

Volume 2, Number 1, 203-231, January-June 2017

doi: 10.1344/jesb2017.1.j027

Esther Hormiga
Universitat de Barcelona (Spain)
Connie Hancock
University of Chester (U.K.)
Natalia Jaría-Chacón
Universitat de Barcelona (Spain)

# Going it Alone or Working as Part of a Team: The Impact of Human Capital on Entrepreneurial Decision Making

#### Abstract

This paper endeavours to measure the effect that human capital has on the decision taken by the entrepreneur to pursue new venture creation either in a lone capacity or collaboratively. This study applies a logit model to investigate the research relationships. The results show that three factors (experience, social perception and extrinsic motivation) are relevant in the decision to initiate a new venture either in a lone capacity or as part of a collaborative undertaking. The results indicate that previous experience holds the greatest significance on the decision taken by entrepreneurs to 'go it alone', with factors relating to social perception and extrinsic motivation chiefly predicting a decision to work collaboratively. The findings of this study provide new insight and evidence with regard to the factors that influence a key decision in the start-up process: that of continuing in a lone capacity, or proceeding as part of an entrepreneurial team.

Keywords: Human Capital; Entrepreneurial Team; Entrepreneurial Decision; Lone Entrepreneurship

Corresponding author: e-mail: ehormiga@ub.edu

Received 04 January 2017 - Accepted 30 January 2017

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doi: 10.1344/jesb2017.1.j027

Introduction

Significant numbers of studies into entrepreneurial endeavour over the years have considered

the entrepreneur as an individual, acting in a lone capacity (Lechler 2001). However, recent

research reflects an increasing interest in collaboration between an entrepreneurial team. An

increasing number of entrepreneurs decide to undertake business activities as part of a team

and to pursue complementarity in order to support and balance the risk and undertaking of

new business. Thus, an entrepreneurial team is defined as the group of people involved in the

creation and management of a new venture (Forbes et al. 2006).

Several studies have suggested that firms founded and managed by teams are on average more

successful than firms founded and managed by individuals (Lechler 2001; Vyakarnam and

Handelberg 2005; Kamm et al. 1990; Roure and Maidique 1986). Forming a new company as

a group serves to decrease the level of uncertainty, spread responsibility, minimise risk and

more effectively leverage support. In this context, literature on entrepreneurship has

confirmed the importance of the collaborative entrepreneurship phenomenon (Ribeiro-Soriano

and Urbano 2009).

Despite the benefits that working as part of a team brings (Zhou et al. 2015), many

entrepreneurs prefer to create a business through their own auspices and in the literature

related to this field there is a lack of discussion about why or which factors influence an

individual to start a project alone or work as part of an entrepreneurial team. A decision to

pursue entrepreneurial endeavour in a lone capacity does not indicate an inability to work as,

or contribute to a team, simply that the decision to retain control of company strategy and

operations rather than share ownerships and control. Thus, we ask, which factors influence the

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decision making process?

Online ISSN: 2385-7137

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doi: 10.1344/jesb2017.1.j027

This paper will consider the impact that human capital has on the different choices made by

entrepreneurs towards initiating a new venture; lone venture or group endeavour. To achieve

this objective, the empirical analysis carried out consisted of a logit regression model, with

the entrepreneur's decision as dependent variable. Following this introduction, the article is

structured in four sections. The first section sets out the theoretical framework that will be

utilised to analyse approaches towards the formation of an entrepreneurial team and the

influence of the entrepreneur's human capital in the decision making process. The

methodology of the work is addressed in section three. Section four includes a demonstration

and discussion of the results obtained with logit regression models. Finally, the main

conclusions, future lines of research and implications are presented.

Theoretical framework

The decision to belong to a group: An application to an entrepreneurial team

Groups are formed in an effort to secure particular outcomes and objectives (Cartwright and

Zander 1968; Burn 2004; Ben-Hafaiedh-Dridi 2010). In so forming, a decision has been taken

that a group will more effectively and efficiently secure the targeted outcomes than an

individual working alone would. Or indeed a judgement had been made that particular

objectives may not be obtained without working in collaboration (Huici et al. 2011).

Entrepreneurial teams are more common than academic literature has historically suggested

(Lechler 2001; Chowdhury 2005). This increase in interest can be attributed to the growth in

collaborative start-up ventures. In the last two decades, a change of focus has resulted in less

attention in respect of the competencies of the individual entrepreneur and more emphasis on

the diversity of competencies demonstrated by the entrepreneurial team (Watson et al. 1995;

Frances and Sandberg 2000; Lechler 2001; Ensley et al. 2002; Higashide and Birley, 2002).

Online ISSN: 2385-7137

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A number of definitions relating to precisely what is meant when referring to an

'entrepreneurial team' can be found in the literature. To this end, Watson et al. (1995) posit

that in an entrepreneurial team individuals jointly initiate a business and are involved in its

joint operation. An entrepreneurial team has too been characterized as two or more

individuals with financial interest jointly launching, actively participating and developing a

business (Kamm et al. 1990; Watson et al. 1995; Cooney 2005; Chowdhury 2005).

The reasons behind the decision to pursue an entrepreneurial career with other people instead

of 'going it alone' can be very broad. The rational process model of team formation is based

on economic and pragmatic instrumental criteria that makes the selection a new member as an

issue of complementary skills or assets. In fact the main purpose of a team should be to meet

the needs and to obtain the lack of resources (Ucbasaran et al. 2003). Based on this

perspective, the decisions are taken with regard to the needs of the project and more

specifically to the provenance of those resources (Kamm and Nurick 1993).

In an entrepreneurial team, it is important that the entrepreneur is aware of both identify

resource capacity and resource need towards project feasibility. The decision making process

focuses on the identification of prospective team member(s) offering the best supply of

critical resources to the project (Forbes et al. 2006). During the 'start-up' phase of a business,

it is common that founders may not have direct access to the required resources. The rational

process model would suggest that the expectation is that resources will be secured from team

members or alternatively, from networks (Aldrich and Kim 2007).

From a financial point of view, individuals have an increased likelihood of securing initial

funding if they have a partner. In the first instance a partner brings additional initial capital of

their own towards the star-up entrepreneurial activity. This initial contribution can be

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Volume 2, Number 1, 203-231, January-June 2017

doi: 10.1344/jesb2017.1.j027

monetary or alternatively it may take the form of an unpaid worker salary in the first months.

