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Entrepreneurial Leadership, Work Engagement, and Innovative Work Behavior: The Moderating Role of Gender

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Abstract:

Purpose: This research examines the effect of entrepreneurial leadership on innovative work behavior and the mediation of work engagement in that relationship. Additionally, it evaluates the moderation of gender in this relationship.

Design/Methodology/Approach: We use data from medium-sized companies in Guayaquil and Quito in Ecuador. Through the use of a structural equation model, we analyze the mediating effect of work engagement in the relationship between entrepreneurial leadership and innovative behavior and the moderating role of gender.

Findings: The results show that entrepreneurial leadership has a significant positive impact on innovative behavior. Likewise, we find evidence for a significant mediation effect of work engagement in the relationship between entrepreneurial leadership and innovative work behavior. Additionally, gender moderation is verified, showing that the impact of entrepreneurial leadership on innovative behavior is stronger in women than in men.

Originality/value: This study proposes a new model considering three constructs entrepreneurial leadership, work engagement, and innovative work behavior—which will serve future research on these topics. With these findings, we contribute new knowledge to both the scientific community and the management of firms.

Keywords: Entrepreneurial leadership, innovative work behavior, work engagement.

JEL codes: M12, J24, J81, M54.

Paper type: Research article.

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1. Introduction

In a competitive and changing business world, innovation and creativity are critical factors for gaining a competitive advantage and achieving organizational sustainability (Cai *et al.*, 2018; Chow, 2018). For instance, entrepreneurial leadership is a strategic leadership style (Fontana and Musa, 2017) that can contribute to this competitive advantage. The leadership styles can improve work engagement of employees not only directly but also indirectly through increased job resources and decreased job demands (Schaufeli, 2015; Schaufeli and Bakker, 2004). Therefore, entrepreneurial leadership has an impact on work engagement, which can, in turn, develop innovative work behavior (Bani-Melhem *et al.*, 2018; Bogilović *et al.*, 2020).

The purpose of this study is to determine the effect of entrepreneurial leadership on innovative work behavior and the mediation of work engagement in that relationship; we also estimate the moderation effect of gender. The scales used for the questionnaire are the entrepreneurial leadership scale developed by Renko et al. (2015), the Schaufeli and Bakker (2003) work engagement scale, and the innovative work behavior scale developed by Janssen (2000). The survey was carried out on medium-sized manufacturing firms from Quito and Guayaquil in Ecuador.

Few studies can be found in the literature on the three constructs entrepreneurial leadership, work engagement, and innovative work behavior. The contribution of this study considers the research needs concerning entrepreneurship (Anwar *et al.*, 2021), entrepreneurial leadership (Bagheri, 2017; Bagheri and Akbari, 2018; Bagheri and Harrison, 2020), its relationship with sociodemographic characteristics (Bagheri and Akbari, 2018; Kimbu *et al.*, 2021), work engagement (Agarwal, 2014; Agarwal *et al.*, 2012; Ahmad and Gao, 2018; Amor *et al.*, 2020; De-la-Calle-Durán and Rodríguez-Sánchez, 2021; Hakanen *et al.*, 2021; Iqbal *et al.*, 2022; Karatepe *et al.*, 2020), innovative work behavior (Akbari *et al.*, 2021; Akram *et al.*, 2020; Bani-Melhem *et al.*, 2018; Iqbal *et al.*, 2022; Knezović and Drkić, 2020; Li *et al.*, 2020; Saeed *et al.*, 2018; Wang *et al.*, 2020), and the mediation mechanisms between entrepreneurial leadership and innovative work behavior (Akbari *et al.*, 2021; Li *et al.*, 2021; Li *et al.*, 2020).

Therefore, this study addresses this empirical knowledge gap theoretically and empirically. It constructs a structural equation model linking the three latent variables mentioned above. The main findings show that these links are significant, contributing new knowledge for both the scientific community and the managers of firms.

