original stimulus word (Nielsen & Ingwersen 1999:18).

Sampling and data collection

Non-business students from the Nelson Mandela Metropolitan University (NMMU) enrolled for a module in entrepreneurship were requested to participate in the word association test. The test was administered during the first lecture of an entrepreneurship module. According to Stephan *et al.* (1987:182), investigating the image that students have of an entrepreneur is a viable research avenue because students have a high potential to become successful entrepreneurs. As such, convenience sampling was adopted. This sampling method was adopted because of the accessibility and availability of the sample. In addition, owing to time constraints, convenience sampling was used because it is quick, convenient and inexpensive (Hair *et al.* 2003:217; Struwig & Stead 2001:111).

In the continuous word association test, participants were asked to write down the words or phrases that came to mind when thinking of the term 'entrepreneur', which was the stimulus word. Participants were asked to recall as many words as possible within a 10- minute period. They were also asked to provide demographic details pertaining to their age, gender, ethnicity, qualification for which they were enrolled and whether they were related to an entrepreneur.

Reliability and validity (rigour or trustworthiness)

According to Cremer et al. (2010:190), consideration needs to be taken when classifying the responses received

from participants because of the researcher's subjective interpretation of the responses. To ensure the reliability of the data collected, Donoghue (2000:50) suggests coder or interpreter reliability as one of the best methods to ensure reliability in projective techniques. This assurance of reliability entails two or more equally competent researchers interpreting the data. If the interpretations differ significantly, then the categorising needs to be questioned. In the present study, three researchers, who are competent in the field of entrepreneurship, analysed and interpreted the words retrieved from the participants. Where interpretations differed significantly, the word categorisation was questioned through logical argumentation to establish consensus.

Donoghue (2000:50) defines 'validity' as the degree to which a particular research instrument measures what it is intended to measure. In terms of projective techniques, specifically when using word association techniques, 'validity' refers to interpreting the data the way the participant understood or meant it. Nielsen and Ingwersen (1999:19) refer to the process of categorising and disregarding irrelevant words as 'interactive activation'. As mentioned with reliability, Donoghue (2000:50) recommends that to ensure the validity of the data, the interpreters need to be skilled, so as to categorise and interpret the responses. As mentioned above, three competent researchers were involved in the analysis and interpretation of the data, and the categorisation process was guided by the entrepreneurship literature.

Coding framework and analyses

Gibson and Brown (2009:178) describe 'coding' as the process of applying categories to sections of data and collating the similarities and relationships between those categories. The search for themes and codes was facilitated and guided by an in-depth investigation of the entrepreneurship literature. In studies on brand image, the components of image are considered to be tri-structured in nature, consisting of cognitive (what the individual knows), affective (how the individual feels) and holistic (overall symbolism, combination of affective and cognitive) evaluations (Baglou & Mccleary 1999:870; Prayag 2010:473). However, holistic evaluations were subcategorised under a general category due to the low frequency of holistic terms relative to the other categories. The words generated by the participants in this study were broadly coded according to these categories. The words generated were then further subcategorised by searching for themes within the broad categories to provide more salient and accurate interpretations. In each subcategory synonyms and similar words were grouped together. The categorisation process occurred over a period of time, during which the various words generated were grouped according to recurring themes. Three researchers were involved in the categorisation process and consensus was reached through logical argumentation. When analysing the data, the total words generated, the frequencies of recurring words, the number of different types of words, first words recalled and the average number of words recalled were established.

Results

Profile of participants

The participants in this study were students studying social sciences at NMMU. In total 163 students participated in the word association test. Most (44.10%) of the students were studying towards either a BA Psychology degree or a Bachelor of Human Movement Science degree (22.09%). The majority of participants were female (66.87%), with most being White students (42.33%). Black (38.04%), Mixed race (12.88%) and Asian (1.84%) students made up the rest of the sample. Of the 163 students who participated, 55.83% indicated that they were related to an entrepreneur.

Word associations with 'entrepreneur'

From the word association test, a total of 1417 words were generated by the 163 participants in this study, an average of 8.69 words per participant. As per the coding framework the words generated were categorised into three broad categories: cognitive, affective or general in nature (see Table 1). The majority (61.61%) of words generated were of a cognitive nature, being based on the participants' knowledge of the term 'entrepreneur'. Only 24.91% of the words were categorised as general association and 13.61% as affective associations. General associations are terms that are neither cognitive nor affective in nature and include holistic, operational and unrelated words. Affective associations represent emotional and psychological feelings and motives towards the stimulus word 'entrepreneur'.

