Determinants of entrepreneurship: an examination of entrepreneurial perception of students

Cristina Lidia Manea, Elena-Mirela Nichita, and Alina Mihaela Irimescu

Abstract

Research Question: What determinants drive the entrepreneurial intentions of students enrolled in accounting master programs: entrepreneurial competencies, family and friends support or entrepreneurial education? Motivation: The current research purpose is to explore to what extent the entrepreneurship is a feasible alternative career for students enrolled in accounting master programs and the role of academic education in entrepreneurship in selecting the entrepreneurial career. Generally, entrepreneurs are associated with providers of novel products and/or services, but we consider the entrepreneurial career in accounting services as feasible as any other career. Idea: The student’s interest in entrepreneurial activities remains greatly influenced by the entrepreneurial universities policies, making the role of universities crucial. Based on the affirmation that current students will be tomorrow’s successful entrepreneurs (Pribeanu and Milutin, 2014), it is essential to increase the impact of entrepreneurial education on the student’s life. It is not easy for universities, knowing the changes and challenges that they have to face nowadays (Schulte, 2014), but it is their responsibility and they do have the responsibility to make the change possible. Data: The data of this paper is collected based on a survey on the student’s perception on entrepreneurship and analyses the competences and abilities they gain as result of their bachelor studies and how these perceived competencies and abilities are currently helping or will help them to choose an entrepreneurial career. Tools: The study is based on a questionnaire distributed to master students enrolled in accounting master programs organized by The Bucharest University of Economic Studies, Romania.
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University of Economic Studies. The research methodology consists of a descriptive analysis and regression analysis. Additionally, the structure of questionnaire allows us to use the Carlsson et al.'s (2012) framework for investigating the entrepreneurship, which is based on two perspectives, namely explorative and exploitative. **Findings:** The findings allow to state that students are taking into consideration the entrepreneurship career and their decision is positively influenced by family and friends setting and education. The test of the models resulted in adjusted R-squares higher than 0.90 indicating robust support for the regression models. **Contribution:** Our empirical study investigates three determinants of entrepreneurial skills and, as result of this research, universities, government officials and others interested in stimulating entrepreneurial motivation should consider how their actions affect potential entrepreneurs’ enthusiasm. Furthermore, this academic paper enhances the Romanian academic literature in the field of entrepreneurship.

**Keywords:** entrepreneurship, willingness to become an entrepreneur, family support, entrepreneurial skills, entrepreneurial education

**JEL codes:** I25, M41

1. **Introduction**

Research in entrepreneurship is to some extent contemporary and rapidly progressing, and is acknowledged in sub-fields within several subjects: economics, management / business administration, sociology, strategy, marketing, finance, economic and cultural anthropology representing a mixture of research practices, perspectives and methods.

The long-time classical economic theory developed by A. Smith based on equilibrium models was challenged by Schumpeter’ theory of “creative destruction” (1934) bringing into light the agents who tend to break the equilibrium by introduction innovations; currently, agents are known as entrepreneurs.

The research in evolution of entrepreneurship theory (Carlsson et al., 2012) ascertains that entrepreneurship covers two perspectives: firstly, explorative standpoint of entrepreneurship focusing on the role, characteristics and behaviour of individuals and how they associate to create businesses and, secondly, exploitative standpoint of entrepreneurship which analyse the outcomes of activities and how these outcomes are influenced by socioeconomic environment: institutions, norms,
Entrepreneurship can be generally defined as the identification and systematized exploitation of unusual and creative opportunities for value creation and capture, where the intended value outcomes may be commercial, social, institutional, or cultural in nature (Iazzolino et al., 2019).

European Reference Framework for key competencies for lifelong learning defines entrepreneurship as: "A sense of initiative and entrepreneurship is the ability to turn ideas into action. It involves creativity, innovation and risk-taking, as well as the ability to plan and to manage projects in order to achieve objectives. The individual is aware of the context of his/her work and is able to seize opportunities that arise. It is the foundation for acquiring more specific skills and knowledge needed by those establishing or contributing to social or commercial activity. This should include awareness of ethical values and the promotion of good governance" (European Commission, 2006, 2018)

EU has entitled entrepreneurial skills, encouraging entrepreneurship by fostering the right mind-set and awareness of career opportunities as an entrepreneur, as objectives and methods for European education system (Komarkova, 2015).

The current academic paper is combining both, explorative and exploitative angles acknowledged by Carlsson et al. (2012); the explorative perspective of entrepreneurship is putting into light the individual characteristics and judgements of students enrolled in accounting master programs about entrepreneurship offering an overview concerning the drivers that motivate them to engage into new ventures; in addition, the exploitative perspective examines the academic curricula to highlight the receptiveness of university in respect to entrepreneurship themes.