Moreover, entrepreneurial teams are more likely to attract capital investment (Timmons

1999). Usually, the complementary knowledge and competences are perceived as a symbol of

team strength and capacity to overcome the inevitable trials and tribulations related to new

ventures. Some financiers or even shareholders require a proactive team to support the

management of the firm in return for their financial backing (Tihula et al. 2009).

On the other hand, the potential entrepreneur may choose to seek specific competencies,

knowledge or skills that s/he does not have; technical, human or conceptual skills (Hambrick

et al. 1996). Assertions that teams that are made up of members possessing different skillsets

or complementary aptitudes, can positively influence the success of the team performance

and, as a consequence, achieve more effective results in respect of the new venture (Roure

and Maidique 1986; Utterback et al. 1988; Eisenhart and Schoonhoven 1990; Roberts 1991;

Friar and Meyer 2003; Vanaelst et al. 2006). Thus, the variety of experience and knowledge

that resides within a team can enrich the decision-making process and provide alternative

perspectives. All of which would not be possible if team members possessed the same or

similar profiles. Roberts (1991) suggests that one of the key factors for business success is the

formation of an entrepreneurial team where different, complementary skills are represented

thereby adding value to the new venture.

In the early years of the business, the lone entrepreneur must positively respond and tackle the

requirement for very different and varied resources. Thus, a variety of experience, knowledge

and expertise among team members provides a synergic effect, which can be applied to the

increasingly complex problems of firms (Eisenhart and Schoonhoven 1990).

Online ISSN: 2385-7137

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JESB

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doi: 10.1344/jesb2017.1.j027

Human capital in new ventures: A possible negative effect on team formation propensity While most previous studies have examined team composition, process and effectiveness (Schjoedt and Kraus 2009; West 2007; Vanaelst et al. 2006; Forbes et al. 2006; Molleman and Slomp 2006; Vyakarnam and Handelberg 2005; Rafferty and Tapsell 2001) they do not focus on the reasons that influence an entrepreneur to enrol in group activity as opposed to starting a company as an individual. It remains that a significant proportion of entrepreneurs take the decision to initiate a new venture by 'going it alone'. Based on the rational process model the reasons involved in taking this decision are related to arriving at the conclusion that the skills and complementarity of another are not required to achieve the desired objective. An explanation relating to why potential entrepreneurs in general decide to form a group has been posited, but what factors influence a potential entrepreneur to 'go it alone' or in a group? Wood and Bandura (1989) argue that perceived self-efficacy refers to people's beliefs in their abilities to mobilize the motivation, cognitive resources, and courses of action needed to exercise control over events in their lives. In the context on entrepreneurial activity, entrepreneurial self-efficacy refers to the strength of an individual's belief that he or she is capable of successfully performing the roles and tasks of an entrepreneur (Boyd and Vozikis 1994; Scherer et al. 1989). Self-efficacy and perceived feasibility have all been measured by responding to the question: How confident are you that you can perform the task? (Segal et al. 2005). To this end, if the entrepreneur is confident that they can perform in a lone capacity and therefore the requirement and reliance upon others in an unnecessary inconvenience and therefore negates the need to work with others in a team approach. A crucial aspect of this

Online ISSN: 2385-7137

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doi: 10.1344/jesb2017.1.j027

involves the reflection of which characteristics/factors influence a superior feeling of self-

efficacy.

Human capital is consistently recognised as being an organisation's most significant,

intangible resource (Johanson 2005; Marr and Roos 2005) by playing a fundamental role in

the new knowledge-based economy (Becker et al. 2001; Edvinsson and Malone 1997; Sveiby

2000). The technological advances experienced both by firms and society in general have

meant that the required worker profile is increasingly one with competencies, attitudes and

intellectual agility that permit critical and systematic thinking within the changing and

uncertain environment that he/she must confront (Bontis 2002). Therefore, human capital is

considered the potential source of innovation and generation of ideas for the firm, thus

providing added value of unquestionable importance (Viedma Marti 2001; Bontis 1998).

Consequently, the lack of adequate human capital may have a negative effect on other

activities that create value for the firm (Edvinsson and Malone 1997). The very nature of new

ventures means that a fundamental part of this human capital lies with the entrepreneur or

within the entrepreneurial team. Studies on the important role that human capital plays

towards securing team success has focused on aspects such as: the level of knowledge, social

competences, motivation or commitment of the team members (Vyakarnam and Handelberg

2005). In the following we presented different components of entrepreneur's human capital

and how it can influence the decision to create the company by their own based on the

rational process model.

Entrepreneur's previous knowledge. The entrepreneur's knowledge plays a key role in the

first years of company life. To this end, knowledge acquired through professional activities

carried out prior to creating the company is the most used indicator for measuring this asset

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(Stuart and Abetti 1990; Storey 1994; Bosma et al. 2004; Rauch et al. 2005). Miller et al. (1999) believe that related experience is the most useful indicator for measuring both human and intellectual capital. The experience of the entrepreneur has been considered one of the most important sources of knowledge and a determining factor in the success and growth of

newly-created ventures (Basu and Goswami 1999).

Level and engagement in formal education represents another source of knowledge acquisition that has received attention in the literature surrounding entrepreneurship. Some argue that level of education is the basis for intellectual development, supporting the company enormously, providing the entrepreneur with higher levels of self-confidence in establishing a relationship with stakeholders or financing entities (Vesper 1990; Brüderl et al. 1992; Storey 1994; Van Praag and Cramer 2001; Watson et al. 2003).

Thus in completing a higher level of education and acquiring a certain degree of experience in the sector it is more likely that the potential entrepreneur will perceive themselves as possessing the necessary skills and competences for initiating and running a business.

Based on this assumption we present the following hypothesis:

H1 The entrepreneur's knowledge is positively related to entrepreneurial lone decision

H1a\_ The higher entrepreneur's experience the higher probability to create the company alone

H1b\_ The higher entrepreneur's level of education the higher probability to create the company alone

Entrepreneur's social competences. These can be deemed intangible assets that are not intellectual or "right-brain" oriented and as such often tend to be neglected even though they may be equally as important to the organisation's future: we are referring to social

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competences (Andriessen 2004). Social skills do appear to be important for entrepreneurial

success, as they are generally necessary for an entrepreneur to convince others to invest in or

buy a product or service (Decker et al. 2012; Baron and Markman 2003; Zhao and Seibert

2006). Two of these social competences, namely social perception and adaptation, have

received empirical support in so far as the value they contribute to the firm in the initial stage

of its life support the achievement of higher revenues and profits in the future (Baron and

Markman 2003).