Cognitive associations (61.61%) were further categorised into three subcategories, *synonyms*, *attributes* and *skills and competencies*. Synonyms refer to words that could replace or are similar in meaning to the stimulus word. Words categorised as attributes related to personality or character traits of an entrepreneur, whilst skills and competencies represented learned abilities associated with an entrepreneur. Words relating to the attributes (81.67%) possessed by an entrepreneur were the most recalled cognitive evaluations, followed by synonyms (12.94%) and skills and competencies (5.38%). Affective associations (13.61%) were subcategorised as *positive* or *negative*; 86.39% of the words generated in this category were positive and 13.61% were negative.

General associations (24.91%) were subcategorised as *holistic*, *operational* or *unrelated* words. Holistic words were those that represented an overall, global or symbolic impression of the stimulus word. Of the general associations, 58.36% of the words generated were in the holistic subcategory. The subcategory operational included words describing the functional activities or processes involved in running a business. In the general category, 39.94% of the words generated were subcategorised as operational. A category for unrelated terms was also created for words where a direct relationship could not be established in the context of the present study. Only 1.70% of the words generated fell into this subcategory.

From Table 1 it can be seen that the number of different words (D) in each category and subcategory varied. The participants in this study associated entrepreneurs with 56 different attributes. Only nine different skills and competencies were identified and more positive (19) than negative words (13) were associated with an entrepreneur. Only four different words could not be directly related to entrepreneurship.

The various words generated in the broad and subcategories described in Table 1 are elaborated on in the paragraphs below. From Table 2, it can be seen that in the cognitive category, the most frequently recalled synonyms were business founder (33.63%), business-owning person (33.63%), innovator (11.50%), self-employed (9.73%), facilitator (4.42%) and trader (2.65%). In the attributes subcategory the most frequently recalled words were risk-taker (11.08%), creative (8.84%), innovative and original (7.99%), profit orientated (6.17%), goal and achievement orientated (5.89%), opportunistic (5.33%), leader (4.91%) and hardworking (4.35%). In the skills and competencies subcategory the most frequently occurring words were management skills (21.28%), knowledgeable (19.15%), communication and negotiation skills (17.02%), sales and retail skills (10.64%), time management skills (10.64%), financial (8.15%) and business (6.38%) knowledge, educated (4.26%) and life skills (2.13%).

In the affective category, the following positive associations were most frequently mentioned: *makes money* (26.67%), *own boss* (16.36%), *freedom and independence* (12.12%), *job creator* (11.52%), *self-sustaining* (7.88%), *wealth* (6.06%) and *success* (4.24%). The most frequently occurring negative associations were *stressful* (19.23%), *working long hours* (15.38%), *owing money*

TABLE 1: Word association categories and sub-categories (n = 1417).

Categories	Sub-categories Sub-categories								
	Synonyms	Attributes	Skills and competencies	Positive	Negative	Holistic	Operational	Unrelated	Total
Cognitive	12.94	81.67	5.38	-	-	-	-	-	61.61 (%)
	113	713	47	-	-	-		-	873 (N)
	7	56	9	-	-	-	-	-	72 (<i>D</i>)
Affective	-	-	-	86.39	13.61	-	-	-	13.48(%)
	-	-	-	165	26	-	-	-	191 (N)
	-	-	-	19	13	-	-	-	32 (<i>D</i>)
General	-	-	-	-	-	58.36	39.94	1.70	24.91 (%)
	-	-	-	-	-	206	141	6	353 (N)
	-	-	-	-	-	13	16	4	33 (D)

^{%,} category percentage of total words generated; N, Total number of words in category/subcategory; D, Number of different words.



TABLE 2: Classification of the words associated with the stimulus word 'entrepreneur'.