The data of this paper is collected based on a survey on the student’s perception on entrepreneurship and analyses the competencies and abilities they gain as result of their bachelor studies and how these perceived competences and abilities are currently helping or will help them to choose an entrepreneurial career.

Entrepreneurship education is crucial for boosting economic growth (Acs, 2006; Carree & Thurik, 2010; Thurik & Wennekers, 2004) as it allows to run free the entrepreneurial potential of young people, helping them to develop a critical eye for entrepreneurial opportunities, skills to prepare assignments, and an ability for taking
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Following the Hambrick’s (2007) and Marin et al.’s (2015) assertion that structural researchers must balance theoretical with practical implications, this study addresses the issue on entrepreneurship that we consider to be of great importance for universities in modelling the curricula to develop and enhance the entrepreneurial skills of their students.

This investigation aims to offer an image of the master students’ perceptions and comprehension regarding the match between the design of their competencies and skills and the entrepreneurship, as an option for a worthwhile career.

The paper is organized as follows: the literature review section with focus on entrepreneurial skills and role of education in shaping the entrepreneurial proficiencies, then, research methodology displays the information about questionnaire we used to collect information from students; the results section points out the findings, and, finally, the paper concludes with implications for business and academia, limitations and further research challenges.

2. Literature review

Academic literature analysis suggests that entrepreneurial student interest depends on both external and individual factors (Cooper, 2003; Gartner, 1988; Heblich & Lederer, 2011; Heider, 1958; Iazzolino et al., 2019; Medinschi, 2014; Moberg, 2014; Neațu & Imbrischă, 2015; Shane, 2002; Shaver, 2004).

External factors are the institutions, such as university context, family business experience and socio-economic context. These circumstances can be encouraging to the development of the knowledge required to start a business and to familiarize the student to the entrepreneurship world. Literature shows a clear connection between the student’s willingness to undertake a business and the possibility of accessing the knowledge necessary to do this (Bergmann et al., 2018; European Commission, 2015; Fiet, 2001; Filip, 2017; Negescu, 2013; Priebeau & Milutin, 2014).

Internal factors are the student entrepreneurial attitudes and assertiveness. The desire to start a business is being motivated by a personal passion, which can derive from past experiences and personal abilities. All the factors influence the decision-making process of the student in deciding for an entrepreneurial career (Acs et al. 2009;
2.1 Entrepreneurial skills

The hypothesis that entrepreneurs are generalists who are good at a variety of skills, although not necessarily excellent at anyone (Lazear, 2004) is confirmed by Chen and Thomson’s (2014) research paper. The perfect entrepreneur is a balance between the cognitive intelligence and training of a manager and emotional intelligence of a leader (Minica, 2017).

Entrepreneurial skills combine a range of technical, management and personal skills (EC, 2014; Cooney, 2012; OECD, 2014) as follows: technical skills include communication, environment monitoring, problem solving, technology implementation and use, interpersonal, organisational skills; business management skills include planning and goal setting, decision making, human resources management, marketing, finance, accounting, customer relations, quality control, negotiation, business launch, growth management, compliance with regulations skills, and, respectively, personal entrepreneurial skills that include self-control and discipline, risk management, innovation, persistence, leadership, change management, network building, and strategic thinking.

The outstanding qualities of an entrepreneur are the predilection to take risks (Bădulescu 2015; Călin-Costin, 2013; Ceptureanu 2015; Cișmariu (Zepa), 2014; Ghicăjanu, 2015; Kuip & Verheul, 2003; Medinschi, 2014; Neațu & Imbrisca, 2015), the characteristic of high level of optimism (Hmieleski & Baron, 2009; Neațu & Imbrisca, 2015), and “alertness” (Demsetz, 2008; Gaglio, 1997; Gaglio & Katz, 2001; Kirzner, 2009; Manne, 2014; Tang et al., 2012). Some researchers are disagreeing on risk taking feature and state the opposite: the risk aversion attitude encourages individuals to invest in balanced skill profiles, making them more likely to become entrepreneurs (Hsieh, 2016). Furthermore, Ceptureanu (2015), Davidsson and Honig (2003), Munteanu (2015) and Nicodim et al. (2016) have shown that social skills, as the ability to take advantages from social connections, networks, are central for becoming an entrepreneur as well as for the success rate of making it through the start-up phase.

Whether a person is an employee or an entrepreneur all that matters is to educate his/her flexibility to meet the challenges, recognize opportunities and step back in time from businesses that have lost their marketplace (Medinschi, 2014). Entrepreneurship is a way of thinking, then a planned behaviour, and finally, an economic activity (Galea, 2017).
Entrepreneurship competencies combine creativity, a sense of initiative, problem-solving, the ability to manage financial and non-financial resources and technological knowledge. These competencies enable entrepreneurs and entrepreneurial employees to motivate and adapt to economic changes. Entrepreneurial skills and abilities can be developed through entrepreneurship education and trainings that focus on promoting an entrepreneurial mindset and behaviours. (OECD, 2018).

