The Effect of Perceived Corruption on Entrepreneurial Intention: Evidence from Italy

Alessandra Allini¹, Luca Ferri¹, Marco Maffei¹, Annamaria Zampella¹

¹Department of Economics, Management, Institutions, University of Naples Federico II, Italy

Correspondence: Luca Ferri, Department of Economics, Management, Institutions, University of Naples Federico II, Italy.

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Abstract

This paper aims to examine the entrepreneurial intention of undergraduate students, using a modified version of Ajzen’s theory of planned behavior (TPB), considering the perception of corruption. We conducted a questionnaire survey with Italian students. There were a total of 350 student participants. In order to analyze the data collected with the questionnaire, structural equation modeling is provided. Our results indicate that the majority of students have strong entrepreneurial intention but due to the effect of corruption students are dissuaded from engaging in entrepreneurship. Corruption has a negative effect on students’ entrepreneurial behavior. This paper provides a new model that helps to understand the students’ entrepreneurial intentions considering the corruption perception.

Keywords: corruption, theory of planned behavior, entrepreneurial intention

1. Introduction

Entrepreneurship is a complicated, risky and uncertain process; for this reason not everyone is able to start a new business (Fatoki, 2010). The entrepreneurial process is experimental by nature (Fatoki, 2010) but it is plausible that entrepreneurial intentions are influenced by past experiences (Robinson et al., 1991; Sullivan, 2000; Minniti & Bygrave, 2003; Politi, 2005), personal formation (Harris & Gibson, 2008; Hussain et al., 2008) and personal attitudes (Robinson et al., 1991; Hatten & Ruhland, 1995; Krueger et al., 2000). For example, according to Robinson et al. (1991) and Hatten & Ruhland (1995), attitudes and intentions about entrepreneurship can be learned, measured and improved. Several authors stated that entrepreneurial skills can be learned (Kuratko, 2005; Stuetzer et al., 2013) as is demonstrated by the growing number of entrepreneurship programs at universities (Kuratko, 2005; Matlay, 2006). Further literature focused on entrepreneurial intention to examine the key determinants (Krueger et al., 2000) in the decision making process of young entrepreneurs (Baum et al., 2014; Omorode et al. 2015). This literature explains the main motivations of entrepreneurial intention but does not consider the existing limitations to would-be entrepreneurs actually starting up businesses (Shin, 2015; Lund, 2016). While there are several studies that explain how people take the decision to become entrepreneurs, there is a lack of literature about the factors that prevent people from engaging in entrepreneurial activity.

The existing body of literature does not consider the external factors that could reduce the intention to start a new venture. Far less attention has been focused on these factors, known as “entrepreneurial inhibitors”, considered as all the factors that could represent a limit to entrepreneurial intentions. According to Estrin et al. (2006; 2013) one of the main entrepreneurial inhibitors is the perception of corruption. Shin (2015) discusses this statement, highlighting that high levels of corruption can reduce the degree of competitiveness due to the “unfair-play”. More specifically, high levels of perceived corruption can deter people from becoming entrepreneurs in order to avoid the risk of wasted effort. This phenomenon presents an important problem; corruption can significantly reduce entrepreneurial intention thereby economically weakening a state or region and reducing the possibility of work for students. A complete understanding of the constraints produced by entrepreneurial inhibitors is crucial to researchers and practitioners if they are to counteract the negative impact on the behavior and choices of potential entrepreneurs.

The purpose of the present study is to examine the effect of perceived corruption, considered as the main entrepreneurial inhibitor (Shin, 2015), on students’ entrepreneurial intentions and behavior. To this aim we used a modified version of Ajzen’s Theory of planned behavior (TPB) (Ajzen, 1985) integrated with perceived
corruption. We choose the theory of planned behavior because its predictive force is widely recognized in previous research (Fayolle & Lifyán, 2014; Kautonen et al., 2011, 2015).

The paper is organized as follows: Section 2 provides a review of the literature about entrepreneurial intention, corruption and theory of planned behavior. Section 3 describes the methodology used for our research. Section 4 presents the research results and the discussion. Finally, Section 5 provides the conclusions.