It is these social capacities that permit the entrepreneur to interact with and engage in the

cultivation of relationships with those with whom they are unfamiliar, and so display an

aptitude for social adaptability as well as the ability to perceive the characteristics, intentions

and motives of the other person (Baron and Markman 2003). A high level of competency is

key for establishing core business relationships and vital for conducting effective negotiations

with stakeholders. Baron and Markman (2003) found that entrepreneurs' social adaptability

and accuracy in perceiving others was positively related to financial success.

Entrepreneurs may not initially possess the knowledge and competences that can lead to new

venture success (Chandler and Lyon 2009). Potential entrepreneurs understand that personal

networks can provide them with key resources in the form of information about the market,

new opportunities, problem solving and/or even access to financial resources (Hoang and

Antoncic 2003; Nicolaou and Birley 2003; Shane and Stuart 2002; Walter et al. 2006). Some

authors assume that social relationships are established through seeking any type of

complementarity (Smith and Ruiz 2007). Based on the rational approach that indicates that

individuals look for complementarity of competencies when forming a group, those potential

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JESB

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entrepreneurs with a higher degree of social competencies, will have the feeling of self-efficacy of make one important task for entrepreneur, which is networking (Birley 1984).

Based on this assumption we present the following hypothesis:

H2\_The entrepreneur's social competences are positively related to his entrepreneurial lone decision

H2a\_The higher entrepreneur's social adaptability the higher probability to create the company alone

H2b\_ The higher entrepreneur's social perception the higher probability to create the company alone

Entrepreneur's extrinsic motivation. The motive that drives the founder to develop his business project can either produce added value for the firm or have a negative effect on it. Various authors have studied the influence of entrepreneurs' motivations on the subsequent organisational processes (Gatewood et al. 1995; Van Praag 2003; Van Praag and Cramer 2001; Peña 2002; Collins-Dodd et al. 2004). Most of the aforementioned draw the conclusion that the owner most successful are driven by intrinsic motivation. This could take the form of: the transformation from innovatory idea to practical solution, or by the need to be his/her own boss, feeling that they are more likely to create a business that will have greater chances of personal success as opposed to embarking on what they perceive as the far more difficult task of finding a job. On the other hand, we find the extrinsic motivation, we meant individuals that are pushed into entrepreneurship by negative external forces, such as job dissatisfaction, difficulty finding employment, insufficient salary, or inflexible work schedule (Gilad and Levine 1986).

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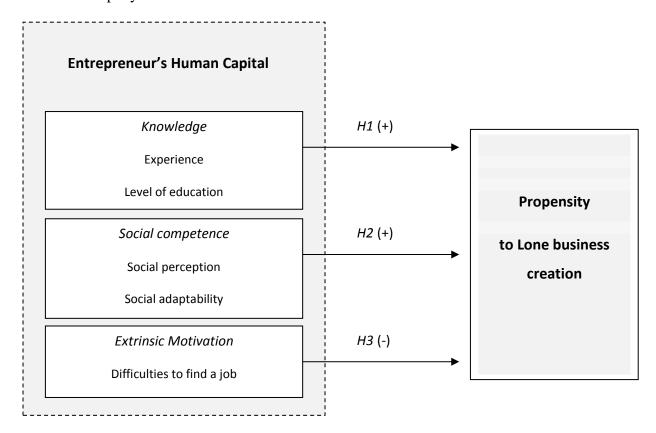
Previous studies have demonstrated that unemployment has a detrimental influence on the self-efficacy (Aviram 2006; Zenger et al. 2013). Creating a company with a very high extrinsic motivation related with the impossibility to find a job can imply a lower perception of self-efficacy and can serve to motivate the future entrepreneur to acquire support in an effort to share the uncertainty of the entrepreneurial project.

Based on this assumption we present the last of the hypothesis:

H3\_ The higher the entrepreneur's extrinsic motivation, the lower the probability to create the company alone

In the following Figure 1 all the hypothesis are summarized:

**Figure 1**. Relationship between entrepreneur's human capital and the propensity to create the company alone



Source: own elaboration.

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Methodology

Characteristics of the sample

In order to verify the hypotheses that related the entrepreneur's human capital to the decision

towards initiating a team project, we collated primary data by means of a questionnaire. For

eligible inclusion in the study, the firm in question must have been undertaking a new

activity, that is, a company that has simply changed its legal form or ownership has not been

included in the population of this study. The final sample consist of: (1) 45 lone

entrepreneurs; (2) 44 teams of two entrepreneurs and (3) 41 teams of more than two

entrepreneurs. The questionnaires were all completed by the company owner who, in

addition, participated actively in the daily activity of the firm and was, preferably, the person

with overall responsibility. If after the first contact the questionnaire was found to have been

completed by one of the firm's employees, it was immediately discarded. Furthermore, all the

firms were funded in Spain and have between 3 and 42 months.

Variables

Dependent variable

The dependent variable was based on the decision to start a company alone or as a consortium

(two or more partners). The variable was measured as a dicotomic variable coded 0 if the

company was created by a lone entrepreneur and 1 if the company was initiated by an

entrepreneurial group. To distinguish between both categories we established a definition in

respect to the term entrepreneurial group. Thus, a company was considered an entrepreneurial

group venture when two or more people were involved in the creation of the company and

reflected both of the following characteristics: (1) had invested any money in company

Online ISSN: 2385-7137

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doi: 10.1344/jesb2017.1.j027

capital, (2) was involved in the day to day activity of the company, either in a part-time or

full-time capacity.

Moreover the possible differences in group decisions were analysed, (with two people (N=

44) and more than two people (N= 41)). However the two groups were homogeneous

regarding the factors under analysis and no perceptible differences were found in the

variables.

Independent variables

Entrepreneur's previous knowledge: The entrepreneur's experience was measured using

number of years' experience in the sector as the indicator (Sandberg and Hofer 1987;

Duchesneau and Gartner 1990; Chandler and Jansen 1992; Van Praag 2003). In order to

measure knowledge levels, we ascertained the level of study that had been acquired through

formal education (e.g., compulsory studies, university studies, etc.). It was used a

classification of seven items with all the possible level of studies, from primary education

until postgraduate studies (Van Praag and Cramer 2001; Collins-Dodd et al. 2004). The

respondents were asked to mark the highest level of education attained. All the entrepreneurs

completed primary and secondary level studies and so these categories were joined. Thus, the

final three categories of this variable are: undergraduate education, university education, post

graduate education.