2.2 The role of education in entrepreneurship

Although there is an increased appreciation for and acknowledgment of the role played by new and small businesses in the economy (Kelley et al., 2010) and entrepreneurship academic education has begun to knowledge the attention of policy-makers and researchers, there remain many unanswered questions about how individual and social factors shape the decisions of academics to engage in entrepreneurial activities. The first course in entrepreneurship was offered at the Harvard Business School in 1947. Since then, many universities included entrepreneurship subjects into their curricula; moreover, studying entrepreneurship has been suggested to directly conceptualize the relationship between entrepreneurship, labour markets and career options (Burton et al., 2016).

Understanding the dynamics shaping the development of entrepreneurial competencies advances theoretically significant questions as to how entrepreneurs gain competencies and about the extent to which entrepreneurial competencies are the result of individual or contextual factors (Carlsson et al., 2012; Iazzolino et al., 2019; Rasmussen et al., 2014; Rasmussen et al., 2015). Many studies focused their research on the influence that education could have on the aspects and aspirations of young people, while few empirical studies have examined the entrepreneurial predisposition of university students as a source of future entrepreneurs (Wang and Wong, 2004). The goal of entrepreneurship education is to give people the knowledge, skills and attitudes to act in an entrepreneurial way (Moberg, 2014).

Currently, the teaching of entrepreneurship is not yet sufficiently integrated in higher education institutions’ curricula (Wang and Wong, 2004). Available data show that most entrepreneurship courses are offered in business and economic studies (European Commission, 2008). However, European Commission (2008) is questioning if business schools are the most appropriate places to teach entrepreneurship, since innovative and worthwhile business ideas are more likely to arise from technical, scientific and creative studies.
Entrepreneurial education is the main factor in entrepreneurship (Negoescu, 2013) and its aim is to give students the attitudes, knowledge and skills to act in an entrepreneurial manner (Tsakiridou & Stergiou, 2014), promoting creativity and innovation (Medar, 2015). The knowledge obtained by students is used at workplace (Stanciu & Tinca, 2017) and, consequently universities should encourage subjects with future-oriented, positive and proactive information, tremendously valuable to entrepreneurs on daily undertakings.

Teaching entrepreneurship is a necessity (Filip, 2017), but this would not limit the difficulties that entrepreneurs faces, but sometimes will even increase them according to Avram and Sabou (2016), who stated that the entrepreneur with a high level of education will permanently search to develop the business, facing new difficulties that need to be solved.

The student’s interest on entrepreneurial activities remains greatly influenced by the entrepreneurial universities policies, making the role of universities crucial. Knowing that the present students will be the tomorrows successful entrepreneurs (Priebeanu & Milutin, 2014), it is essential to increase the impact of entrepreneurial education on the student’s life. It is not easy for universities, knowing the changes and challenges that they have to face nowadays (Schulte, 2014), but it is their responsibility and they do have the means to make the change possible. There are a lot of solutions that universities might use to stimulate the spirit of future entrepreneurs.

On one hand, they might ensure the development of students’ entrepreneurial specific competences within university by organizing conferences, contests on entrepreneurial topics, valuing the best idea plan, but more important, by the teaching techniques used in the education process. It is well known that the more diverse the teaching and learning methods used, the broader the learning process is. Therefore, combining the face-to-face interaction teaching methods with the information and communication technologies, and putting the students in a central position will lead to greater efficiency. Many studies (Ceptureanu, 2016; European Commission, 2015; Roșca & Șipoș-Gug, 2015) demonstrated that student-centred education is stimulating the entrepreneurial spirit of students. Indeed, the learning-by-doing pedagogical approach has positive influence on both, learning experience and development of entrepreneurial skills. Through creativity-based learning, challenge-based learning, discovery-based learning (Pavlov, 2014) and business simulation games (Ploae, 2014), the students will experience confidence, will be able to make decisions in uncertainty situations, manage the risk better, find best solutions in a record time and overcome difficulties. Therefore, there is the need for business schools to rethink the use of teaching content and methods related to the development
and improvement of potential innovative thinking, responsible entrepreneurs (Amundam, 2019)

On the other hand, universities might act by building national and international partnerships between universities and economic agents (Diaconu & Duțu, 2016). The connection to the outside world is established by protocols with the training companies, as their role is well known in the entrepreneurial education (Isac, 2017), and by inviting business professionals or entrepreneurs to share their experience and to be perceived as models that might be followed.

There are also the students’ organizations that are playing an important role in shaping the entrepreneurial competencies of students through the organization, planning and coordination of complex and diverse activities (Zamcu, 2013). Furthermore, there are universities that are relying on the activity of students’ associations to promote social change (Cantaragiu et al., 2014). Along with these students’ organizations, Alumni involvement is often useful in motivating students (European Commission, 2015).

