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Age of the entrepreneurial decision: Differences among developed, developing, and non-developed countries

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Abstract

Although entrepreneurship is widely considered an engine of growth, it is not clear whether policies, de facto, promote it, and knowing which individuals are willing to become entrepreneurs could help in the design of those policies. In this paper, we study how individuals become entrepreneurs at different ages, according to the degree of development of the country of residence. We make use of the GEM 2014 Adult Population Survey data, against a background where social norms are controlled, to find that the relationship between entrepreneurship and age follows an inverted U-shape, according to machine learning techniques, and that younger individuals are the most willing to become entrepreneurs.

Keywords: entrepreneurship; age; GEM data

JEL Classification Codes: L26, J10, C21

1. Introduction

Entrepreneurship is not only a labor status for those individuals who do not want or cannot find an employer, but also a complex, national phenomenon and a model of life (Orazem et al., 2015; Coduras et al., 2016; Viinikainen et al., 2017). Many entrepreneurs use their skills to innovate and drive technological change (Schumpeter, 1934; Holmes and Schmitz, 1990; Braunerhjerlm et al., 2010). In this way, entrepreneurship promotes growth and development (Acs, 1992). In fact, entrepreneurial activity is currently a priority for European politicians and policymakers (e.g., the ‘Entrepreneurship 2020 Action Plan’). However, as argued in Naudé (2016), the effectiveness of policies is not clear. Then, it would certainly help to know what are the characteristics of those individuals who are the most willing to become entrepreneurs. The literature has pointed to age being one of the most important of these characteristics, with reference to ‘a golden age’ of entrepreneurship (Parker, 2004). In addition, age is correlated with other determinants, such as social networks. Against this background, our paper empirically addresses the

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age at which individuals decide to become entrepreneurs in developed, developing, and non-developed economies, using resampling techniques.

Prior studies have analyzed entrepreneurial activity in a variety of settings. In general, entrepreneurship is derived from the necessity for income, opportunity, the sense of vocation, and a desire to innovate (Minniti, 2005; Terjesen and Szerb, 2008; Dawson et al., 2015; Viinikainen et al., 2017; Molina and Velilla., 2016). Several authors have analyzed the positive effects of formative skills (Kotsova, 1997; Minniti, 2009; Levie and Autio, 2013), oral and intergenerational transmissions (Holcomb et al., 2009; Blumberg and Pfann, 2015; Viinikainen et al., 2017), or social capital and living standards (Roskruge et al., 2016). Authors have often found that entrepreneurship is related to youth (Schott and Bagger, 2004; Levesque and Minniti, 2006; Kelley, 2009), although there is no consensus on this (e.g., Blanchflower, 2000; Molina et al., 2016; Artz, 2016). However, that relationship has been usually dealt as a factor of control and, to the authors' knowledge, there are no studies focusing on how age determines the entrepreneurial activity of individuals using recent data from the Global Entrepreneurship Monitor.

The Global Entrepreneurship Monitor (GEM) is "the world's foremost study of entrepreneurship". Making use of the GEM Adult Population Survey (APS) data for the year 2014, we examine the age of entrepreneurs dividing our sample into non-developed, developing and developed countries. We use machine learning techniques based on bootstrapping prediction errors to determine the degree of that relationship, since if it is not adequately estimated, results and conclusions may be inaccurate (Breiman, 2001). Despite the importance of machine learning techniques in other fields of knowledge, such as Biology or Epidemiology, these tools have been under-used in Business and Economics and, in particular, in the study of entrepreneurship. Nonetheless, its application may lead to accurate models to explain complex social problems, as in the case of entrepreneurial activity. We then estimate a logit model to distinguish the role of age from that of gender, education, peer effects, managerial skills, the recognition of opportunities, and risk aversion.

Our contribution to the literature is twofold. We first analyze the relationship between age and entrepreneurial activity in a micro-economic setting using resampling techniques, to determine the degree of the relationship. Second, our results suggest a polynomial "U-inverted" shape, independently of the reason to become an entrepreneur. This finding is robust to different specifications, such as including age as a category. These results may be useful in an academic and research setting, but can also help policy-makers design more effective policies to promote entrepreneurship.

2. Methods

First, we determine at what degree is age related to entrepreneurial activity, since if this relationship is not correctly addressed, results may be unaccurate. We estimate this relationship using machine learning techniques based on resampling methods and bootstrapped prediction errors (see Gimenez-Nadal et al. (2017) for a discussion about these methods, and a detailed application to entrepreneurship data).