2. Literature Review

2.1 Entrepreneurial Leadership

According to Darling *et al.* (2007) entrepreneurial leadership can be defined as the process of influencing organizations through leadership and direct participation in value creation. Renko *et al.* (2015) established that entrepreneurial leadership implies influencing and guiding the performance of group members toward the achievement of organizational goals that involve the recognition and exploitation of entrepreneurial opportunities. They developed and validated a scale called ENTRELEAD to measure employees' perception of the attitudes that identify an immediate manager or team leader as an entrepreneurial leader.

Moreover, Fontana and Musa (2017) defined entrepreneurial leadership as a leadership style that focuses on making heterogeneous talents in a firm work in a more creative and innovative way to respond to an uncertain business environment (innovation process) and create adequate strategies and novel results (innovation performance). Therefore, this type of leadership seeks to boost the creativity of employees, thus adjusting to the trends of the current century (Mehmood *et al.*, 2021). Additionally, Liu *et al.* (2022) found that entrepreneurial leadership is related to the capacity of employees to improvise. Regarding small and medium-sized enterprises (SMEs), Nguyen *et al.* (2021) highlight the importance of entrepreneurial leadership because of its influence on business performance.

2.2 Innovative Work Behavior

The literature review showed that innovative work behavior begins with the work of Kanter (1988), who explained that the innovation process is carried out through four phases: the identification of problems and brainstorming solutions; the search for partnerships or sponsorships that allow companies to obtain the necessary power to materialize their ideas; the realization of the ideas, producing innovation and the diffusion or adoption of the innovation.

Janssen (2000) was the first to try to develop a multidimensional measure of innovative work behavior. He considered three behavioral tasks—idea generation, idea promotion, and idea realization—and concluded that their items would be better combined and used as a single additive scale. De Jong and Den Hartog (2008) confirmed the hypothetical relationships between innovative work behavior and participative leadership, distinguishing four forms of innovative work behavior that develop within the innovation process.

Recently, Alheet *et al.* (2021) found that other type of leadership, transformational leadership, stimulates positively the innovative work behavior of employees. In addition, Afsar *et al.* (2021) studied various elements that could lead to an innovative work behavior, such as, cultural intelligence, engagement and

interpersonal trust. The authors demonstrate that cultural intelligence does have an impact on innovative work behavior, and interpersonal trust and engagement act as partial mediators on that relationship.

Furthermore, Wang *et al.* (2022) show how high-involvement work practices (empowerment of employees) impact the innovative work behavior. Similarly, Datta *et al.* (2021) demonstrate that human resource management practices can boost the talent of workers, hence increasing innovation at work.

2.3 Work Engagement

Kahn (1990) began studying work engagement based on the role theory of employees at work. He distinguished that, in engagement, people express themselves physically, cognitively, and emotionally during role tasks, the components of engagement being the physical, cognitive, and emotional factors. Furthermore, Schaufeli *et al.* (2002) conceptualized work engagement as a positive, satisfying, work-related state of mind composed of three elements—vigor, dedication, and absorption—and developed a scale for its measurement based on them: (a) vigor is distinguished by high energy levels and mental resilience, the willingness to invest effort in work, and persistence even in the face of difficulties; (b) dedication denotes a sense of importance, enthusiasm, inspiration, pride, and challenge; (c) absorption is defined in terms of psychological identification with the job.

Regarding these elements, Neuber *et al.* (2022) showed that the three elements of engagement have a positive relationship with performance at work, and only vigor and dedication show a negative relationship with absenteeism.

Among the factors that can improve the work engagement, Garg *et al.* (2017) identify that labor satisfaction has a positive impact on engagement. By other side, Reina-Tamayo *et al.* (2018) found that that the joint effect of job demands that challenge labor or personal resources leads to higher levels of work engagement. Whereas the factors that could diminish work engagement are the job demands that hinder the labor or personal resources (Reina-Tamayo *et al.*, 2018) and high levels of work stress (Gómez-Salgado *et al.*, 2021).

2.4 Entrepreneurial Leadership and Innovative Work Behavior

The relationship between the constructs entrepreneurial leadership and innovative work behavior has been explored by a few researchers. In China, it has been shown that leaders who adopt entrepreneurial behaviors, such as identifying and exploiting opportunities, are more likely to encourage innovative behavior among employees (Newman *et al.*, 2018). In the same country, Li *et al.* (2020) found a positive and significant effect of entrepreneurial leadership on the innovative work behavior of employees. In other contexts, research performed by Newman *et al.* (2017) on a population of employees and entrepreneurs of small social enterprises in Australia,

Canada, and the United Kingdom confirmed that entrepreneurial leadership is positively related to the innovative behavior of followers.