Entrepreneur's social competence. This variable was measured following the research of

Baron and Markman (2003) who confirmed validity of the scale. Because of issues

surrounding lack of precision and possible deviations with regard to self-reporting, Baron and

Markman interviewed those close to the entrepreneurs in connection with the social

competences of their associate. The findings confirmed that self-reporting was, on the whole,

Online ISSN: 2385-7137

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doi: 10.1344/jesb2017.1.j027

accurate when measuring the self-evaluation and reviews of entrepreneurs, against the

responses provided by others. Thus we used a total of six items to assess the social perception

and adaptability of the entrepreneur. The measurements of social perception captures issues

like the level of the individual's ability to know how others feel in certain situations, when is

the right time to ask someone a favour or the capacity to sufficiently know a person after

conversing once or twice. With respect to social adaptability, the proposed items are related to

the degree of sensitivity and understanding of the respondent and their capacity to

communicate with strangers and talk to them on a range of issues.

Entrepreneur extrinsic motivation: Extrinsic motivation leading to company creation was

studied by proposing options that the entrepreneur had to evaluate on a 7-point Likert scale

according to the level of agreement with the following: "I created my company basically

because I was not able to find a job" (Roberts 1989; Gimeno et al. 1997; Watson et al. 1998;

Peña 2002). Because of the entrepreneur's could feel that they have different motivation, this

variable was measured as a scale. A range of responses were proposed with the entrepreneurs

identifying and marking the grade that best corresponded to their perceptions.

Control variables

Finally, we analysed a series of control variables that could impact on the dependent variable

and have an overall effect on the final results. These variables were: (i) the first company

created by the entrepreneur (ii) the age of the entrepreneurs, and finally, (iii) the gender of the

entrepreneur.

The majority of these variables present significant differences between those who approach a

new enterprise as a group and those working (see Table 1). For example, a greater proportion

of males had decided to create the company on their own. Differences were also significant

Online ISSN: 2385-7137

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doi: 10.1344/jesb2017.1.j027

when we compare the level of experience, extrinsic motivation and social perception of both groups. No significant difference was evident between both groups with regard to age distribution or level of education.

Table 1. Comparison between entrepreneurial group decisions

	Individual decision	Group decision	$X^2/t$
	(N=45)	(N=85)	(p-value)
EXPERIENCE	4.311	3.023	-3.277
EXI EXIENCE	4.511	3.023	(0.001)
EDUCATION			
No university education	37.3%	62.7%	2.897
University education	25.5%	74.5%	(.235)
Postgraduate univ. education	46.7%	53.3%	
EVEDING MOTIVATION	1 444	2.741	-3.478
EXTRINS. MOTIVATION	1.444	2.741	(0.001)
COCIAL DED CEDITION	2120	1021	2.257
SOCIAL PERCEPTION +	3130	.1021	(.026)
COCIAL ADADTABILITY	0.450	0220	.372
SOCIAL ADAPTABILITY +	0450	0238	(.710)
PREVIOUS COMPANY			· · · · · ·
Yes	36.6%	63.4%	.101
No	33.7%	66.3%	(0.751)
GENDER			
Male	39.0%	61.0%	4.739
Female	16.0%	84.0%	(0.029)
ACE (Leaves alles)	39.000	38.50	-0.305
AGE (In months)			(0.761)

Notes: With the continuous variables we made t-test for the significance of the difference between the means of two independent samples. The rest of the differences are indicated using chi-square tests. Sample observations are not weighted.

#### **Results**

Before analysing the relations between the variables, we first examined the reliability of the scale used to measure the entrepreneur's social competence. For this we used Cronbach's alpha coefficient for determining the internal consistency of a scale, analysing the mean correlation of a variable with all the other variables from which the scale was built. Thus, we see that the scales show an acceptable level of consistency, with values upper that 0.7.

<sup>+</sup> Variables extracted from the factor analysis

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Table 2. Analysis of the reliability of the entrepreneur's social ability

Variables	Reliability (Cronbach's Alpha)	Mean	Standard Deviation		
Social perception	0. 719	5. 11	1. 69		
Social adaptation	0. 712	5.96	1. 14		

Table 3 shows the inter-factor correlation matrix used to evaluate the significance level of the existing relationships. There are significant and positive correlations between the entrepreneur's experience and being male and the age, and negative relationship with the extrinsic motivation. Moreover, there is a positive correlation between having a previous company, the entrepreneur's age and being a male, and between age and gender. A series of tests revealed the non-presence of multicollinearity and in table 3 we can see that none of the correlations are superior to 0.4.

Table 3. Correlation matrix

		1	2	3	4	5	6	7	8
1	EXPERIENCE	1.000							
2	EDUCATION	069	1.000						
3	EXTRINSIC MOTIVAT	224*	.053	1.000					
4	SOCIAL PERCEP	.124	.133	.105	1.000				
5	SOCIAL ADAPTAB	013	.179*	043	011	1.000			
6	PREVIOUS COMPANY	.138	103	129	028	.118	1.000		
7	GENDER	.219*	141	211*	.077	.021	.257**	1.000	
8	AGE	.323**	025	115	051	052	.315**	.247**	1.000

Notes: Spearman rank correlation (1-tailed significance); \*\* Correlation is significant at the 0.01 level (1-tailed), \* significant at the 0.05 level (1-tailed). Sample observations are not weighted.

Because the dependent variables were binary choice variables, logistic regressions were used to test the hypotheses. Reference cell coding was applied to the categorical variables as follows: (i) for the education variable, non-university study was used as the reference group; (ii) for previous company, not having a previous company served as the reference group; and (iii) for gender, female was the reference.

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A potential limitation to logit analysis is multicollinearity, which can occur when there is

strong linear dependence among the independent variables (Hosmer and Lemeshow 2000).

Multicollinearity is manifested by extraordinarily large estimated standard errors (and

sometimes by large estimated coefficients), which can result in a lack of statistical

significance of independent variables, even though the overall model can be strongly

significant. As shown in Table 3, the model coefficients and standard errors in the present

data were not extraordinary large, which suggests that multicollinearity was not a problem in

this case.

Table 4 shows the results of the goodness of fit of the models (using the likelihood ratio test,

Pearson chi-square, and the Hosmer-Lemeshow test) and test of variance using the

Nagelkerke-statistic (pseudo R<sup>2</sup>). The Pearson chi-square tests demonstrated that the models

were globally significant, and the p-value of the Hosmer and Lemeshow tests (greater than the

significance level of 5%) indicated that the models fitted quite well.