We divide our sample into a training set and a test set, in order to avoid overfitting. We estimate the parameters of a logistic regression model of entrepreneurial activity in terms of a first order polynomial on ages over the training set, and then estimate the mean absolute error over the test set. We bootstrap the process to avoid selection biases, and define the averaged mean absolute error of prediction¹. The process is then repeated iteratively, but including polynomials

¹ The mean absolute prediction errors are defined as $\frac{1}{2,000} \sum_{j=1}^{2,000} \left(\frac{1}{N_j} \sum_{i \in T_j} |Y_i - \hat{p}_i| \right)$, where T_j represents the test set of the j -th iteration, N_j is the number of individuals of such test set, and \hat{p}_i is the estimated outcome. Errors have been estimated over test sets using 2,000 iterations.

of increasing degree, and estimating the prediction error associated to each polynomial. According to this methodology, and given that the prediction power of models is a powerful tool to measure its accuracy, independently of the hypotheses of the model (e.g., linearity, multicollinearity, heteroskedasticity, or normality of residuals), the lower the prediction error, the greater the accuracy of the model (i.e., the “better” the relationship between the dependent variable and the set of explanatory variables). Furthermore, given that prediction errors are estimated over test sets, we avoid overfitting problems (other way, the prediction error would always decrease with the number of explanatory variables)².

Once the degree of the relationship between entrepreneurship and ages is calculated, we estimate the following logit model:

$$\ln\left(\frac{p_i}{1-p_i}\right) = \beta_0 + \beta_1 P(\text{Ages}_i) + \beta_2' X_i + \varepsilon_i, \quad (1)$$

where p_i is the probability of being an entrepreneur, $P(\text{Ages})$ represents the polynomial on ages that best fits in the model, X is a set of additional explanatory variables, and ε_i represents unmeasured factors.

3. Data

We use the GEM APS data for the year 2014 to analyze the relationship between age and entrepreneurial activity in developed, developing, and non-developed countries. The database is elaborated annually by GEM and contains harmonized cross-sectional micro-data about entrepreneurial-related characteristics (<http://www.gemconsortium.org/about/wiki>).

We restrict our sample to those individuals who reported age. This leaves us with 188,291 individuals, of which 22,973 are entrepreneurs. Table 1 shows summary statistics of variables, by degree of development of the country of residence³. The dummy variable TEA identifies entrepreneurs, i.e., whether individuals are about to start, or have started an entrepreneurial activity in the past 42 months. 8.3% of individuals in developed countries are entrepreneurs, in contrast with 14.7% in developing countries, and 25.0% in non-developed. The average age of respondents (entrepreneurs) is 42.7 (39.4) years in the developed countries, 38.9 (36.6) in the developing, and 34.4 (33.8) in the non-developed, with these differences being significant at standard levels.

The GEM data contains information about the different motivations for becoming an entrepreneur, a classification that has generated much interest in the literature (Reynolds et al., 2003). This classification often distinguishes between opportunity-driven entrepreneurs, and necessity-driven entrepreneurs (i.e., individuals who take advantage of an opportunity to start a business, and individuals who start a business because do not find an employer). That way, dummy variables TEA necessity and TEA opportunity identify those necessity-driven and opportunity-driven entrepreneurs, respectively. Furthermore, we also define the dummy TEA innovation, that characterizes those entrepreneurs who offer innovative products or use new technologies in their business. Table 1 shows how most of the entrepreneurs are opportunity-driven, regard-

² See Gimenez-Nadal et al. (2017) for a review of this techniques, against classical measures such as mean squared errors, R2, adjusted-R2, AIC, or BIC.

³ We set as developed countries: USA, Russia, Greece, Netherlands, Belgium, France, Spain, Hungary, Switzerland, Sweden, Norway, Poland, Germany, Mexico, Chile, Japan, Korea, China, Canada, Portugal, Luxembourg, Ireland, Finland, Estonia, Slovenia, Czech Republic, Slovakia and Israel. As developing: South Africa, Romania, Peru, Argentina, Brazil, Colombia, Malaysia, Indonesia, Philippines, Singapore, Thailand, Vietnam, India, Iran, Lithuania, Latvia, Croatia, Bosnia and Herzegovina, Macedonia, Guatemala, Panama, Ecuador, Suriname, Uruguay, Puerto Rico, Trinidad and Tobago, Jamaica and Taiwan. Finally, Libya, Ghana, Nigeria, Angola, Uganda, Malawi and Botswana are considered non-developed.

less of the region analyzed. However, the presence of necessity-driven entrepreneurs is comparatively higher in developing and non-developed countries. Finally, innovative entrepreneurs are relevant in all the regions, although have more relative presence in developed countries. We will analyze separately these types of entrepreneurs, to study potential differences between them.