In high-tech companies, entrepreneurial leadership has been found to foster innovative employee behavior through the mediating mechanisms of creative self-efficacy and passion for invention (Bagheri and Harrison, 2020). In small and medium-sized companies, findings have indicated that entrepreneurial leadership exerts a significant and positive impact on the innovative work behavior of employees (Akbari *et al.*, 2021).

2.5 Entrepreneurial Leadership and Work Engagement

The literature review on the link between entrepreneurial leadership and work engagement allows us to identify studies that have tested hypotheses between different leadership styles and work engagement. For instance, Amor *et al.* (2020) found that transformational leadership is a significant predictor of work engagement.

Other studies have confirmed, through their hypotheses, the positive and significant effect between authentic leadership and work engagement (Giallonardo *et al.*, 2010; Leal *et al.*, 2021; Oh *et al.*, 2018), between ethical leadership and work engagement (Ahmad and Gao, 2018; Asif *et al.*, 2019), between servant leadership and work engagement (Cai *et al.*, 2018), and between entrepreneurial leadership and organizational engagement, the latter being different from work engagement.

Rahmadani and Schaufeli (2022) confirm the importance of leadership on engagement; they found that transformational and engaging leadership have a positive relationship with work engagement. Schaufeli (2021) asserts that engaging leadership relates to the different mechanisms (such as motivation) that a leader can exert on employees so that they commit to their work.

2.6 Work Engagement and Innovative Work Behavior

Different researchers have linked the constructs work engagement and innovative work behavior. Agarwal *et al.* (2012) showed that, in service sector firms from India, work engagement is positively correlated with innovative work behavior. In the same way, in manufacturing and pharmaceutical firms, findings have revealed that job engagement significantly influences the innovative work behavior of employees (Agarwal, 2014). In the banking sector, Garg and Dhar (2017) found that the exchange between the leader and the employee has a positive effect on the innovative work behavior, work engagement being a mediator variable on this relationship.

Moreover, Park *et al.* (2014) studied the manufacturing sector in Korea, concluding that work engagement significantly influences the innovative work behavior of employees. Another study conducted with a variety of US and Canadian employees

from the architecture, design, communication, marketing, and technology industries showed that work engagement is positively related to innovative work behavior (Montani *et al.*, 2019).

Additionally, Kwon and Kim (2020) illustrate, in an integrative literature review, that employees that experience engagement at work, tend to behave innovatively at work, as they react positively to challenges. Similarly, Mulligan *et al.* (2021), prove that engagement is one of the mechanisms towards innovation at work.

2.7 Entrepreneurial Leadership, Work Engagement and Innovative Work Behavior

An entrepreneurial leader takes risks, influences and guides the performance of employees (Renko *et al.*, 2015), and encourages them to understand the needs of the organization by working creatively and innovatively (Fontana and Musa, 2017). This type of leader also motivates employees to be committed to their work, inspires positive emotions, conciliation, trust, and communication, stimulates work engagement (De-la-Calle-Durán and Rodríguez-Sánchez, 2021), and demonstrates passion for generating new ideas (Bagheri and Harrison, 2020).

Empirical results have revealed that the behavior of entrepreneurial leaders produces a positive effect on innovative work behavior (Akbari *et al.*, 2021; Bagheri and Harrison, 2020) and that work engagement exerts a positive impact on innovative work behavior (Agarwal, 2014; Garg and Dhar, 2017; Montani *et al.*, 2019). These arguments and findings issued by academics and researchers provide high-quality information inferring that there is a relationship between entrepreneurial leadership, work engagement, and innovative work behavior. However, the literature review highlights an empirical gap regarding the linkage of these three constructs.