2. Literature Review

2.1 Entrepreneurial Intention

There are numerous definitions ascribed to the term “entrepreneurship” (Covin & Slevin, 1991; Bruyat & Julien, 2001), ranging from the specific, starting one’s own business, to the abstract, a work attitude that emphasizes self-reliance, initiative, innovativeness, and risk-taking (Gartner, 1990; Montano & Kasprzyk, 2015). Nowadays, shifts in the socio-economic landscape have left fewer opportunities for continuous employment. This has caused a radical change in individual work preferences, with many now favoring self-reliant employment options (Baruch, 2004; Gibb, 2002; Hall, 2002). Further literature about entrepreneurial intention has focused on issues such as social contexts (Martin & Osberg, 2007; Abu-Saifan, 2012), personality traits (Zhao & Seibert, 2006; Aranha et al., 2017) and personal experiences (Zhao et al., 2005) to explain the reasoning behind and individual’s intention to become an entrepreneur (Dyer, 1994; Henderson & Robertson, 1999; Henry et al., 2005; Gozukara & Colakoglu, 2015). Moreover, much of the research that seeks to explain entrepreneurial intentions (EI) is flawed (Mitchell et al., 2007). Many researchers have focused on the prediction of entrepreneurial intentions (EI) rather than on the realization. For example, Zhao et al. (2005) found that entrepreneurial intentions are strongly related to personal attitude and to self-perception.

2.2 Corruption Perception

According to Everett et al. (2007), the main entrepreneurial inhibitor is the perception of corruption. We currently live amidst a “corruption eruption” (Glynn et al., 1997; Everett et al., 2007); several authors claim that this is a moment of crisis that could have many pernicious consequences (Fjeldstad & Tungodden, 2003) such as loss of government revenue (Stapenhurst & Sedigh, 1999; Fjeldstad & Tungodden, 2003; Everett et al., 2007), costs for businesses that engage in corruption and missed opportunities for those that do not (Caiden et al., 2001). Corruption represents a distortion in standards of merit that reduce the respect for law, resulting in higher investment for public sector and firms, and a lower quality of services (Hamir, 1999; Everett et al. 2007). This definition was used also by Estrin et al. (2013), which stated that corruption is an informal institution negatively associated with economic variables such as gross domestic product per capita (GDP) (Kaufman and Kraay, 2006; Estrin et al, 2013; Quazi et al., 2014), income equality (Carmignani, 2005) and total factor productivity (Lambsdorff, 2003). What should be noted is that, despite these different definitions, there is an overwhelming consensus in the literature of the disruptive power that corruption has over economic systems. According to Melgar et al. (2010), corruption perception is cultural phenomena that depends on a deviation from the social understanding of the rules. Indeed, it depends on personal and moral values and reflects the propensity of people to pay in order to receive something illegal. Corruption does not directly reflect the degree of perceived corruption. High levels of corruption perception could have more devastating effects than corruption itself, generating a social phenomenon known as “culture of distrust” (Melgar et al., 2010). In this situation corruption perception can create “demotivation” in doing something between people. This demotivation can be translated to market inequality (Gupta et al., 2002) and thus lower entrepreneurial intentions. This idea was shared by Azmat and Samarutunge (2004) according whom corruption represents the most corrosive bottleneck afflicting economic and social growth worldwide. Griffiths et al. (2009) demonstrate that corruption considerably reduces the interest and desirability to start a new business activity. Many other authors have highlighted the problems created by corruption in different counties; acts of fraud (Cohen et al., 2010; Chwastiak, 2013), health and safety violations (Radin & Calkins, 2006), and tax evasion (Everett et al., 2007; Otusanya, 2011) are just few examples of activities that privilege self-interests over social ones. Corruption is an environmental factor that should have negative effect on people’s actions. In this research we will focus on the effects of corruption perception on the students motivation to be entrepreneurs.

2.3 Theory of Planned Behavior and Hypothesis Development

Literature about entrepreneurial intent has been studied mainly using two models: the model of the entrepreneurial event (SEE) (Shapero & Sokol, 1982) and the theory of planned behavior (TPB) (Ajzen, 1985). The SEE focuses on the individual by including a measure of proactiveness whereas the TPB focuses on the environment by detailing the social setting to contextualize the behavior. For this reason TPB is widely used in literature about entrepreneurial intentions. Several studies used this model because it considers the effects of
social and other external variables on individual behavior. The theory of planned behavior argues that there are three precursors (constructs) to intentions, intentions being the antecedent to behavior (Ajzen, 1985). The precursors are: personal attitude toward the behavior, perceived social norms, and perceived behavioral control. The first and the second reflect the perceived desirability of performing the behavior, while the third reflects perceptions that the behavior is personally controllable. Perceived behavioral control reflects the perceived feasibility of performing the behavior and is thus related to perceptions of situational competence (self-efficacy). TPB details the precursors of each of these attitudes. Indeed, attitude has a behavioral component (i.e. affective and cognitive components) that consists of predispositions to behave in a particular manner (Shaver, 1987). In order to provide a complete view of the theory of planned behavior we provide figure 1.