The GEM APS data allows us to defined other variables that may affect the decision of individuals to become entrepreneurs, such as gender, the level of education, the self-perception of entrepreneurial skills, the fear of failure, knowing other entrepreneurs, and considering that there are good opportunities to entrepreneur. The relevance of these explanatory variables, which are among the strongest determinants of entrepreneurship at the individual level, has been widely supported by the literature. Then, its inclusion is important in terms of observed heterogeneity, but also as moderating controls in the relationship between ages and entrepreneurship.

Table 1. Summary statistics of variables.

VARIABLES	Developed		Developing		Non-developed		p-val.
	Mean	S.Dev.	Mean	S.Dev.	Mean	S.Dev.	
TEA	0.083	0.276	0.147	0.354	0.250	0.433	(<0.01)
TEA necessity	0.018	0.134	0.041	0.198	0.070	0.255	(<0.01)
TEA opportunity	0.060	0.237	0.104	0.305	0.177	0.382	(<0.01)
TEA innovation	0.051	0.220	0.082	0.274	0.127	0.333	(<0.01)
Age	42.79	14.61	38.92	13.88	34.41	12.34	(<0.01)
Gender	0.488	0.500	0.478	0.500	0.489	0.500	(<0.01)
Primary ed.	0.050	0.217	0.161	0.368	0.349	0.477	(<0.01)
Secondary ed.	0.634	0.482	0.591	0.492	0.507	0.500	(<0.01)
University ed.	0.286	0.452	0.170	0.376	0.131	0.337	(<0.01)
Know an entrepreneur	0.319	0.466	0.376	0.484	0.612	0.487	(<0.01)
Opportunities to entrepr.	0.266	0.442	0.404	0.491	0.657	0.475	(<0.01)
Skills to entrepr.	0.433	0.495	0.523	0.499	0.747	0.435	(<0.01)
Fear of failure	0.435	0.496	0.376	0.484	0.247	0.431	(<0.01)
N. Observations		99,298		73,086		15,907	

Note: The sample (GEM 2014 Global Individual) is restricted to individuals who reported age. "Age" is measured in years. TEA indexes are measured in percentage. Reference category for "Gender" is women. Kruskal-Wallis test P-values for the differences in parentheses.

4. Results

Results of the machine learning technique to study the degree of the relationship between ages and entrepreneurship are shown in Table 2. We find that a polynomial of the second order gives us the best results, in terms of accuracy-difficulty trade-offs⁴. Adding a third degree would barely improve the accuracy, but meaningfully increases the difficulty of the model.

Table 3 shows the results of estimating Eq. 1. Estimations are restricted to non-developed countries (Columns 1 and 2), developing countries (Columns 3 and 4), and developed countries (Columns 5 and 6). In Columns (1), (3) and (5) we only include the linear term for ages, while in Columns (2), (4) and (6), we estimate the complete model. In all cases, the relationship between age squared and the probability of being an entrepreneur is negative. This suggests a "U-inverted" relationship between ages and the entrepreneurial activity of individuals, being stronger by a small margin in developing and developed countries⁵.

⁴ The variable age squared is defined as the square of age, and then divided by 100 to re-scale it.

⁵ An alternative approach would be to introduce age as a category. This specification would be more flexible than the use of polynomials on age, and similar results would indicate the accuracy of the second order polynomial. Table A1 in Appendix A shows estimates of Eq. 1 under this empirical approach, where we define the following age categories: <21

Table 2. Mean absolute errors associated with age variables.

	Age	Age ²	Age and Age ²
Prediction error	0.211	0.203	0.201

Note: The sample (GEM 2014 Global Individual) is restricted to individuals who reported age. Age and Age² are measured in years. Mean absolute errors are estimated using 2,000 iterations.

Table 3. Estimates of the coefficients, by degree of development.