2.7.1 Gender as a Moderation Variable

The use of control variables is relevant because it allows researchers to consider the effect of sociodemographic characteristics on the variables of interest in a study (Bernerth and Aguinis, 2015). This research addresses entrepreneurial leadership as a construct that is part of entrepreneurship, which can be determined by the personal characteristics of an individual, including sociodemographic traits such as gender, age, and educational background (Ge *et al.*, 2019). For instance, Hernaus *et al.* (2019) found that gender is a relevant predictor of innovative work behavior.

Therefore, in this research, we considered the inclusion of sociodemographic variables since other authors also use these variables in their study of entrepreneurial leadership (Cai *et al.*, 2019; Iqbal *et al.*, 2022; Kimbu *et al.*, 2021; Li *et al.*, 2020; Mehmood *et al.*, 2021), work engagement (Amor *et al.*, 2020; Garg and Dhar, 2017; Hakanen *et al.*, 2021; Iqbal *et al.*, 2022), and innovative work behavior (Knezović and Drkić, 2020; Li *et al.*, 2020; Newman *et al.*, 2017).

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2.7.2 Research Hypotheses

Based on the literature review, we proposed the following research hypotheses:

- H1: Entrepreneurial leadership has a positive impact on work engagement.
- H2: Entrepreneurial leadership has a positive impact on innovative work behavior.
- H3: Work engagement has a positive impact on innovative work behavior.
- H4: Work engagement has a mediating effect on the relationship between entrepreneurial leadership and innovative work behavior.
- H5: Gender has a moderating effect on the relationship between entrepreneurial leadership and innovative work behavior.

In covariance-based structural equation modeling (CB-SEM), hypotheses are represented by trajectories among the constructs. The hypothetical conceptual model presented in Figure 1 describes the relationship between the latent constructs entrepreneurial leadership (EL), work engagement (WE), and innovative work behavior (IWB).

Figure 1. Conceptual model



Source: Own study.

3. Methodology and Data

In Ecuador, the National Institute of Statistics and Censuses (INEC in Spanish), based on information from the Andean Community of Nations (CAN in Spanish), classifies firms according to their size, using the number of employees registered by the Ecuadorian Institute of Social Security (IESS in Spanish). A medium-sized firm has between 50 and 199 employees (Camino-Mogro and Avilés-Terán, 2019) and an annual income between USD\$1,000,000.01 and USD\$5,000,000.00, as specified by the Organic Code of Production, Commerce and Investments of Ecuador.

Moreover, according to the 2021 Annual Bulletin of the Central Bank of Ecuador, and the Manufacturing Industry Study of the Superintendence of Companies, the manufacturing sector makes a large contribution to the gross domestic product of Ecuador (GDP), being one of the most stable sectors with a high number of jobs in the country. Therefore, from the universe of medium-sized firms registered in the Database of the Superintendency of Companies of Ecuador (a total of 14,432 companies), we selected the firms from the manufacturing sector (526 firms) that function in Guayaquil and Quito. We only considered these two cities because they are the main cities in the country with the highest concentration of jobs in Ecuador (62%).

Afterwards, we sent an email, explaining the data collection process, to the managers of the firms that had updated their information in the database, obtaining a response rate of 9%. This low level of willingness to participate in the study can be related to confidentiality issues, according to Iqbal *et al.* (2022) and Shujahat *et al.* (2018). We obtained the sample using a simple random probabilistic sampling process, in which each company had the same probability of participating (Verma and Verma, 2020).

Finally, we obtained 312 valid questionnaires from the 394 responses; we did not consider incomplete questionnaires as missing data would compromise the analyses. Authors such as Hair *et al.* (2018) and Kline (2016) considered that a sample size greater than 250 is sufficient in CB-SEM to minimize the impact of sampling error. In this sense, the sample of the present study is considered adequate to carry out the analysis and verify the research hypotheses (Gomer *et al.*, 2019).

3.1 Measures

We used the scale of Renko *et al.* (2015), the Entrepreneurial Leadership (ENTRELEAD) Scale, for the measurement of the entrepreneurial leadership variable. According to the authors, it reflects the perceptions of the entrepreneurial leadership characteristics of a firm's leaders. The scale was translated into Spanish and to verify the conceptual equivalence of the translated scale, this means, the original meaning of the questions, we made a back-translation from Spanish to English (Cunningham *et al.*, 2019). The instrument consists of eight items, for example "My manager often comes up with radical improvement ideas for the products/services we are selling." The questionnaire uses a Likert frequency scale from 1 to 5: 1 ("totally disagree"), 2 ("disagree"), 3 ("neither agree nor disagree"), 4 ("agree"), and 5 ("totally agree").