3. Research methodology

The current research aims to investigate the ability to become an entrepreneur, the impact of environment – family and friends support, the willingness to become an entrepreneur and the influence of education on students’ attitude in regard with entrepreneurship. As other similar studies (European Commission, 2013; European Social Entrepreneurship and Innovative Studies Institute, 2015; Eryanto & Swaramarinda, 2018; Fini et al., 2016; Kerr, 2017; OECD, 2007; VOYAGE, 2016), the authors conducted a survey to identify if essential behavioral characteristics for a career in entrepreneurship are encapsulated in master program students’ personality and also to motivate university to improve curricula to enhance the entrepreneurship actions.

The students’ perception questionnaire (Eryanto & Swaramarinda, 2018; Peterson et al., 2000; van der Scheer, 2018) comprises three parts: the first 20 questions addressing four main topics: ability to become an entrepreneur, environmental background where students developed their personality, willingness to become an entrepreneur, and the influence of education in the entrepreneurial decision making process; the next five requests collect data about age, gender, work experience, high school profile and bachelor degree; the questionnaire closes with open question, as comments. The construction of questionnaire allows us to apply the Carlsson et al.’s (2012) framework for investigating the entrepreneurship, which is based on two perspectives, namely explorative perspective- personality of entrepreneurs, and
exploitative perspective – external factors influencing the entrepreneurship career decision.

The survey uses Likert scale (Bertram, 2016; Likert, 1932), from 1 (strongly disagree) to 5 (strongly agree), to assess participants' level of agreement with our proposed statements.

3.1 Data description

The data of the research are collected by conducting a survey with 1st and 2nd year students from master programs organized by Accounting and Management Information Systems Faculty from The Bucharest University of Economic Studies, Romania (Accounting, Control and Expertise, Accounting and Taxation of Economic Entities and Financial Analysis and Evaluation); the data were collected by direct distribution of questionnaire at the beginning of the second semester of 2018-2019 academic year and at the beginning of the first semester of 2019-2020 academic year. The first data set consists of 161 questionnaires, from which 157 were accepted as valid, representing a success rate of 97.5%, while the second data set comprises 68 questionnaires with 65 stated as valid (96%).

Secondary data used in the paper, regarding entrepreneurship, are extracted from curricula of bachelor and master's degree programs organized by The Bucharest University of Economic Studies, Romania.

3.2 Method of analysis

This paper uses descriptive statistical indicators such as the media, median, sample variance and the coefficient of variation in order to analyse the students' attitude toward their ability as entrepreneurs, impact of environmental background, willingness to become an entrepreneur, and the role of academic education in entrepreneurship decision making process.

Additionally, two regression models are used to test the hypotheses:
H1 Entrepreneurial skills are influenced by education, and
H2 Willingness to become an entrepreneur is influenced by education and family support.

3.3 Broad view on respondents' profile

Most of the respondents of our survey are female (over 75%); the distribution in terms of high school graduated highlights that more than 50% of the master students have an economic background. Most of the students (more than 71%) enrolled in
Accounting master programs have a bachelor’s degree in accounting, as shown in Table 1.

Table 1. Characteristics of respondents – master program graduated

<table>
<thead>
<tr>
<th>Bachelor’s degree</th>
<th>Number of graduates for Data set 1</th>
<th>%</th>
<th>Number of graduates for Data set 2</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting and Management Information Systems</td>
<td>111</td>
<td>71.15%</td>
<td>53</td>
<td>81.54%</td>
</tr>
<tr>
<td>Management</td>
<td>9</td>
<td>5.77%</td>
<td>2</td>
<td>3.07%</td>
</tr>
<tr>
<td>Finance and Banking</td>
<td>6</td>
<td>3.85%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Theoretical and Applied Economics</td>
<td>4</td>
<td>2.56%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Management and Public Administration</td>
<td>4</td>
<td>1.92%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>International Economic Relations</td>
<td>3</td>
<td>1.92%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Business and Tourism</td>
<td>3</td>
<td>1.92%</td>
<td>2</td>
<td>3.07%</td>
</tr>
<tr>
<td>Marketing</td>
<td>2</td>
<td>1.28%</td>
<td>1</td>
<td>1.53%</td>
</tr>
<tr>
<td>Business Administration (in foreign languages)</td>
<td>2</td>
<td>1.28%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Public Administering – Human resources</td>
<td>1</td>
<td>0.64%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Agrifood and environmental economics</td>
<td>1</td>
<td>0.64%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Faculty form The University of Economic Studies, but not declared</td>
<td>4</td>
<td>2.56%</td>
<td>1</td>
<td>1.53%</td>
</tr>
<tr>
<td>Other faculty, external of The University of Economic Studies</td>
<td>7</td>
<td>4.49%</td>
<td>6</td>
<td>9.24%</td>
</tr>
</tbody>
</table>

Our respondents are predominantly young people with age between 19 and 25 years (87.82%) as shown in Table 2.