VARIABLES	(1) Non- developed	(2) Non- developed	(3) Developing	(4) Developing	(5) Developed	(6) Developed
Age	-0.003* (0.002)	0.072*** (0.010)	-0.011*** (0.001)	0.077*** (0.006)	-0.017*** (0.001)	0.075*** (0.006)
Age ²	-	-0.099*** (0.013)	-	-0.110*** (0.007)	-	-0.109*** (0.007)
Gender	-0.072* (0.038)	-0.069* (0.038)	0.163*** (0.022)	0.171*** (0.022)	0.167*** (0.025)	0.174*** (0.025)
Secondary ed.	0.155*** (0.042)	0.154*** (0.042)	0.097*** (0.028)	0.100*** (0.028)	0.011 (0.051)	0.005 (0.051)
University ed.	0.135** (0.062)	0.095 (0.062)	0.253*** (0.035)	0.230*** (0.035)	0.024 (0.053)	-0.011 (0.053)
Know an entrepreneur	0.556*** (0.043)	0.557*** (0.043)	0.652*** (0.023)	0.632*** (0.023)	1.104*** (0.026)	1.082*** (0.026)
Opportunities to entrepr.	0.324*** (0.045)	0.317*** (0.045)	0.568*** (0.023)	0.569*** (0.023)	0.696*** (0.025)	0.722*** (0.025)
Skills to entrepr.	1.048*** (0.059)	1.024*** (0.059)	1.214*** (0.027)	1.180*** (0.027)	1.553*** (0.030)	1.505*** (0.030)
Fear of failure	-0.291*** (0.047)	-0.290*** (0.047)	-0.161*** (0.024)	-0.177*** (0.024)	-0.540*** (0.027)	-0.563*** (0.027)
Constant	-2.435*** (0.090)	-3.687*** (0.189)	-2.832*** (0.051)	-4.371*** (0.109)	-3.356*** (0.070)	-5.045*** (0.130)
Observations	15,907	15,907	73,086	73,086	99,298	99,298

Note: Standard errors in parentheses. The sample (GEM 2014 Global Individual) is restricted to individuals who reported age. Dependent variable is the dummy TEA. Age and Age² are measured in years. Reference category for "Gender" is women. *Significant at the 90% level. **Significant at the 95% level. ***Significant at the 99% level.

Regarding education, in non-developed countries, individuals who reached only secondary education are the most likely to be entrepreneurs, while in developing countries this happens with individuals who reached University. In the developed economies, education appears not to affect entrepreneurship. There is a positive and significant effect of peer effects (variable "Know an entrepreneur"), entrepreneurial opportunities and managerial skills, while the fear of failure is negatively related to entrepreneurship.

We repeat estimations distinguishing between necessity-driven, opportunity-driven, and innovative entrepreneurs in Table 4. Columns (1), (2), and (3) contain results for the cases of necessity, opportunity, and innovation in non-developed countries, respectively. Columns (4), (5), and (6) are equivalent for the case of developing countries, and Columns (7), (8), and (9) refer to the developed countries. The estimated relationships between ages and entrepreneurial activity are qualitatively unchanged from the previous estimates in Table 3, and confirm the

years, 21-30 years, 31-40 years, 41-50 years, 51-60 years, and >60 years (which is the reference category). We observe that results are qualitatively similar, as we see the "U-inverted" through the higher coefficients associated with middle-age categories (between 21 and 40 years old), especially among individuals in developing and developed economies.

“U-inverted” pattern estimated in Table 3. Parameters are in general robust, although the effects of education varies across types of entrepreneurship and groups of countries, highlighting the role of human capital, especially in individuals who pretend to innovate, or take advantage of a business, against individuals who entrepreneur due to subsistence.

Table 4. Estimates of the coefficients, by kind of entrepreneurship.