Categories	Sub-categories	Description
Cognitive 61.61%	Synonyms 12.94%	Business founder (33.63%); business-owning person (31.86%); innovator (11.50%); self-employed (9.73%); facilitator (4.42%); trader (2.65%).
	Attributes 81.67%	Risk-taker (11.08%); creative (8.84%); innovative and original (7.99%); profit orientated (6.17%); goal and achievement orientated (5.89%); opportunistic (5.33%); leader (4.91%); hard working (4.35%); organiser (3.65%); motivated (3.51%); visionary (2.66%); committed and dedicated (2.38%); self-confident (2.38%); ambitious (2.38%); networker (2.10%); intelligent and smart thinkers (1.96%); business orientated (1.82%); responsible and accountable (1.68%); flexible (1.54%); determined (1.54%); initiative (1.26%); inspiring (1.26%); passionate (0.98%); courageous (0.84%); optimistic (0.84%); persistent (0.84%); †other (10.10%).
	Skills and competencies 5.38%	Management skills (21.28%); knowledgeable (19.15%); communication and negotiation (17.02%); sales and retail (10.64%); time management (10.64%); financial knowledge (8.51%); business knowledge (6.38%); educated (4.26%); life skills (2.13%).
Affective 13.48%	Positive 86.39%	Makes money (26.67%); own boss (16.36%); freedom and independence (12.12%); job creator (11.52%); self-sustaining (7.88%); wealth (6.06%); success (4.24%); *other (15.15%).
	Negative 13.61%	Stressful (19.23%); work long hours (15.38%); owe money (11.54%); crime (7.69%); loss (7.69%); makes ends meet (7.69%); cunning (7.69%); exploitation (3.85%); unhealthy (3.85%); drop out (3.85%); sacrifice (3.85%); ambiguous (3.85%).
General 24.91%	Holistic 58.36%	Business (33.96%); macro environment (17.48%); financing (15.53%); managerial position (9.71%); market environment (6.80%); labour (4.37%); work (3.40%); physical facilities (2.91%); individual (2.91%); role models (1.46%); luck (0.49%); change (0.49%); business studies (0.49%).
	Operational 39.94%	Selling of goods and services (41.13%); marketing (15.60%); planning and strategy (10.64%); accounting (7.80%); production (7.80%); meeting and schedule (3.55%); *other (13.48%).
	Unrelated 1.70%	Stakeholders (50.00%); small (16.67%); expectations (16.67%); thought (16.67%).

^{†,} Words occurring fewer than five times have been grouped as 'other'. A complete list of words generated can be requested from the authors.

(11.54%), crime (7.69%), exploitation (3.85%), unhealthy (3.85%), drop out (3.85%), sacrifice (3.85%) and ambiguous (3.85%).

The most frequently occurring words in the holistic subcategory, which forms part of the general category, were business (33.96%), macro environment (17.48%), financing (15.53%), managerial position (9.71%), market environment (6.80%) and labour (4.37%). The most frequently occurring operational words were goods and services (41.13%), marketing (15.60%), planning and strategy (10.64%), accounting (7.80%), production (7.80%) and meetings and schedules (3.55%). Words and the frequencies with which they occurred that had no direct relationship (unrelated) to the stimulus word 'entrepreneur' included stakeholders (50.00%), small (16.67%), expectations (16.67%) and thought (16.67%).

From Table 3 it can be seen that the word business was the word generated first, the most times (holistic; 29 times); this was followed by the words business owning person (synonyms; 18 times) and risk-taker (attributes; 15 times). This implies that for 38% of the participants these were the first words that came to mind when confronted with the word 'entrepreneur'. Regarding the words generated second, business (holistic; 13 times), makes money (positive; 13 times) and creative (attributes; 12 times) were mentioned most frequently. The words generated in the third position that occurred most frequently were risk-taker (attributes; 13 times) profit orientated (attributes; 9 times) and innovative and original (attributes; 9 times).

The most frequently recurring words are summarised in Table 4. The first, third and fifth words occurring most frequently relate to the attributes possessed by an entrepreneur. These words were risk-taker (79 times), creative (63 times) and innovative and original (57 times). The second and fourth most frequently occurring words were business (70 times) and selling of goods and services (58 times). The sixth and seventh most occurring words were profit orientated (44 times) and makes money (44 times).

TABLE 3: Positioning of words.

Word position	Word	Sub-category	N
First	Business	Holistic	29
	Business-owning person	Synonyms	18
	Risk-taker	Attributes	15
Second	Business	Holistic	13
	Makes money	Positive	13
	Creative	Attributes	12
Third	Risk-taker	Attributes	13
	Profit orientated	Attributes	9
	Innovative and original	Attributes	9

TABLE 4: Most frequently recurring words (n = 1417).

Word	Category	Subcategory	N
Risk-taker	Cognitive	Attributes	79
Business	General	Holistic	70
Creative	Cognitive	Attributes	63
Selling of goods and services	General	Operational	58
Innovative and original	Cognitive	Attributes	57
Profit orientated	Cognitive	Attributes	44
Makes money	Affective	Positive	44
Goal and achievement orientated	Cognitive	Attributes	42
Business founder	Cognitive	Synonyms	38
Opportunistic	Cognitive	Attributes	38
Business-owning person	Cognitive	Synonyms	36
Macro environment	General	Holistic	36
Leader	Cognitive	Attributes	35
Financing	General	Holistic	32
Hard working	Cognitive	Attributes	31
Own boss	Affective	Positive	27
Organiser	Cognitive	Attributes	26
Motivated	Cognitive	Attributes	25
Marketing	General	Operational	22
Freedom and independence	Affective	Positive	20
Managerial position	General	Holistic	20
Visionary	Cognitive	Attributes	19
Job creator	Affective	Positive	19

Discussion of findings

The primary objective of this study was to identify the image or perceptions that potential entrepreneurs (students) had of the concept of 'entrepreneur'. These perceptions were established by means of continuous word association tests.