Table 2. Characteristics of respondents – age

<table>
<thead>
<tr>
<th>Age</th>
<th>Data set 1</th>
<th>Data set 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Younger than 25 years</td>
<td>87.82%</td>
<td>89.23%</td>
</tr>
<tr>
<td>Age between 26 years and 35 years</td>
<td>8.97%</td>
<td>9.23%</td>
</tr>
<tr>
<td>Older than 35 years</td>
<td>3.21%</td>
<td>1.54%</td>
</tr>
</tbody>
</table>

Since the respondents are very young, the work experience is customarily less than 1 year as shown in Table 3.

Table 3. Characteristics of respondents – work experience

<table>
<thead>
<tr>
<th>Work experience (in years)</th>
<th>Data set 1</th>
<th>Data set 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 1 year</td>
<td>58.83%</td>
<td>44.62%</td>
</tr>
<tr>
<td>Between 1 year and 3 years</td>
<td>35.89%</td>
<td>44.62%</td>
</tr>
<tr>
<td>Between 3 years and 5 years</td>
<td>1.92%</td>
<td>9.23%</td>
</tr>
<tr>
<td>More than 5 years</td>
<td>3.84%</td>
<td>1.54%</td>
</tr>
</tbody>
</table>
4. Analysis and results

4.1 Ability to become an entrepreneur

The first part of the questionnaire included questions (Q1 to Q6) that were addressed to observe the students' perception on owning entrepreneurial competencies, such as risk taking, creativity, self-confidence, independence, hardworking intentions, adapting to changes. These characteristics discuss the explorative perspective of Carlsson et al.'s (2012) framework. Entrepreneurs are risk takers, they have the courage to sacrifice employment benefits, to feel independent, to be their own boss. They are creative and self-confident; they seek opportunities to make benefits and overcome challenges and difficulties that inevitably affect all entrepreneurs at some point in their careers. Entrepreneurs work hard, they invest not only money, but time and effort and succeed to adapt to change, make quick decisions. The results show that 31% from the participants have great skills for becoming entrepreneurs, as they accumulated more than 24 points from the total of 30 points on Likert scale.

4.2 Family and friends support

An entrepreneur needs family support, from money to encouragements, positive support, understanding in periods of stress, so that he can concentrate on the business. Scott and Twomey (1998) showed that students whose parents owned a business demonstrated higher preference for an entrepreneurial career than a simple employee position. The descriptive analysis from Table 4 shows that almost 76% from the participants declared that they have family support to startup their business (Q7), being consistent with Scott and Twomey's (1998) findings. Parents support is easy to obtain, but wife/husband and children understanding is hard to achieve because they have to accept that an entrepreneur spend a lot of time away from the family.

On the other hand, family might provide inspiration and knowledge about managing a business especially when a parent runs his/her own business. This is also available for friends. A parent or a friend that is his own manager turn into a model easy to follow. The descriptive analysis shows that 38% of the students have a member of the family running his own business (Q8) and almost 27% of them have friends involved in entrepreneurship (Q9).
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Table 4. Descriptive statistics on family and friends support

<table>
<thead>
<tr>
<th>Items</th>
<th>Strongly agree</th>
<th>Somewhat agree</th>
<th>Neither agree nor disagree</th>
<th>Somewhat disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.7 Family support to startup a business</td>
<td># 86</td>
<td>32</td>
<td>16</td>
<td>13</td>
<td>9</td>
</tr>
<tr>
<td>Q.8 Family models</td>
<td>% 55%</td>
<td>21%</td>
<td>10%</td>
<td>8%</td>
<td>6%</td>
</tr>
<tr>
<td>Q.9 Friends models</td>
<td>% 34%</td>
<td>4%</td>
<td>8%</td>
<td>8%</td>
<td>47%</td>
</tr>
<tr>
<td>Q.19 Erasmus students</td>
<td>% 3%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>153%</td>
</tr>
<tr>
<td>Q.20 Work &amp; Travel program</td>
<td>% 7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>96%</td>
</tr>
</tbody>
</table>

The participants were also asked whether they traveled as Erasmus students (Q 19) or as part of work and travel programs (Q20), in order to investigate if they had the opportunity to connect to other cultures, where young people wish to achieve financial success through entrepreneurship. The survey suggested that an insignificant number of students were part of such programs.

4.3 Willingness to become an entrepreneur

Although 84% from the respondents are employees and are enjoying the benefits of a stable career (Q11), almost 60% expressed the desire to startup their own business (Q10), sacrificing employment benefits as shown in table 5.