To test Hypotheses, the model presented in table 4 logistic regressions were undertaken, with

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dependent variable and entrepreneur's as the

'KNOWLEDGE',

**EXTRINSIC** 

MOTIVATION' 'SOCIAL COMPETENCES' as the independent variables, and the variables

'AGE', 'GENDER', and 'PREVIOUS COMPANIES as control variables.

Table 4 shows the results of testing the hypotheses. In the sample analysed, if the

entrepreneur had previous experience in the sector significantly decreased the likelihood of

deciding to create the company with other people. In other words, if an individual has

knowledge within the sector, their preferred choice is to start a company on their own.

Online ISSN: 2385-7137



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Table 4. Results of logistic regression for individual vs groups decision to create the company

	В	Std. Err.	Sig.	OR			
EXPERIENCE	327	.114	.004**	.721			
EDUCATION							
No university education			.309				
University education	.801	.697	.250	2.228			
Postgraduate univ. education	1.181	.770	.125	3.258			
EXTRINS. MOTIVATION	.327	.151	.026*	.721			
SOCIAL PERCEPTION	.575	.234	.014*	1.776			
SOCIAL ADAPTABILITY	.121	.228	.595	1.129			
PREVIOUS COMPANY							
Yes	428	.518	.408	.652			
GENDER							
Male	.825	.660	.211	2.282			
AGE	.025	.030	.391	1.026			
Constant	369	1.335	.782	.692			
N	130						
Hosmer and Lemeshow test	6.947 (0.542)						
Chi Square	32.651 (0.000)						
Pseudo R <sup>2</sup> (Nagelkerke)	0.319						
-2 Log likelihood	126.935						
Percentage predicted correctly	77.6						

However, there is not a significant relationship between the level of study attained and the decision to engage in entrepreneurial activity as a group. Hypothesis H1 was thus partially supported. It would seem that knowledge acquired through previous experience (H1a), as opposed to knowledge acquired through education (H1b), has a greater impact on deciding whether or not to pursue a collaborative new venture.

These results confirm the significance of the role played by experience in the first years of company life. In this case, this experience can have a direct impact on the entrepreneur's perception of their own capacity. Thus the previous experience in the same sector can make the entrepreneur to know the future customers, market opportunities and resource needs. This fact can positively influence self-confidence and therefore indicates this group of entrepreneurs are more prone to lone company creation. Regarding level of education, the

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results are inconclusive regarding having a direct impact in the very early stage of company

life. Thus, despite level of formal education, the potential entrepreneur does not feel so ready

or confident to address a new and uncertain endeavour.

Regarding hypothesis 2, we can find significant differences in the entrepreneur's social

perception (H2b) between two groups but not in the social adaptability (H2a). Thus social

competences only partially affect the probability of creating a company as a group venture.

The entrepreneurs that decide to collaborate in order to create a company have a higher social

perception and have the ability to perceive the most appropriate opportunity to talk with

someone or to elicit goodwill. These results are contrary to the theoretical arguments for

supporting hypothesis 2. Thus the results do not support that a positive self-evaluation and

confidence relating to their effectiveness for the possibility of obtaining the resources they

require from contacts and different networks make that the entrepreneur prefer to create the

company alone, but it creates the opposite effect. In the following section, these results are

discussed according to the literature.

These differences were not observed in the entrepreneur's social adaptability measurement,

understood by the entrepreneur's capacity to adapt to new situation and people. The ability to

be with new people in new situations can favour a tendency to work as part of a team and feel

comfortable in this situation, explaining why a negative effect was not found in the decision

to create an entrepreneurial team. This social competence can be hiding an internal preference

to work in team. Thus hypothesis two is only partially accepted.

Finally, table 3 shows the empirical support for hypothesis 3. The results demonstrate that for

this sample the entrepreneurs who decided to create a company with at least one other person

is more likely to be extrinsically motivated towards creating a business.

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Discussion of the results and conclusions

In the field of entrepreneurship it is very common to forget alternative theoretical frameworks

when the results are not as one would have expected (Zahra 2007). The application of some

theories often lack rigor and creativity, producing obvious or inconclusive results. For this

reason it is very important to discuss the results critical analyzing the assumption of the

theory in order to understand how other theoretical approaches can help to understand the

phenomenon understudy (Zahra 2007). Johannisson et al. (2007) emphasized the value of

analyzing a unique phenomenon from different theoretical perspectives. This exercise permits

a depth of exploration of a phenomenon that supports the academic community to understand

application and impact.

In this case, the theory of rational approach does not support the results of the second

hypothesis that argued that the entrepreneur's social competences are positively related to his

entrepreneurial lone decision. To this end, we utilise an alternative theoretical approach that

attempts to explain the reason for group formation from a social psychological approach. This

approach emphasises the interpersonal fit between team members and the need for a smoothly

functioning group process (Forbes et al., 2006; Aldrich and Kim, 2007). Indeed, motivation

for social contact is a central influence on human behaviour (Baumeister & Leary, 1995; Hill,

1987). The results of our study reflect that individuals with higher social perception prefer to

form a company adopting a group approach. These individuals have the ability to know how

others feel in certain situations or they believe they have the capacity to sufficiently know a

person after conversing once or twice. This demonstrates the reflective approach of someone

aware of the importance of the social contacts and of all the benefits that this involves. Decker

et al. (2012) found a positive association between entrepreneurial careers and the need for

Online ISSN: 2385-7137

JESB

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doi: 10.1344/jesb2017.1.j027

positive stimulation from other persons. Therefore, persons with entrepreneurial interests enjoy interacting with other people, but are not, it would appear, emotionally dependent upon

them.

Moreover, the entrepreneurs' skills of understanding others and empathic recognition can indicate an understanding of the benefits of collaborate working brings and reduces the negative perceived effects towards that of building a team. Thus social competences have been demonstrated to be important for making an entrepreneurial group more likely to experience success (Ensley et al. 2002). These individuals can be looking for more a social regards that the rational process model can not explained, we meant positive affect, attention or reduction of negative affect through social contact.

On the other hand, sector experiences instil confidence and support the capacity to pursue company creation as a lone project. Those possessing greater sector experience have had time to learn about demand, customers, the innovative process and the environmental factors that influence his business activity. Entrepreneurship literature has extensively demonstrated the importance of the entrepreneur's prior experience, particularly sector experience, towards succeeding in a new venture (Brüderl et al. 1992; Lerner and Almor 2002; Van Praag 2003; Bosma et al. 2004). This experience supports key skills and core knowledge development, particularly in regard to: securing access to required resources through networks, understanding and analysing customer preferences or systems of production. Moreover, experience can support a perception of confidence and decrease the uncertainty of the first years in a new venture. To this end, different authors adopting a psychological approach have suggested that knowledge reduces feelings of uncertainty. This notion may be applied to the uncertainty and risk surrounding entrepreneurial activity (Janney and Dess 2006).