For the work engagement construct, we used the work engagement scale or the Utrecht Work Engagement Scale (UWES) developed by Schaufeli and Bakker

(2003), translated into several languages, including Spanish. The 17-item questionnaire considers the feelings of people at work, and assesses three aspects: (1) vigor (six items, for example "At my job, I feel strong and vigorous"), (2) dedication (five items, for example "I am proud of the work that I do"), and (3) absorption (six items, for example "I am immersed in my work"). The questionnaire also uses a Likert frequency scale from 1 to 5: 1 ("totally disagree"), 2 ("disagree"), 3 ("neither agree nor disagree"), 4 ("agree"), and 5 ("totally agree").

To measure innovative work behavior, we used Janssen's (2000) scale, recently translated into Spanish by Salessi (2021). This instrument, that is composed of 9 items, assesses three dimensions: (1) idea generation (three items, for example "I generate original solutions to labor problems"), (2) idea promotion (three items, for example "I make important organizational members enthusiastic about innovative ideas"), and (3) idea realization (three items, for example "I introduce innovative ideas into the work environment in a systematic way"). The questionnaire uses a Likert frequency scale from 1 to 5: 1 ("totally disagree"), 2 ("disagree"), 3 ("neither agree nor disagree"), 4 ("agree"), and 5 ("totally agree").

Besides the scales used for the questionnaire, we included the data corresponding to the description of the sample, such as the socio-demographic control variables gender, age, and educational level. The first is used as a moderating variable.

3.2 Data Analysis

We analyzed the data in three stages, processing them with the statistical programs SPSS 26 (IBM Corp., 2019) and AMOS 26 (Arbuckle, 2019). First, we carried out a descriptive and inferential analysis. Second, we examined the psychometric properties of the measurement scales to obtain evidence of validity based on the internal structure of the instrument. For this procedure, the covariance-based structural equation model (CB-SEM) was used, and, to carry out the confirmatory factor analysis (CFA), we used the estimation method of maximum likelihood.

From the results obtained, we evaluated the convergent and discriminant validity and the reliability (Ferrando *et al.*, 2022). As the third stage, we used CB-SEM once more to evaluate the proposed theoretical model. We chose CB-SEM instead of structural equation modeling based on partial least squares (PLS-SEM) since this study adopted an explanatory and confirmatory approach based on theory (Hair, Babin, and Krey, 2017; Hair *et al.*, 2017). Subsequently, the results are reported according to the reporting standards for non-experimental studies (Appelbaum *et al.*, 2018).

4. Results

The study population consisted of 312 workers from manufacturing firms, of whom 57% (n = 178) are from Guayaquil and 43% (134) are from Quito. Most employees

are male (61%), and 86% of them are between 18 and 45 years old. Moreover, 89% of the workers have not exceeded the level of secondary education.

4.1 Descriptive and Inferential Analysis of the Constructs

In Table 1, we display the descriptive statistics for the dimensions evaluated. There are no missing data, and, through the Mahalanobis distance, we could not detect any outliers that could bias the results (Byrne, 2016). A higher average score toward the superior options (agree) and moderate dispersion between the data can be observed. The skewness and kurtosis values are within the expected limit according to the criteria of Finney and DiStefano (2006), according to whom the maximum values allowed are ± 2 for skewness and ± 7 for kurtosis. Thus, the data exhibited a distribution within the limits of univariate normality.

Furthermore, the value of the coefficient of Mardia (1970), based on the asymmetry and kurtosis, is 15.9. Hence, we found evidence of the fulfillment of the assumption of multivariate normality since it is lower than the 224 suggested by Bollen (1989) based on the equation p (p + 2), where p is the number of variables observed in the CB-SEM model. The correlations between the dimensions are below 0.9, demonstrating the absence of multicollinearity.