Figure 1. Ajzen’s Theory of planned behavior (1985)

With reference to the attitude, this construct shows the perceptions of the personal desirability of performing the behavior (Zhao et al., 2005). Attitude depends on individual expectations and beliefs about the outcomes of the behavior. This construct allows us to measure the expectations of people in the sample about their ability in doing something (Shapero & Sokol, 1982). More specifically, it is referred to the degree to which a person has a favorable evaluation of the behavior in question (Ajzen, 1985). Individuals form attitudes about a particular behavior by associating the behavior with the likely outcome that will result. If the outcomes are largely desirable, there will be a stronger intention to perform the behavior. In the case of entrepreneurial intention, attitude toward the behavior can be considered as the desirability of creating a new firm. In the entrepreneurial context, a positive perception of expected outcomes is typically associated with the act of starting one’s own business (Shapero & Sokol, 1982; Zhao et al. 2005; Shook & Bratianu, 2010; Montano & Kasprzyk, 2015; Di Paola et al., 2016). Based on cited authors, the following hypothesis can be advanced:

\[ \text{H}_{1}: \text{The attitude toward the behavior is positively related to entrepreneurial intention.} \]

With reference to the perceived social norms (or normative beliefs), this construct allows to understand the importance of the perceptions of performing a particular behavior (Ajzen, 1985). For example, consider the family expectations about the desirability of becoming a doctor, an accountant or an entrepreneur. However, these normative beliefs also depend on the strength of the motivation to comply with them (Ajzen, 1985). Subjective norms can have different effect on behavioral intention. The research findings about the effect of subjective norms on entrepreneurial intent have been mixed. Krueger et al. (2000) found that the effect of social support is not related to entrepreneurial intent in for North-American students. Autio & Arcs (2001) and Liñán & Chen (2009) carried out a comparative study and also found that social support is weakly correlated with entrepreneurial intent in American students however the opposite is true for Scandinavian students. It should be noted that in contexts with more uncertainty, social support should be an important factor with a significant effect on entrepreneurial intent. It can be stated that students with higher support have more possibility to become entrepreneur. On the basis of further literature, we can state the following hypothesis:

\[ \text{H}_{2}: \text{Subjective norm is positively related to entrepreneurial intention.} \]

Perceived behavioral control (PBC) indicates the perceived self-efficacy of the individual or the individual’s
perceived ability to execute a goal behavior (i.e. to become entrepreneur) (Ajzen, 1985). Self-efficacy is linked to initiating and persisting with the behavior under uncertainty, to setting higher goals, and to reducing threat-rigidity and learned helplessness (Bandura 1986). This construct is important because situational controllability is strongly related to self-perception (Dutton & Ashford, 1993; Krueger & Brazeal, 1994; Harackiewicz et al., 2002; Kolvereid & Isaksen, 2006) and to self-efficacy (Krueger & Dickson, 1994). Entrepreneurship researchers largely ignore the concept of self-efficacy despite its importance in predicting specific behaviors (Strecher et al., 1986; Harackiewicz et al., 2002). Self-efficacy has been associated with opportunity recognition and risk-taking (Krueger & Dickson, 1994; Krueger et al., 2000; Di Paola et al., 2016) as well as career choice (Bandura, 1986; Harackiewicz et al., 2002; Turk & Selcuk, 2009). On the basis of further literature, we can state the following hypothesis:

**H3**: Perceived behavioural control is positively related to entrepreneurial intention.

We integrated TPB with perceived corruption. As stated by other authors (Griffiths et al, 2009) perceived corruption is an external factor that can restrict entrepreneurial activity. Corruption is not only a social pathology but also an economic and political problem (Sevuktekin et al., 2010; Spanò et al., 2016). It includes all activities that abuse public positions for personal use and all situations in which the personal interest prevails over the public one. It can occur in different sectors such as economic (trade policy and privatization), legal (rule of law, independence of judiciary), bureaucratic, administrative and transnational factors, civil liberties, and press freedoms (Li & Bray, 2007; Sevuktekin et al. 2010; Spanò et al., 2017). A strong perception of corruption can create demotivation and cause people to be reluctant about becoming entrepreneurs. People with strong personal values could decide to avoid the problems arising from corrupted systems by choosing to not be self-employed or entrepreneurs.