<i>(a) Non-developed countries.</i>			
<i>VARIABLES</i>	(1) <i>Necessity</i>	(2) <i>Opportunity</i>	(3) <i>Innovation</i>
Age	0.047*** (0.016)	0.071*** (0.012)	0.059*** (0.013)
Age ²	-0.065*** (0.021)	-0.098*** (0.015)	-0.079*** (0.017)
Gender	-0.335*** (0.064)	0.059 (0.043)	-0.031 (0.049)
Secondary ed.	-0.311*** (0.066)	0.360*** (0.049)	0.281*** (0.055)
University ed.	-1.096*** (0.136)	0.521*** (0.068)	0.425*** (0.076)
Know an entrepreneur	0.339*** (0.072)	0.572*** (0.050)	0.664*** (0.058)
Opportunities to entrepr.	0.221*** (0.077)	0.317*** (0.052)	0.194*** (0.058)
Skills to entrepr.	0.814*** (0.102)	0.999*** (0.070)	0.777*** (0.076)
Fear of failure	-0.218*** (0.080)	-0.270*** (0.053)	-0.151** (0.059)
Constant	-3.910*** (0.309)	-4.350*** (0.218)	-4.298*** (0.243)
Observations	15,907	15,907	15,907
<i>(b) Developing countries.</i>			
<i>VARIABLES</i>	(1) <i>Necessity</i>	(2) <i>Opportunity</i>	(3) <i>Innovation</i>
Age	0.079*** (0.009)	0.070*** (0.006)	0.066*** (0.007)
Age ²	-0.104*** (0.012)	-0.105*** (0.008)	-0.096*** (0.009)
Gender	-0.028 (0.038)	0.245*** (0.026)	0.206*** (0.028)
Secondary ed.	-0.235*** (0.043)	0.300*** (0.035)	0.239*** (0.038)
University ed.	-0.856*** (0.068)	0.647*** (0.040)	0.534*** (0.044)
Know an entrepreneur	0.399*** (0.039)	0.658*** (0.026)	0.693*** (0.029)
Opportunities to entrepr.	0.238*** (0.039)	0.648*** (0.026)	0.555*** (0.029)
Skills to entrepr.	0.929*** (0.046)	1.191*** (0.032)	1.186*** (0.036)
Fear of failure	0.027 (0.040)	-0.242*** (0.028)	-0.172*** (0.031)
Constant	-5.100*** (0.185)	-4.929*** (0.128)	-5.099*** (0.140)
Observations	73,086	73,086	73,086

(c) *Developed countries.*

<i>VARIABLES</i>	(1) <i>Necessity</i>	(2) <i>Opportunity</i>	(3) <i>Innovation</i>
Age	0.098*** (0.012)	0.069*** (0.007)	0.051*** (0.007)
Age ²	-0.128*** (0.014)	-0.104*** (0.008)	-0.080*** (0.008)
Gender	-0.040 (0.048)	0.259*** (0.029)	0.160*** (0.031)
Secondary ed.	-0.183** (0.087)	0.182*** (0.065)	0.041 (0.065)
University ed.	-0.600*** (0.095)	0.322*** (0.066)	0.062 (0.067)
Know an entrepreneur	0.808*** (0.050)	1.107*** (0.030)	1.023*** (0.032)
Opportunities to entrepr.	0.133*** (0.051)	0.841*** (0.029)	0.859*** (0.031)
Skills to entrepr.	1.285*** (0.058)	1.528*** (0.037)	1.516*** (0.039)
Fear of failure	-0.219*** (0.051)	-0.647*** (0.032)	-0.553*** (0.034)
Constant	-6.428*** (0.259)	-5.629*** (0.154)	-5.255*** (0.158)
Observations	99,298	99,298	99,298

Note: Standard errors in parentheses. The sample (GEM 2014 Global Individual) is restricted to individuals who reported age. Dependent variable is the dummy TEA. Age and Age2 are measured in years. Reference category for "Gender" is women. *Significant at the 90% level. **Significant at the 95% level. ***Significant at the 99% level.

These results are in favour of several studies that point towards young workers being the engine of new firm creation, and there is a range of explanations behind this fact. First, it may be a inherit effect of ages, given that younger individuals are more prone to assume risks and tend to show a lower aversion to risk than older workers. This explanation is related to the work of Bönthe et al. (2009), who study the relationship between entrepreneurship, regional age structure, and age-specific peer effects in Germany⁶. Second, age has important implications on several aspects, such as health, wealth, individual and family finances, or specific managerial and/or technical skills, which are important determinants of entrepreneurial activity. The dynamics of these attributes through the life-cycle of individuals may determine that start a business is preferred at youth. Further, social networks may be more prevalent at specific ages, facilitating access to resources and information, and providing psychological support (Stuart and Sorenson, 2005; Nanda and Sorenson, 2007). Finally, time allocations of individuals are sensitive to age and, then, in a microeconomic setting, individuals maximize their utility allocating time differently at youth and at adulthood (Wang and Gimenez-Nadal, 2018). Hence, as argued in Levesque and Minniti (2006), young workers allocate more time to firm creation tasks than do older workers. Further empirical work is needed in this line to provide empirical support to this result.

⁶ From a theoretical point of view, the roles of space, and regional age, in the decision to be an entrepreneur is of great importance. The study of regional age addresses how social networks and peer effects affect the probability of establishing a business, conditioned to the age of individuals, and then to age-specific attributes. The role of peer effects on entrepreneurial activity has been widely studied in the literature. However, the relationship between regional age and entrepreneurship is a topic that requires further research, using data with available information at the regional level. This type of analysis is beyond the focus of this paper.