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Regarding motivation, the external pressure of, for instance, being unemployed and unable to

find a job can influence an entrepreneur's self-perception and competency in different ways.

On the one hand being unsuccessful at gaining employment has a negative impact on

confidence levels, makes them less secure in their own ability to pursue business start-up in a

lone capacity. The need for support and the notion that they don't possess certain

competencies that others could provide increases the likelihood of collaborative company

creation. On the other hand, they face a higher level of uncertainty, are less confident is their

ability to achieve positive outcomes and are initially, less confident in the likelihood of

securing an income from the business. A higher level of pressure is experienced in

combatting the negativity and securing an income. This battle with self-confidence and the

necessity to achieve an income makes it more likely to seek out others to work with in order

to increase the probability of success and to share the uncertainty of the first years' of

company life.

This study has investigated the differences between lone and group entrepreneurs in regard to

human capital thereby contributing to how and why the different paths are pursued. The main

conclusions of the empirical analysis demonstrate that certain entrepreneur's human capital

variables (previous experience, social competence and extrinsic motivation) are related to the

decision to create a company as a lone venture or collaboratively as part of a group.

The results of this research have several implications. From an academic point of view

contribute to the knowledge of the entrepreneurial team formation phenomenon. The research

of this topic is still scares if we compare with the research focus on individual entrepreneur.

To understand why entrepreneurs decide to act as a team can helps consultants and

institutions when they try to create teams ad hoc to exploit business opportunities.

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Although the findings of this study are significant, some limitations are acknowledged. The

sample is comprised by 85 entrepreneurial teams and 45 lone entrepreneurs. A larger and

more diverse sample will help to enrich the results. Moreover, future researches could include

teams from different countries and cultures, to compare the cultural values in the propensity

to work individually or in team. This study has been pioneering in identifying individual

human factors that can influence the higher propensity to create a company alone or as a

group however the results that not goes deeper to other factors that can be influencing this

decision like the entrepreneur's environment or his perception about teamwork. Moreover,

this study lays the foundations upon which further research on the important role that

entrepreneurs' characteristics and background can play in entrepreneurship and the impact it

has on the decision making process: lone enterprise or group venture?

Future research could extend the study's approach to the investigation of self- efficacy, using

it for measuring the possible mediating effect between human capital variables and the

entrepreneurial group decision. Also, while the objective of this study is to measure the lone

propensity decision, it would be of interest to investigate the performance as the last

dependent variable in the model.

References

Aldrich, Howard E., and Philip H. Kim. 2007. "Small worlds, infinite possibilities? How social

networks affect entrepreneurial team formation and search." Strategic Entrepreneurship Journal

1: 147-165.

Andriessen, Daniel. 2004. "IC valuation and measurement: classifying the state of the art." Journal of

Intellectual Capital 5: 230-242.

Aviram, Arie. 2006. "A study of factors that influence unemployed persons." Journal of Employment

225

Counseling 43: 154-167.

Online ISSN: 2385-7137

- doi: 10.1344/jesb2017.1.j027
- Baron, Robert A., and Gideon D. Markman 2003. "Beyond social capital: the role of entrepreneurs social competence in their financial success." *Journal of Business Venturing* 18: 41-60.
- Basu, Anuradha, and Arati Goswami. 1999. "Determinants of South Asian entrepreneurial growth in Britain: a multivariate analysis." *Small Business Economics* 13: 57-70.
- Baumeister, Roy F., and Mark R. Leary. 1995. "The need to belong: Desire for interpersonal attachments as a fundamental human motivation." *Psychological Bulletin* 117: 497-529.
- Becker, Brian E., Mark A. Huselid, and David Ulrich. 2001. *The HR scorecard: linking people, strategy, and performance*. Boston: Harvard Business School Press.
- Ben-Hafaiedh-Dridi, Cyrine. 2010. "Entrepreneurial team formation: Any rationality?" *Frontiers of Entrepreneurship Research* 30: Article 1. http://digitalknowledge.babson.edu/fer/vol30/iss10/1
- Birley, Sue. 1984. "Finding the new firm." *Proceedings of the Academy of Management Meetings* 47: 64-68.
- Bontis, Nick. 1998. "Intellectual capital: and exploratory study that develops measures and models." *Management Decision* 36: 63-76.
- Bontis, Nick. 2002. *National intellectual capital index: Intellectual capital development in the Arab Region*. Ontario: Institute for Intellectual Capital Research.
- Bosma, Niels, Mirjam Van Praag, M., Roy Thurik, and G. Ardine DeWit. 2004. "The value of human and social capital investments for the business performance of start-ups." *Small Business Economics* 23: 227-236.
- Boyd, Nancy G., and George S. Vozikis. 1994. "The influence of self-efficacy on the development of entrepreneurial intentions and actions." *Entrepreneurship Theory and Practice* 18: 63-77.
- Brüderl, Josef, Peter Preisendörfer, and Rolf Ziegler. 1992. "Survival chances of newly funded business organizations." *American Sociological Review* 57: 227-242.
- Burn, Shawn M. 2004. *Groups. Theory and practice*. California: Thonson and Wadsworth.
- Cartwright, Dorwin, and Alvin Zander. 1968. *Group dynamics: Research and theories*. New York: Harper and Row.
- Chandler, Gaylen N., and Erik Jansen. 1992. "The founder's self-assessed competence and venture performance." *Journal of Business Venturing* 7: 223-236.
- Chandler, Gaylen N., and Douglas W. Lyon. 2009. "Involvement in knowledge-acquisition activities by venture team members and venture performance." *Entrepreneurship Theory and Practice* 33: 571-592.
- Chowdhury, Sanjib. 2005. "Demographic diversity for building an effective entrepreneurial team: is it important?" *Journal of Business Venturing* 20: 727-746.