Table 5. Descriptive statistics on willingness to become an entrepreneur

<table>
<thead>
<tr>
<th>Items</th>
<th>Strongly agree</th>
<th>Somewhat agree</th>
<th>Neither agree nor disagree</th>
<th>Somewhat disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q.10 Willingness to startup own business</td>
<td># 57</td>
<td>36</td>
<td>38</td>
<td>11</td>
<td>14</td>
</tr>
<tr>
<td>Q.11 Being employee</td>
<td>% 37%</td>
<td>23%</td>
<td>24%</td>
<td>7%</td>
<td>9%</td>
</tr>
<tr>
<td></td>
<td>% 78%</td>
<td>6%</td>
<td>6%</td>
<td>2%</td>
<td>8%</td>
</tr>
</tbody>
</table>

They are willing to risk their regular paycheck for own success in running a business venture. This is consistent with the findings of Tecău (2016) and Bădulescu (2015) who studied the students’ perception on embracing a future entrepreneurial career, but also with Roșca and Șipoș-Gug (2015) who investigated the students’ inclination towards entrepreneurship.
4.4 The influence of education in entrepreneurship decision making process

Entrepreneurial education is the activity of teaching and learning about entrepreneurship that involve development knowledge, skills, attitude and personal qualities appropriate to the age and development of the pupils or students (Lin et al., 2008).

Education institutions play an important role in shaping the students' interest for entrepreneurship through the implication of professors to promote entrepreneurship and through organizing conferences or contests for students.

| Table 6. Descriptive statistics on students’ interest on entrepreneurship issue |
|------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Items | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
| Q.14 Participating to entrepreneurship conferences | # 16 | 9 | 22 | 21 | 88 |
| | % 10% | 6% | 14% | 13% | 56% |
| Q.15 Interest for more discussions based on entrepreneurship | # 73 | 47 | 31 | 3 | 2 |
| | % 47% | 30% | 20% | 2% | 1% |
| Q.17 Participating to entrepreneurial contests | # 11 | 20 | 22 | 36 | 67 |
| | % 7% | 13% | 14% | 23% | 43% |

The descriptive analysis from table 6 revealed that students have participated to conferences (Q14) and contests (Q17) in a low proportion, 16% and 20% respectively, but they have expressed their interest for more discussions based on entrepreneurship (Q15) in a greater proportion, 77%. This huge discrepancy may be explained by the student’s convenience: they are interested in more information about entrepreneurial issue, but they are not willing to spend extra time. Accordingly, the solution is to discuss additional entrepreneurial aspects in courses and seminars, more than in conferences. The increased interest in entrepreneurship information is consistent with the results of the research conducted by Sumedrea (2017) according to which students expressed an increased interest in participating in future meetings related to entrepreneurship, consequently, universities have implemented measures to improve their entrepreneurial climate with the aim of fostering the entrepreneurial tendency of students and researchers (Rasmussen & Borch, 2010). Institution of higher education can encourage academics and students to look beyond classrooms offering workshops and internships as instruments to bridge theoretical and practical knowledge (Albu et al., 2016) and courses in entrepreneurship (Boh et al., 2016).
Correlations

For further correlation the data are tested for homogeneity. Table 7 summarizes the indicators and the coefficient of homogeneity is below the threshold of 35%, in most of the cases.

<table>
<thead>
<tr>
<th>Statements on</th>
<th>Mean</th>
<th>Standard deviation</th>
<th>Coefficient of homogeneity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willingness to start-up own business Q10</td>
<td>3.711</td>
<td>1.275</td>
<td>34.36</td>
</tr>
<tr>
<td>Entrepreneurial skills Q 1-6</td>
<td>3.568</td>
<td>0.602</td>
<td>16.88</td>
</tr>
<tr>
<td>Family support to start-up own business Q7</td>
<td>4.109</td>
<td>1.226</td>
<td>29.85</td>
</tr>
<tr>
<td>Entrepreneurship education in university Q12,13,16</td>
<td>3.267</td>
<td>1.089</td>
<td>33.36</td>
</tr>
</tbody>
</table>

Two hypotheses are tested to assess the relation between education, entrepreneurial skills, willingness to become an entrepreneur and family support.

Correlating question 10 responses and those related to entrepreneurial skills, it results in a problematic fact: the number of students who want to run their own businesses exceeded the number of students who have the necessary skills in entrepreneurship, meaning that they succeed to startup their business but most probably they will fail to develop and manage the business venture. The students perceive entrepreneurship as a possible career option, they want to take the first step, but they should be helped to improve their skills in order to succeed as entrepreneurs.