5. Concluding remarks

This paper analyses age differences in the entrepreneurial activity of individuals, using the GEM 2014 APS data and machine learning techniques, which have been underused in this field. We find that age and the probability of entrepreneur follow an “U-inverted” shape, in its negative slope. This relationship is invariant to the motivation of entrepreneurs, i.e., holds for necessity- and opportunity-drive entrepreneurs, and also for innovative entrepreneurs. Furthermore, we find that gender, education, skills, fear of failure, and peer effects are also significantly related to entrepreneurial activity.

The limitations of our study are the complexity of the entrepreneurial phenomenon and, therefore, the presence of unobserved heterogeneity. Because our data is cross-sectional, our results must deal with reverse causality problems, and then are based on conditional correlations. Furthermore, it may be that a single pattern cannot fit every region or even every individual, and further research using non-quantitative analysis is required (e.g., Coduras et al., 2016). In addition, estimation results are based on logistic regression models, which measure linear relationships, and then it may be non-linear patterns that cannot be captured through these quantitative techniques. Finally, it is important to note that results rely on the definition of entrepreneurs of the GEM. Although this definition is standard in the literature using GEM data, different definitions of entrepreneurs (e.g., self-employed workers, or business owners) may lead to different results.

Our results shed light on the analysis of entrepreneurial activity, from the point of view of individuals, using machine learning bootstrapping techniques based on prediction errors. Policy-makers should also take our results into account in attempting to promote entrepreneurship and economic growth, since they indicate which individuals are the most likely to become entrepreneurs in non-developed, developing, and developed countries. First, they may create policies to encourage entrepreneurship specifically at younger ages, as individuals appear to be more likely to become entrepreneurs then. This could help to reduce youth unemployment (especially in economies in the South of Europe, such as Greece, Spain, and Italy), provide experience and specific managerial skills to younger workers, and promote technological change in developing and non-developed countries. Second, entrepreneurship among the third-age cannot be considered a marginal activity, and specific policies aimed at promoting start-ups in later life may be especially important in increasing the wealth and welfare of older workers. In particular, given the significant population ageing in developed economies, third-age entrepreneurship may help to support social security systems. This could help policy makers to devise and improve the efficiency of policies designed to encourage individuals to be or become entrepreneurs.

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Appendix A

Table A1. Estimates including age as actegories.

<i>VARIABLES</i>	(1) <i>Non- developed</i>	(2) <i>Developing</i>	(3) <i>Developed</i>
<i>Age categories:</i>			
< 21 years	-0.022 (0.145)	0.442*** (0.074)	0.588*** (0.087)
21-30 years	0.511*** (0.133)	0.885*** (0.061)	1.080*** (0.060)
31-40 years	0.530*** (0.134)	0.864*** (0.061)	1.139*** (0.059)
41-50 years	0.354** (0.137)	0.752*** (0.062)	0.962*** (0.059)
51-60 years	0.183 (0.144)	0.454*** (0.066)	0.620*** (0.062)
<i>Gender</i>	-0.067* (0.038)	0.171*** (0.022)	0.176*** (0.025)
<i>Secondary ed.</i>	0.159*** (0.042)	0.106*** (0.028)	0.008 (0.051)
<i>University ed.</i>	0.086 (0.062)	0.226*** (0.035)	-0.018 (0.053)
<i>Know an entrepreneur</i>	0.553*** (0.043)	0.636*** (0.023)	1.085*** (0.026)
<i>Opportunities to entrepr.</i>	0.320*** (0.045)	0.570*** (0.023)	0.719*** (0.025)
<i>Skills to entrepr.</i>	1.021*** (0.059)	1.184*** (0.027)	1.505*** (0.030)
<i>Fear of failure</i>	-0.289*** (0.047)	-0.173*** (0.024)	-0.562*** (0.027)
<i>Constant</i>	-2.907*** (0.141)	-3.958*** (0.065)	-4.879*** (0.076)
<i>Observations</i>	15,907	73,086	99,298

Note: Standard errors in parentheses. The sample (GEM 2014 Global Individual) is restricted to individuals who reported age. Dependent variable is the dummy TEA. Reference category for “Age categories”: >60 years. Reference category for “Gender” is women. *Significant at the 90% level. **Significant at the 95% level. ***Significant at the 99% level.