In Italy, corruption is perceived as a prevalent phenomenon (D’Onza et al. 2016; Spanò et al., 2016; Spanò et al., 2017). Corruption is considered as a major problem in the public sector with certain business activities slowing down the economic growth. The high degree of corruption in Italy is strongly perceived across Europe; the 2014 Transparency International Survey ranked Italy as 69 out of 177 for the degree of perceived corruption. This data has great importance because a high perception of corruption can inhibited entrepreneurial activity (Shin, 2015). According to the author, high levels of corruption means that the playing field is not even therefore it is difficult for firms to reach success and more difficult for new entrepreneurs to establish their ventures so they can decide to not start a new venture at all. According to this statement we can state the following hypotheses:

**H4** Corruption perception has a strong negative effect on students’ intention to be entrepreneurs

**H5** Corruption perception has a strong negative effect on students’ entrepreneurial behavior

The following image shows our model that integrates the theory of planned behavior integrated with perceived corruption.

![Figure 2. Theory of Planned behavior integrated with corruption perception](http://ibr.ccsenet.org)
3. Methodology

3.1 The Questionnaire

Using the Ajzen’s TPB (1985) as a base, we carried out a questionnaire survey in order to understand the students’ intentions to be entrepreneurs considering their perceptions of corruption. The questionnaire was divided into three parts. The first part contained the personal data of the students interviewed. The second part covered the TPB dimensions using 42 different questions: 10 questions for attitude, 10 for subjective norm, 10 for perceived behavioral control, nine for behavioral intentions, and three for behavior. The third part covered the corruption perception between students with three questions. All the questions were quantified using a four-point Likert Scale set from four (strongly agree) to one (strongly disagree). The questionnaire was designed taking into account Ajzen’s (1985) approach. We employed an even scale in order to avoid the risk of central bias (Caldarelli et al., 2016). After this design phase, we disseminated the questionnaire to an initial sample of 45 subjects in order to test the scale.

3.2 Scale Validation

To ensure consistency and unidimensionality of the scales, we used the same approach as Gangwar et al. (2014). First of all, we carried out an initial reliability study and an exploratory factor analysis of principal components (PCA) (Hu & Bentler, 1995, 1998, 1999; Byrne, 2013; Brown, 2015). This procedure was used to suppress indicators with a correlation lower than 0.3, or whose exclusion increased the Cronbach’s Alpha value, which should not be lower than 0.7 (Bland and Altman, 1997). On this basis, we eliminated two factors of SN and one factor of PBC. No other factors were eliminated. Our tests show alpha values of 0.924 for ATT, 0.87 for SN, 0.898 for PBC and 0.861 for CORR. BI and BEHA got acceptable alpha values (0.88 and 0.832). Furthermore, we carried out an exploratory factor analysis using varimax rotation with Kaiser normalization (Kaiser, 1970; McDonald, 1981; Byrd, 2000) in order to verify if all the concepts were formed by just one factor. These factors explain more than 55% of the variance for all factors and it is valuable acceptable.

3.3 Questionnaire Dissemination and Final Sample

After the validation step, the survey was manually disseminated to a sample of 400 business students covering three different Italian universities. We chose business students because of their attitude to be entrepreneurs (Harris & Gibson, 2008). Sample groups were randomly selected during lessons. We disseminated the survey manually in order to avoid the difficulties of obtaining replies associated with other means of communication (i.e.: email, social media, etc.) (Min & Galle, 2003). The dissemination phase lasted for two months. After removing the incomplete forms, we reached a final sample of 350 students with a response rate of 87.5%.

4. Results and Discussion

The current study used Warp PLS and Stata to analyze the data. Following Anderson & Gerbing (1988), we carried out a Confirmatory Factor Analysis (CFA) for the assessment of the model adequacy and used Structural Equation Modeling (SEM) to test causal relationships (Hair et al., 1998).