Accordingly, the entrepreneurial skills are influenced by education - hypothesis H1, that will be tested with a regression model. For education there were summarized together multiple Likert items related to discussions on entrepreneurship (Q12), encouragements for becoming an entrepreneur (Q13) and invitations of business professionals or entrepreneurs (Q16). Running the single variable regression model, the equation is:

\[ ES = \alpha + \beta \times ED \]  

(1)

Where

\( ES \) = entrepreneurial skills

\( ED \) = education
The hypothesis was tested for both sets of participants (2018-2019 academic year and 2019-2020 academic year). The coefficients of the regression equation are statistically significant ($P$-value $\leq 0.05$). The intensity of the relationship between the two variables of the model used is measured by a multiple correlation ratio equal to 0.98 for both sets of data; there is a direct relationship between variables, of high intensity. The independent variable explains 96% of variation in skills development, the difference of 4% representing the influence of other factors. The model that captures the relation between the two variables is valid, with a confidence level of 0.95 ($\text{Significance F} \leq 0.05$).

The main conclusion of the regression model is that education is influencing in a significant way (by 96%) the development of the entrepreneurial skills and this explains why there are significant differences in terms of entrepreneurial skills for students following technical and economic studies (Botezat & Borza, 2016). It must be noticed that the results are very similar for both sets of data from different academic years. The results are consistent with the view of Nikoloski et al. (2014) who stated that higher education promote students’ entrepreneurial potential in the south-eastern European countries.

To test the hypothesis $H_2$ - The willingness to become an entrepreneur is influenced by education and family support, a regression model is used with two independent variables. The regression model is the following equation:

$$WE = \alpha + \beta_1 \times ED + \beta_2 \times FF$$

(2)

Where:
- $WE =$ willingness to become an entrepreneur
- $ED =$ education
- $FF =$ family support

As $P$-value $\leq 0.05$, the coefficients of regression are statistically significant.

The relationship between the dependent variable and the two independent variables is direct. The model is valid with a confidence level of 0.95. The willingness to become an entrepreneur is influenced by education and family support in a significant way (by 93%). Once again, the results for the 2018-2019 academic year participants are very consistent with those for 2019-2020 academic year participants.

The coefficients of regression models are summarized in Table 8.
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Table 8. Parameters of regression models

<table>
<thead>
<tr>
<th>Hypotheses</th>
<th>Data set 1</th>
<th>Data set 2</th>
<th>Data set 1</th>
<th>Data set 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coefficient of determination</td>
<td>0.963</td>
<td>0.974</td>
<td>0.925</td>
<td>0.928</td>
</tr>
<tr>
<td>Coefficient of correlation</td>
<td>0.981</td>
<td>0.987</td>
<td>0.962</td>
<td>0.963</td>
</tr>
<tr>
<td>Fisher Test</td>
<td>4,105.42</td>
<td>2,379.83</td>
<td>954.41</td>
<td>403.98</td>
</tr>
<tr>
<td>Regression coefficients</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercept</td>
<td>1.80</td>
<td>1.66</td>
<td>-0.31</td>
<td>-0.38</td>
</tr>
<tr>
<td>Coefficient of regression 1</td>
<td>0.54</td>
<td>0.61</td>
<td>0.48</td>
<td>0.41</td>
</tr>
<tr>
<td>Coefficient of regression 2</td>
<td></td>
<td></td>
<td>0.62</td>
<td>0.70</td>
</tr>
</tbody>
</table>

The validation of the second hypothesis should be linked to the fact that most of the participants have not studied any entrepreneurship discipline during faculty or master. The analysis of curricula of master programs organized by Accounting and Management Information Systems reveals a lack of disciplines regarding entrepreneurship, even though, the curricula of other faculties comprises a small number of disciplines on entrepreneurship (Table 9). Similar results are found by Pitulice and Manea (2015) when analyses the entrepreneurial spirit in universities.

Table 9. Subjects on entrepreneurship

<table>
<thead>
<tr>
<th>Faculty*</th>
<th>Bachelor’s degree</th>
<th>Master’s degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agrifood and environmental economics</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Business Administration (in foreign languages)</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Business and Tourism</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cybernetics, Statistics and Informatics</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Finance and Banking</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>International Economic Relations</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Management</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Management and Public Administration</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Marketing</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Theoretical and Applied Economics</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

* in alphabetical order

However, the professors have filled this gap by addressing issues related to entrepreneurship in courses or seminars, by encouraging students to become entrepreneurs and by inviting professionals to their activities.
The above data highlights the unsatisfactory subjects employed in academic curricula, but the same concern exists in other developing countries due to structural, cultural, political and educational difficulties (Toktamysov et al., 2019)

5. Conclusion

The entrepreneurial activity is influenced by socioeconomic environment and result in economic growth and human welfare.

The study is based on a students' perception questionnaire distributed to students enrolled in accounting master programs organized by The Bucharest University of Economic Studies during 2018-2020.