The findings show that the words (1417) generated by the 163 participants were of either a cognitive (61.61%), general (24.91%) or affective (13.48%) nature. The cognitive category referred to words concerning what the individual knows, whereas the affective category words referred to how the individual feels. Given that the participants in this study were students, having no actual experience of being entrepreneurs, it comes as no surprise that the majority of words generated were those relating to what they know about an entrepreneur versus how they feel about one. The great majority of words generated related to the management or entrepreneurship literature. This implies that the participants in this study had had prior exposure to entrepreneurship and had some understanding of what the field entailed.

The great majority of the words generated in the cognitive category related to the attributes possessed by an entrepreneur, whereas only a small percentage related to the learned skills and competencies possessed by these people. This implies that the participants in this study saw an entrepreneur as a person with innate attributes more than a person with learned abilities. Based on this finding it is possible to suggest that students who perceive themselves as lacking these attributes perceive that they lack the ability to become an entrepreneur. Furthermore, the participants in this study did not associate learned skills and competencies with being an entrepreneur.

Although only a few words generated fell under the affective category, it is interesting to note that the great majority of these words were positive in nature. This finding implies that the participants in this study were more positive than negative towards entrepreneurship. Interestingly, only 27% of participants cited an entrepreneur as a person who makes money. Under the general association category the majority of words related to an overall, global or symbolic impression (holistic) of entrepreneurship or to the functional activities and processes (operational) involved in entrepreneurship. Very few of the words generated in this category were completely unrelated to entrepreneurship. This implies that the students participating in this study did have a broad general understanding of what entrepreneurship entails. This is supported by the fact that the words business and business owning person were cited first most frequently, and that 43% and 22% of the students cited these words.

The findings of this study show that the words occurring most frequently related to the attributes possessed by an entrepreneur. Fifty-six different attributes were cited, the most often being *risk-taker*, *creative* and *innovative and* *original*. Nearly half of the participants (48.5%) considered an entrepreneur to be a risk-taker. Furthermore, 71% considered an entrepreneur to be someone who is *creative* and *innovative* and *original*. It should be noted that many of the attributes cited (e.g. trusting, patient and serious) are not specifically associated with an entrepreneur, as in the entrepreneurship literature.

One can conclude that the students participating in this study had a good understanding of the general nature of an entrepreneur and entrepreneurship. An entrepreneur was perceived by them to be a person who is a creative and innovative risk-taker, and who owns a business involved in the selling of goods and services.

Implications

This study has implications for both educators of entrepreneurs and future entrepreneurs. Although many attributes associated with being an entrepreneur are innate, some attributes can be developed over time. To be an entrepreneur it is not necessary to possess all the attributes associated with successful entrepreneurs, or to possess all the attributes cited by the participants in this study. It is the responsibility of educators to contribute to the development of these attributes and to inform students accordingly. Future entrepreneurs also need to consider that in addition to several attributes most successful entrepreneurs have learned skills and competencies. More positive than negative associations with entrepreneurship were reported in this study. It is important that educators of entrepreneurship create a realistic image of what it is like to be an entrepreneur, but also that positive associations are highlighted. Although being a risk-taker, and being creative, innovative and original are attributes associated with being a successful entrepreneur, it is the responsibility of educators to inform students that although these attributes are important, they are not vital for entrepreneurial success. Furthermore, students need to understand that these attributes can be nurtured where willingness is present, or partnerships that bring these attributes can be entered into.

Limitations and future research

Two limitations to this study should be highlighted. Firstly, convenience sampling was used and participants were from NMMU and were students of social sciences only. The findings can thus not be generalised to the entire student population. Secondly, although three researchers guided by the literature analysed and interpreted the words generated by the word association tests, interpretations were subjective and an element of compromise was present when categorising the various words. Several opportunities exist for future research. The students participating in this study were in their first lecture of an entrepreneurship module. It would be interesting to establish whether the results of a word association test done during the last lecture of the module differed significantly from those done during

the first lecture. In addition, comparisons between words generated by students and entrepreneurs, as well as between participants from different demographic backgrounds, could reveal interesting results.

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Competing interests

The authors declare that they have no financial or personal relationship(s) that may have inappropriately influenced them in writing this article.

Authors' contributions

J.E.G. (Nelson Mandela Metropolitan University) was the project leader, and together with S.M.F. (Nelson Mandela Metropolitan University), was responsible for the project design and execution. S.B.S. (Nelson Mandela Metropolitan University) was responsible for the development of the coding framework and provided assistance with data analysis.

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