We assessed model goodness-of-fit and quality indices. We carried out the chi-square. This test is widely used to assess the adequacy of a model; the test results indicate the ability of the model to reflect variance and covariance of the data (Byrne, 2013; Hosmer et al. 2013). To avoid the bias of “sample size” we carried out other fit indices such as goodness of fit index (GFI), adjusted goodness-of-fit index (AGFI), comparative fit index (CFI), normed fit index (NFI), relative fit index (RFI), average block VIF (AVIF), average full collinearity VIF (AFVIF), average path coefficient (APC) and average adjusted R-square. The results of structural equation modeling obtained for the proposed conceptual model revealed a ratio of chi-square of 557 with p < 0.001.

We obtained the following results: a goodness-of-fit index (GFI) of 0.91 (ideal > 0.90), adjusted goodness-of-fit index (AGFI) of 0.83 (considered good if > 0.8), comparative fit index (CFI) of 0.93 (ideal if > 0.9), normed fit index (NFI) of 0.91 (ideal if > 0.9), relative fit index (RFI) of 0.90 (ideal if > 0.9) and, finally, root mean square error of approximation (RMSEA) of 0.05 (ideal < 0.08). We also carried out the average block VIF (AVIF) obtaining a result of 1.567 (considered acceptable if <= 5, ideally <= 3.3), the average full collinearity VIF (AFVIF) was 2.012 (acceptable with values less or equal to 5, ideally <= 3.3). Finally we have a R-squared contribution ratio (RSCCR) of 1.000 (acceptable if >= 0.9, ideally = 1). The index of fit indicates a good model fit (Bagozzi et al., 1991; Hair and et al., 1998, 1999; Henseler et al., 2015) suggesting that the overall model fit is acceptable.

In order to understand the model prediction capacity, we measured a measure of average adjusted R-squared (AARS). It was of 0.454 (with p < 0.001) meaning that the variables used explain 45.4% of the total variance or entrepreneurial intention. After the test of the goodness of fit, we carried out a structural equation modeling
The following figure (Figure 3) and table (Table 2) show the results of the structural equation model and the findings in light of the formulated hypothesis.

Figure 3. Results of structural equation model

Table 2. Research results

<table>
<thead>
<tr>
<th>No.</th>
<th>Hypothesis</th>
<th>Path Coefficient</th>
<th>Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>The attitude toward the behavior is positively related to entrepreneurial intention.</td>
<td>0.12</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>Subjective norm is positively related to entrepreneurial intention.</td>
<td>0.40</td>
<td>Supported</td>
</tr>
<tr>
<td>H2</td>
<td>Perceived behavioral control is positively related to entrepreneurial intention.</td>
<td>0.25</td>
<td>Supported</td>
</tr>
<tr>
<td>H3</td>
<td>Corruption perception has a strong negative effect on students intention to be entrepreneurs</td>
<td>-0.37</td>
<td>Supported</td>
</tr>
<tr>
<td>H4</td>
<td>Corruption perception has a strong negative effect on students entrepreneurial behavior</td>
<td>-0.68</td>
<td>Supported</td>
</tr>
</tbody>
</table>

Attitude (ATT) has a low positive effect on entrepreneurial intentions (EI) \( b = 0.12 \) with \( p < 0.01 \). This means that the personal perception to perform the behavior does not have a strong effect on students’ intentions to become entrepreneurs. Our results concur with Davidsson (1995), but disagree with Douglas & Shepherd (2002). Phan et al. (2002) found that ATT should be the stronger predictor of interest in self-employment and entrepreneurship. Despite a weak correlation between ATT and EI, there is a strong entrepreneurial intention in Italian students. Other studies show a low path coefficient for ATT that it is considered as a poor predictor. The main reason for this is that attitude includes the students’ preference for self-employment so, in a difficult context, they may prefer to make their own luck and become self-employed (Van Gelderen et al., 2008). Thus, hypothesis 1 is fully supported.

With reference to subjective norm (SN), our results show a strong and statistically significant relationship with entrepreneurial intentions \( b = 0.40 \) with \( p < 0.01 \). SN is the main factor that indicates the students’ intentions to be entrepreneurs. These results are not in agreement with the conclusions drawn by Turker & Selcuk (2009), according which social support does not have a great impact on entrepreneurial intentions and behavior. A possible explanation of these divergent results is that in Italy there is a lot of social pressure exercised by the people that students consider to be important in their lives, perhaps more so than many other countries. Our findings reveal that Italian students place great importance on the perceptions of what the people close to them (i.e. their families) think about engaging in entrepreneurial activity. Italian students could decide to be entrepreneurs if they perceived strong social support. This happens because students can have the “fear of failure” which can be partially mitigated by the support of the social group. Therefore, hypothesis 2 is supported.
We found that perceived behavioral control (PBC) has a positive relationship with entrepreneurial intentions (b = 0.25 with p > 0.01). According to these results the students have a good degree of the perceived ability to reach a pre-set goal. More specifically, Italian students have a good perception of their self-efficacy and, in their own opinions; they have the capacity to be entrepreneurs. Other empirical evidence (Bagozzi & Kimmel, 1995; Armitage & Conner, 2001) demonstrates that the PBC is closely associated with commitment measures, such as behavioral expectations. Hypothesis 3 is supported.