Volume 2, Number 1, 203-231, January-June 2017

- Collins-Dodd, Colleen, Irene M. Gordon, and Carolyne Smart. 2004. "Further evidence on the role of gender in financial performance." *Journal of Small Business Management* 42: 395-417.
- Cooney, Thomas. 2005. "What is an entrepreneurial team?" *International Small Business Journal* 23: 226-235.
- Decker, Wayne H., Thomas J. Calo, and Christy H. Weer. 2012. "Affiliation motivation and interest in entrepreneurial careers." *Journal of Managerial Psychology* 27: 302-320.
- Duchesneau, Donald A., and William B. Gartner. 1990. "A profile of new venture success and failure in an emerging industry." *Journal of Business Venturing* 5: 297-312.
- Edvinsson, Leif, and Michael Malone 1997. *Intellectual capital: realising your company's true value by finding its hidden brainpower*. New York: Harper Collins.
- Eisenhart, Katheleen M., and Claudia Bird Schoonhoven. 1990. "Organizational growth: Linking founding team, strategy, environment, and growth among U.S. semiconductor ventures." *Administrative Science Quarterly* 35: 504-529.
- Ensley, Michael D., Allison W. Pearson, and Allen C. Amason. 2002. "Understanding the dynamics of new venture top management teams: cohesion, conflict, and new venture performance." *Journal of Business Venturing* 17: 365-386.
- Forbes, Daniel P., P.S. Borchert, M.E. Zellmer-Bruhn, and H.J. Sapienza. (2006). "Entrepreneurial Team Formation: An Exploration of New Member Addition." *Entrepreneurship Theory and Practice* 30: 225-248.
- Frances, Deborah H., and William R. Sandberg. 2000. "Friendship within entrepreneurial teams and its association with team and venture performance." *Entrepreneurship Theory and Practice* 25: 5-26.
- Friar, John H., and March H. Meyer. 2003. "Entrepreneurship and start-ups in the Boston region: factors differentiating high-growth ventures from micro-ventures." *Small Business Economics* 21: 145-152.
- Gatewood, Elizabeth J., Kelly G. Shaver, and Willam B. Gartner (1995). "A longitudinal study of cognitive factors influencing start-up behaviours and success at venture creation." *Journal of Business Venturing* 10: 371-391.
- Gilad, Benjamin, and Philip Levine. 1986. "A Behavioral model of entrepreneurial supply." *Journal of Small Business Management* 24: 45-54.
- Gimeno, Javier, T. Folta, A. Cooper, and C. Woo. 1997. "Survival of the fittest? Entrepreneurial human capital and the persistence of underperforming firms." *Administrative Science Quarterly* 42: 750-783.

Volume 2, Number 1, 203-231, January-June 2017

- Hambrick, Donald C., Theresa Seung Cho, and Ming-Jer Chen. 1996. "The influence of top management team heterogeneity on firms' competitive moves." *Administrative Science Quarterly* 41: 659-684.
- Hill, Craig A. (1987). "Affiliation motivation: People who need people... but in different ways." Journal of Personality and Social Psychology 52: 1008-1018.
- Higashide, Hironori, and Sue Birley. 2002. "The consequences of conflict between the venture capitalist and the entrepreneurial team in the United Kingdom from the perspective of the venture capitalist." *Journal of Business Venturing* 17: 59-78.
- Hoang, Ha, and Bostjan Antoncic. 2003. "Network-based research in entrepreneurship: a critical review." *Journal of Business Venturing* 18: 165-187.
- Hosmer, David W., and Stanley Lemeshow. 2000. *Applied Logistic Regression*. New York: John Wiley & Sons, Inc.
- Huici, Carmen, F. Molero, A. Gómez, and J.F. Morales. 2011. *Psicología de los Grupos*. Madrid: UNED.
- Janney, Jay J., and Gregory Dess. 2006. "The risk concept for entrepreneurs reconsidered: New challenges to the conventional wisdom." *Journal of Business Venturing* 21: 385-400.
- Johannisson, Bengt, L. Centeno Caffarena, A. Discua Cruz, E. Hormiga Pérez, M. Kapelko, K. Murdock, D. Nanka-Bruce, M. Olejarova, A. Sánchez López, A. Sekki, C. Stoian, H. Tötterman, and A. Bisignano. 2007. "Interstanding the industrial district: Contrasting Conceptual Images as a Road to Insight." *Entrepreneurship and Regional Development* 19: 527-554.
- Johanson, Ulf. 2005. "A human resource perspective on intellectual capital." In *Perspective on intellectual capital. Multidisciplinary insights into management, measurement and reporting,* edited by B. Marr, 96-105. Boston: Elsevier.
- Kamm, J.B., and A.J. Nurick. 1993. "The stages of team venture formation: A decision-making model." *Entrepreneurship Theory and Practice* 17: 17-27.
- Kamm, Judith B., J.C. Shuman, J.A. Seeger, and A.J. Nurick. 1990. "Entrepreneurial teams in new venture creation: a research agenda." *Entrepreneurship Theory and Practice* 14: 7-17.
- Lechler, Thomas. 2001. "Social interaction: a determinant of entrepreneurial team venture success." Small Business Economics 16: 263-278.
- Lerner, Miri, and Tamar Almor. 2002. "Relationships among strategic capabilities and the performance of women-owned small ventures." *Journal of Small Business Management* 40: 109-125.



Volume 2, Number 1, 203-231, January-June 2017

- Marr, Bernard, and Göran Roos. 2005. "A strategy perspective on intellectual capital." In *Perspective* on intellectual capital. Multidisciplinary insights into management, measurement and reporting, edited by B. Marr, 28-41. Boston: Elsevier.
- Miller, Marilyn, B.D. DuPont, V. Fera, R. Jeffrey, B. Mahon, B.M. Payer, and A. Starr. 1999. "Measuring and reporting intellectual capital from a diverse Canadian industry perspective." Paper presented at the International Symposium Measuring Reporting Intellectual Capital: Experiences, Issues, and Prospects, OECD, Amsterdam, June 9-11.
- Molleman, Eric, and Jannes Slomp. 2006. "The impact of team and work characteristics on team functioning." *Human Factors and Ergonomics in Manufacturing & Service Industries* 12: 1-15.
- Nicolaou, Nicos, and Sue Birley. 2003. "Social networks in organizational emergence: the university spinout phenomenon." *Management Science* 49: 1702-1725.
- Peña, Iñaki. 2002. "Intellectual capital and business start-up success." *Journal of Intellectual Capital* 3: 180-198.
- Rafferty, James, and Jane Tapsel. 2001. "Self-managed work teams and manufacturing strategies: Cultural influences in the search for team effectiveness and competitive advantage." *Human Factors and Ergonomics in Manufacturing & Service Industries* 11: 19-34.
- Rauch, Andreas, Michael Frese, and Andreas Utsch. 2005. "Effects of human capital and long-term human resources development and utilization on employment growth of small-scale business: A causal analysis." *Entrepreneurship Theory and Practice* 29: 681-698.
- Ribeiro-Soriano, Domingo, and David Urbano. 2009. "Overview of collaborative entrepreneurship: An integrated approach between business decisions and negotiations." *Group Decision and Negotiation* 18: 419-430.
- Roberts, Edward. 1989. "The personality and motivations of technological entrepreneurs." *Journal of Engineering and Technology Management* 1: 1-19.
- Roberts, Edward. 1991. *Entrepreneurs in high-technology: Lessons from MIT and beyond*. New York: Oxford University Press.
- Roure, Juan B., and Modesto A. Maidique 1986. "Linking prefunding factors and high technology venture success: An exploratory study." *Journal of Business Venturing* 1: 295-306.
- Sandberg, William R., and Charles W. Hofer. 1987. "Improving new venture performance: the role of strategy, industry structure and entrepreneur." *Journal of Business Venturing* 2: 5-29.
- Scherer, Robert F., J.S. Adams, S.S. Carley, and F.A. Wiebe. 1989. "Role model performance effects on development of entrepreneurial career preference." *Entrepreneurship Theory and Practice* 13: 53-71.