Variables	1	2	3	4	5	6	7
1. Entrepreneurial	-						
leadership (EL)							
2. Vigor	0.300**	-					
3. Dedication	0.282**	0.614**	-				
4. Absorption	0.408**	0.678**	0.606**	-			
5. Idea generation (IG)	0.665**	0.383**	0.250**	0.431**	-		
6. Idea promotion (IP)	0.575**	0.395**	0.265**	0.453**	0.772**	-	
7. Idea realization (IR)	0.655**	0.410**	0.257**	0.457**	0.688**	0.718**	-
Arithmetic mean	3.54	3.09	3.06	3.25	3.17	2.74	3.28
Typical deviation	1.35	0.94	0.86	0.93	0.62	1.37	1.39
Asymmetry	-0.40	0.52	-0.09	0.22	-1.56	0.42	-0.65
Kurtosis	-1.20	-0.40	-0.54	-0.49	-1.52	-1.08	-0.95

Table 1. Descriptive results for the dimensions of the constructs (N = 312)

Note: ** *p* < 0.01.

Source: Own study.

Table 2 contains the results of the evaluation of the models that represents the items of (1) entrepreneurial leadership, (2) work engagement, (3) innovative work behavior, and (4) the average of the items for the latent constructs entrepreneurial leadership, work engagement, and innovative work behavior. The comparative fit index (CFI) ≥ 0.90 is favorable evidence of model fit (Bentler, 1990; Hu and Bentler, 1999), which is accomplished in all the models evaluated. Regarding the root mean square error of approximation (RMSEA) and the standardized root mean squared residual (SRMR), we also obtained favorable evidence for the four models

 (≤ 0.08) (MacCallum *et al.*, 1996). Consequently, the four models show an adequate fit with the indices suggested by the literature.

Measurement model	$\chi^2_{(gl)}$	p	CFI	RMSEA	SRMR
(1) Entrepreneurial leadership (EL)	86.15 (20)	p < 0.000	0.955	0.059	0.025
(2) Work engagement (WE)	195.25 (116)	p < 0.000	0.973	0.048	0.050
(3) Innovative work behavior (IWB)	30.15 (24)	p < 0.000	0.997	0.029	0.023
(4) $EL + WE + IWB$	160.76 (74)	p < 0.000	0.973	0.063	0.036

Table 2. Fit indices for the measurement models

Source: Own study.

4.2 Validity and Reliability

Model 4 is the one that we consider to obtain the construct validity. We use the standardized factor loadings as input for convergent and discriminant validity and reliability estimation. Hair *et al.* (2018) suggested individual standardized factor loadings of ≥ 0.7 , a value of $\ge 50\%$ for the average variance extracted (AVE), and a minimum threshold of 0.7 for adequate reliability of the construct by means of Cronbach's alpha coefficient (α) and composite reliability (CR).

The standardized factor loadings for model 4 present values above 0.7. At the bottom of Table 4, the AVE of each latent construct exceeds the criterion of 0.5. Likewise, the reliability coefficients (CR and α) are all above 0.7, suggesting adequate internal consistency (Cho, 2016). These results support the evidence of convergent validity of the measurement model.

Regarding discriminant validity, in Table 3, we show the correlations between the latent constructs (model 4) in the lower diagonal and the squared correlations between those constructs in the upper part. According to Hair *et al.* (2018), to establish discriminant validity, the AVE estimates of each construct are compared with the squared correlations between constructs, which must be less than their associated AVE.

In Table 3, all the AVE estimates are greater than their corresponding squared estimates. Thus, this result indicates that there are no problems with discriminant validity. Furthermore, since there are no cross-loadings or correlated errors, there is almost no evidence against discriminant validity. Therefore, these findings prove the discriminant validity of the measurement model.

	1. EL	2. WE	3. IWB
1. Entrepreneurial leadership (EL)	-	0.28	0.58
2. Work engagement (WE)	0.53***	-	0.29
3. Innovative work behavior (IWB)	0.76***	0.54***	-

 Table 3. Convergent and discriminant validity of the constructs

Average variance extracted (AVE)	60.2%	67.8%	89.4%	
Composite reliability (CR)	0.82	0.76	0.86	
Alpha (<i>a</i>)	0.79	0.73	0.81	

Note: Values below the diagonal are estimates of correlations between constructs, and values above the diagonal are squared correlations. **** p < 0.001. **Source:** Own study.