Finally, with reference to perceived corruption (CORR) our results show the existence of a strong and statistically relevant relation with behavioral intention (BI) (b = 0.37 with p < 0.01) and with behavior (BEHA) (b = -0.68 with p < 0.01). These results reinforce the position of Melgar et al. (2010) and Enstrin et al. (2013) that corruption can be an inhibitor to entrepreneurial intention. Also, our results agree with the general idea according whom Italian students are limited in their work choices by “external variables”. Indeed, our results show that the perceived level of corruption significantly reduces the behavioral intention so it is possible to state that corruption damages significantly the entrepreneurial activity of a region (Spanò et al., 2017). Also, it is possible to state that with a higher level of corruption perception there is a lower intention to become an entrepreneur. This statement is compliant with the findings of Azmat and Samaratunge (2004) and Cohen et al. (2010). As result, hypotheses 4 and 5 are fully supported.

5. Conclusions

This study investigates the effect of the perception of corruption on students’ intentions to become entrepreneurs. While there are several studies that examined the determinants of entrepreneurial intentions there is a lack of research focusing on the relationship between entrepreneurial intentions and the entrepreneurial inhibitors. In this study we aim to fill this gap, using the theory of planned behavior integrated with corruption perception. We test the model on a sample of 350 Italian students.

Our results demonstrate that the perceived level of corruption has a negative effect on entrepreneurial intentions, significantly reducing entrepreneurial behavior. This means that, in the Italian context, the perception of corruption significantly reduces students’ intention to be entrepreneurs (or self-employed). Furthermore, our results show that subjective norm is the main factor contributing to Italian students’ entrepreneurial intentions. Also, our results show that subjective norms (SN) and perceived behavioral control (PBC) are significant predictors of individual motivations to engage in entrepreneurial activity. These results concur with previous scholarly research and also contribute further knowledge about entrepreneurial inhibitors. We found a significant drop in entrepreneurial intention upon introducing the perceived corruption. These results indicate that students are not interested in entrepreneurial careers while the degree of perceived corruption is high. A possible explanation of this phenomenon is that, despite the existence of strong social support, Italian students are not interested in starting a new venture if they know that there is an unfair play due to the existence of a strong corruption.

This study has several implications for regulators and researchers.

For regulators, the results of this study can shed light on some important issues related to entrepreneurial intentions in Italy. On one hand, we show that SN and PBC have a significant influence on behavioral intentions (BI), revealing a good personal propensity of students to be entrepreneurs. However, on the other hand our findings show that perception of corruption causes a drop in students’ entrepreneurial behavior. This finding is particularly important for regulators because it highlights the need to take action towards reducing the level of corruption to support economic development through the start-up of new businesses.

For researchers, this study attempts to introduce a new variable in the theory of planned behavior (Ajzen, 1985). Hence, the proposed model makes an important contribution to the literature on entrepreneurial intention by adding entrepreneurial inhibitors as a new variable to the existing model. Furthermore, this study provides initial evidence to develop a deeper understanding of the causal relationship between entrepreneurial intentions and inhibitors.

This study has two main limitations. Firstly, although behavioral intention is the most important predictor of intention (Armitage & Conner, 2001; Ajzen, 1991; Ajzen & Fishbein, 1980), this intention does not always translate to actual behavior (De Groot & Steg, 2007). This is a typical limitation of the theory of planned behavior. Secondly, our conclusions are based on cross-sectional data and thus our model represents only a snapshot of the actual situation. In future research, we should expand our present model by using a longitudinal study to investigate students’ entrepreneurial intentions during different time periods, thus allowing us to make comparisons and provide greater insight into the phenomenon. Lastly, there could be cultural and national limitations to these findings due to cultural differences such as personal values, personal skills. This issue requires
Further investigation; it will be helpful to replicate this study on a wider scale with different national cultures in order to diversify the findings.

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