The core of this investigation focuses on hypotheses which proves that the entrepreneurial skills are influenced by the education and the willingness to become an entrepreneur is influenced by family and family support. This means that if a master graduate wants to begin his/her own business in near future, he/she would definitely be able to achieve that. No matter there is a social pressure or family obstacles, his/her attitude will have an influence on his/her action. Our findings support the previous studies carried out in this research area (Awan & Ahmad, 2017; Ozaralli & Rivenburgh, 2016; Peng et al., 2012). The similar results obtained for the both sets of participants from the two different academic years show the validity of our models.

The current research paper uses the Carlsson et al.'s (2012) framework for examining the entrepreneurship, which is based on two perspectives, namely explorative and exploitative. The explorative perspective is referring to analysis of characteristics of entrepreneurs' personality, for instance, creativity, risk taking attitude, bravery; the exploitative perspective analyses the support of family and friend as a determinant of choosing an entrepreneurial career, accompanied by examination of academia's syllabuses discussing to entrepreneurship. We identified that more than 1/3 of our responders possess abilities starting their own business and they are not afraid of failure.

Other studies have observed that male students have stronger entrepreneurship aspirations than females (Wang & Wong, 2004; Bergmann et al., 2018) which are contradicting our findings where, the sample dominated by female master students conducts to the outcome that both, female and male students are willing to engage in entrepreneurial activities.

In our study, we revealed that entrepreneurial education is influencing the willingness of master students in becoming self-employed. This is consistent with
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Kumar et al. (2012) results but, in the same time, is in opposition with the Oosterbeek et al. (2010) findings, as they showed that the entrepreneurial education given by the education institution does not have impact to students’ motivation, and intention to become an entrepreneur.

Generally, entrepreneurial education aims to increase awareness in respect of entrepreneurship as a career choice (Arasti et al., 2012).

Entrepreneurial competencies are defined as higher-level, improvable characteristics entailing personality traits, skills, and knowledge that bring about the ability to accomplish something through the use of resources (Rasmussen et al., 2011).

Together with findings, our investigation discloses that students are motivated and have a high willingness to become entrepreneur, and their family and friends are supportive in this journey; these results are consistent with Kumar et al.’s (2013) paper.

The limits of research refer to: firstly, the surveys almost always carry the risk of selection bias. It is possible that students may avoid extreme response and may agree with some statements in order to please the experimenter. The survey reveals lack of reproducibility and, in many cases is difficult to demonstrate the validity, especially when we analyse human behaviours (Bertram, 2016). Self-reported data carry certain risks of misperception and confusions; in this case, may be related to the ways in which students perceive the questions and how assess the value reported (strongly agree vs strongly disagree); secondly, the research has only focused on some of master programmes organized by Accounting and Management Information Systems during academic year 2018-2019.

A critic in respect to research methodology based on questionnaire is that the findings cannot be extended to wider populations with the same degree of certainty that quantitative analyses can (Atieno, 2009).

Entrepreneurship is a combination of mind-sets, knowledge and skills, and higher education should set up a strategy and an action plan for teaching and researching in entrepreneurship embedding practice-based activities, and strengthen relationships with successful entrepreneurs, Alumni of universities, to enhance all above mentioned dimensions.

We recommend to The Bucharest University of Economic Studies to step forward in adjusting their curricula with more entrepreneurial theme disciplines to contribute in a greater manner in shaping and enlightening the entrepreneurial skills and competences of students; all the more, the OECD (2015) ascertained an increase in number of new ventures created by students and European Commission’ studies
Acknowledged entrepreneurial initiative as a key competence for long-life wisdom (Komarkova, 2015).

The future research will attempt to distribute the questionnaire to the students that are enrolled in all master programmes organized by The Bucharest University of Economic Studies and to continue with next cohorts in order to develop a consistent and reliable data base for future robust researches in entrepreneurial field.

Entrepreneurship is fascinating, in different forms and for different purposes: for the young students and graduates represents a future career opportunity; for higher education institutions is a drive to adjust the academic curricula to the new generations’ expectations; for the economy is a key for growth and long-term development (Bădulescu, 2015).

Our paper contributes to this growing academic literature by considering the aspects influencing the entrepreneurial decision among masters’ students and to start a more coherent conversation about the relationship between entrepreneurship degree curricula and courses hosted by other disciplines within the framework of cross-disciplinary programs. Focusing on the choices and reasoning of young entrepreneurs allows for an in-depth understanding of the relationship between education and practice (Bar-Lev et al., 2019). Additionally, the use of Carlsson et al.’s (2012) framework contributes to organize the paper in a structured manner empowering examination of the personality of entrepreneurs and, as well the external environment represented by family, friends and university as a provider of knowledge to start a business.

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*** European Commission, „Promoting entrepreneurship”, available online at: https://ec.europa.eu/growth/smes/promoting-entrepreneurship_it, accessed 15th of February, 2019