4.3 Evaluation of the Proposed Model

In Figure 2, we show the structural equation model evaluated. To estimate the parameters of the structural model, obtain the fit indices, and undertake a review to assess whether the structural relationships (trajectories) are consistent with the theoretical expectations, we used CB-SEM and maximum likelihood as the estimation method.

The fit indices (χ^2 (74) = 160.76; χ^2/df = 2.17; p < 0.001; CFI = 0.973; RMSEA = 0.063; SRMR = 0.036) suggest that the model has an adequate fit. Thus, with these data, the results reflect the empirical evidence of the theoretical model.

Figure 2. Conceptual model of the factors that explain the mediation of work engagement in the relationship between entrepreneurial leadership and innovative work behavior



Note: Developed using IBM SPSS v26 and AMOS v26. Source: Own study.

Table 4 shows the structural model results of the first three research hypotheses of the study. When examining the estimated standardized factor loadings for the structural relationships of the theoretical model, we can observe moderate values, which are statistically significant and in the expected direction. The explained

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variability (R^2) of innovative work behavior is 57%, and that of work engagement is 25%. In this sense, the three hypotheses are supported.

Hypothesized Relationships	Standardized	t-values	Hypothesis
	Estimates		Supported
H1: Entrepreneurial leadership \rightarrow work	0.50	10.79	Supported
engagement			
H2: Entrepreneurial	0.63	14.84	Supported
leadership \rightarrow innovative work behavior			
H3: Work engagement → innovative work	0.42	9.72	Supported
behavior			
Squared multiple correlation (R ²):			
Work engagement	0.25		
Innovative work behavior	0.57		
Commente de			

Table 4. Structural model test results

Source: Own study.

4.3.1 Work Engagement Mediation

We decompose the direct and indirect effects to determine the magnitude of the mediation effect (Hair *et al.*, 2018). Table 5 shows the mediation analysis, which reveals a statistically significant indirect effect of low magnitude in the expected direction of work engagement, therefore supporting H4. Additionally, we find that the direct effect of entrepreneurial leadership on innovative work behavior is statistically significant, supporting H2. Therefore, work engagement has a partial mediating effect on the relationship between entrepreneurial leadership and innovative work behavior.

Hypothesized	Direct	Indirect	Confi	dence	р	Hypothesis
Relationships	Effect	Effect	Inte	erval		Supported
			Low	High		
H4:Entrepreneurial	0.628	0.229	0.149	0.309	0.004	Supported
leadership→work	(0.000)					
engagement→innovativ						
e work behavior						

Table 5. Bootstrap mediation test and 95% confidence interval

Note: The values in the table represent standardized effects. Source: Own study.

4.3.2 Gender Moderation

The moderation of gender in the relationship between entrepreneurial leadership and innovative work behavior was examined using multigroup analysis (Byrne, 2008). The theory suggests a gender difference in this relationship, so the magnitude of the relationship would be greater for women than for men. Previously, an invariance analysis was performed according to gender, guaranteeing metric invariance. This was enough to assess the moderation of gender in entrepreneurial leadership's effect on innovative work behavior. Table 6 presents the results of the moderation. The second column reports the structural model without restrictions and the third column the restricted model. Both models show acceptable fit indices (CFI and RMSEA). The chi-square difference $\Delta \chi^2$ between the models is statistically significant, suggesting that the restricted model has a lower fit. This result suggests that gender moderates the relationship between entrepreneurial leadership and innovative work behavior.

Table 6. Gender moderation test between entrepreneurial leadership and innovative work behavior

Model Features	Unconstrained Group Model	Restricted Group Model	Difference of the Models
Model fit (gender)			
$\chi^2(gl)$	282,029 (149)	275,882 (148)	6,147 (1); <i>p</i> = 0.013
IFC	0.943	0.932	-
RMSEA	0.055	0.064	-

Note: Estimation values are standardized. Source: Own study.