Volume 2, Number 1, 203-231, January-June 2017

- Schjoedt, Leon, and Sascha Kraus. 2009. "Entrepreneurial teams: definition and performance factors." Management Research News 32: 513-524.
- Segal, Gerry, Dan Borgia, and Jerry Schoenfeld. 2005. "The motivation to become an entrepreneur." International Journal of Entrepreneurial Behaviour & Research 11: 42-57.
- Shane, Scott A., and Toby Stuart. 2002. "Organizational endowments and the performance of university start-ups." *Management Science* 48: 154-170.
- Smith, Jessi L., and John M. Ruiz. 2007. "Interpersonal orientation in context: Correlates and effects of interpersonal complementary on subjective and cardiovascular experiences." *Journal of Personality* 75: 679-708.
- Storey, David J. 1994. *Understanding the Small Business Sector*. London-Boston: International Thomson Business Press.
- Stuart, Robert W., and Pier A. Abetti. 1990. "Impact of entrepreneurial and management experience on early performance." *Journal of Business Venturing* 5: 151-162.
- Sveiby, Karl Erik. 2000. La nueva riqueza de las empresas. Barcelona: Gestión 2000.
- Tihula, Sanna, Jari Huovinen, and Matthias Fink. 2009. "Entrepreneurial teams vs management teams." Reasons for team formation in small firms." *Management Research News* 3: 555-566.
- Timmons, Jeffry A. 1999. *New Venture Creation: Entrepreneurship for the 21st century*. Boston, MA: Irwin/McGraw Hill.
- Ucbasaran, Deniz, A. Lockett, M. Wright, and P. Westhead. 2003. "Entrepreneurial founder teams: Factors associated with member entry and exit." *Entrepreneurship Theory and Practice* 28: 107-128.
- Utterback, James, M. Meyer, E. Roberts, and G. Reitberger. 1988. "Technology and industrial innovations in Sweden: A study of technology-based firms formed between 1965 and 1980." *Research Policy* 17: 15-26.
- Vanaelst, Iris, B. Clarysse, M. Wright, A. Lockett, N. Moray, and R. S'Jegers. 2006. "Entrepreneurial team development in academic spinouts: An examination of team heterogeneity." *Entrepreneurship Theory and Practice* 30: 249-271.
- Van Praag, C. Mirjam. 2003. "Business survival and success of young small business owners." *Small Business Economics* 21: 1-17.
- Van Praag, C. Mirjam, and Jan Salomon Cramer. 2001. "An estimated equilibrium model of business formation and labour demand by entrepreneurs." *Economica* 68: 45-62.
- Vesper, Karl H. 1990. New Venture Strategies. New Jersey: Prentice-Hall, Englewood Cliffs.
- Viedma Marti, José María. 2001. "ICBS Intellectual Capital Benchmarking System." *Journal of Intellectual Capital* 2: 148-165.



Volume 2, Number 1, 203-231, January-June 2017

doi: 10.1344/jesb2017.1.j027

- Vyakarnam, Shailendra, and Jari Handelberg. 2005. "Four themes of the impact of management teams on organizational performance: Implications for future research of entrepreneurial teams." *International Small Business Journal* 23: 236-256.
- Walter, Achim, M. Auer, and T. Ritter. 2006. "The impact of network capabilities and entrepreneurial orientation on university spin-off performance." *Journal of Business Venturing* 21: 541-567.
- Watson, Kathryn, Sandra Hogarth-Scott, and Nicholas Wilson. 1998. "Small business start-ups: success factors and support implications." *International Journal of Entrepreneurial Behaviour & Research* 4: 217-238.
- Watson, Warren E., Louis D. Ponthieu, and Joseph W. Critelli. 1995. "Team interpersonal process effectiveness in venture partnerships and its connection to perceived success." *Journal of Business Venturing* 10: 393-411.
- Watson, Warren, Wayne H. Stewart, and Anat BarNir. 2003. "The effects of human capital, organizational demography and interpersonal processes on venture partner perceptions of firm profit and growth." *Journal of Business Venturing* 18: 145-164.
- West, G. Page. 2007. "Collective cognition: When entrepreneurial teams, not individuals, make decisions." *Entrepreneurship Theory and Practice* 31: 77-102.
- Wood, Robert, and Albert Bandura. 1989. "Social cognitive theory of organizational management." The Academy of Management Review 14: 361-384.
- Zahra, Shaker A. 2007. "Contextualizing theory building in entrepreneurship research." *Journal of Business Venturing* 22: 443-452.
- Zenger, Markus, H. Berth, E. Brähler, and Y. Stöbel-Richter. 2013. "Health Complaints and Unemployment: The Role of Self-Efficacy in a Prospective Cohort Study." *Journal of Social and Clinical Psychology* 32: 97-115.
- Zhao, Hao, and Scott E. Seibert. 2006. "The Big Five personality dimensions and entrepreneurial status: A meta-analytical review." *Journal of Applied Psychology* 91: 259-271.
- Zhou, Wencang, Donald Vredenburgh, and Edward G. Rogoff. 2015. "Informational diversity and entrepreneurial team performance: moderating effect of shared leadership." *International Entrepreneurship and Management Journal* 11: 39-55.

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