In Table 7, we show that the standardized loadings for the model without restrictions are statistically significant in both groups. Indeed, the impact is slightly higher for women than for men. Thus, empirical support is found for H5.

Table 7. Gender moderation between entrepreneurial leadership and innovative work behavior

Hypothesized Relationships	Standardized	t-Values	Hypothesis
	Estimates		Supported
H5: Entrepreneurial	0.511 (female)	4,242	Supported
leadership \rightarrow innovative work	0.350 (male)	5,507	
behavior			

Source: Own study.

5. Discussion and Conclusions

The findings of this research demonstrate that the proposed hypotheses are statistically significant. We found a significant positive relationship between entrepreneurial leadership and work engagement, which fills the empirical gap that was identified in the literature review of this study. Therefore, hypothesis 1 (H1) is accepted; this is supported by the previous research carried out by Cai *et al.* (2018), Leal *et al.* (2021), and Lisbona *et al.* (2018) on the different types of leadership and work engagement. The results also reveal that the positive relationship between entrepreneurial leadership and innovative behavior is significant, validating hypothesis 2 (H2). Similar results were obtained by Li *et al.* (2020) and Newman *et al.* (2018) in China, Newman *et al.* (2017) in Australia, Canada, and the United Kingdom, and Bagheri and Akbari (2018) in Iran.

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Likewise, there is a positive impact of work engagement on innovative work behavior, which leads to the acceptance of hypothesis 3 (H3). This finding is consistent with other research that has presented the same result, showing that committed employees experience emotions such as happiness, joy, interest, and enthusiasm in their work, which constitute the motivational basis on which to

committed employees experience emotions such as happiness, joy, interest, and enthusiasm in their work, which constitute the motivational basis on which to promote innovative work behavior (Agarwal *et al.*, 2012). Additionally, engaged employees may experience a better relationship with their supervisors, ensuring greater support for new ideas (Garg and Dhar, 2017; Montani *et al.*, 2019).

Regarding mediation, hypothesis 4 (H4) is accepted; we verified that work engagement indeed has a mediating effect on the relationship between entrepreneurial leadership and innovative work behavior. Empirical results have shown separately that entrepreneurial leadership has a positive effect on innovative work behavior (Li *et al.*, 2020) and that work engagement produces a positive effect on innovative work behavior (Agarwal, 2014; Garg and Dhar, 2017). The link between the three constructs has not previously been tested empirically; however, theoretically, it is known that there is a relationship between these variables.

Additionally, we demonstrated that gender moderates the relationship between entrepreneurial leadership and innovative work behavior. The impact was found to be stronger for women than for men. The standardized loading is 0.511 for women and 0.350 for men. This result is supported by studies that have found an incidence of gender as a moderator between transformational leadership and innovative work behavior (Reuvers *et al.*, 2008).

Moreover, our findings support Kimbu *et al.* (2021), who indicated that the universal gender assumptions that suggest that men can be more successful in management do not hold in certain contexts; these authors feminized trust and recognized it as favorable for the activities of entrepreneurial leadership. Likewise, Anambane and Adom (2018) described how culture and political structures, rather than an inability to manage, limit the business performance of female entrepreneurs. Hence, it is relevant to promote the creation of networks or clusters that are specifically aimed at promoting the innovative behavior of women as a way to drive business growth (Ngoasong and Kimbou, 2019).

This study is the first to evaluate empirically the mediating effect of work engagement on the relationship between entrepreneurial leadership and innovative work behavior. The evidence found in this study generates relevance for future studies to determine whether the sum of the professional skills of an employee is related to their innovative work behavior or whether it is limited to the aspect of generating creative ideas (Newman *et al.*, 2017). Besides, the results of this novel study on the relationship between the aforementioned constructs create the opportunity for other researchers to validate them in other contexts and in other economic sectors, being able to incorporate gender as a control variable.

This research contributes results that can be taken as a guide for the entrepreneurial management of companies. It approaches an evaluation of the incidence that the three constructs of this study may have in organizations and the importance of their application in management as one of the guidelines to avoid failure (Baque *et al.*, 2020; Kimbu *et al.*, 2021).

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