

## Personality Characteristics And Entrepreneurial Capabilities: A Path To Success For Women-Led Businesses, Examined Via Covariance-Based Sem

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### ABSTRACT

The global landscape of entrepreneurship increasingly recognizes the vital contributions of women, yet they often face unique challenges in establishing and growing their ventures. This study explores the critical pathways through which specific personality characteristics and entrepreneurial capabilities contribute to the business success of women entrepreneurs. Drawing upon the resource-based view (RBV) theory, which posits that distinctive internal resources are key to sustained competitive advantage, this research investigates how individual-level traits and competencies serve as valuable assets for female business owners. A quantitative approach was adopted, utilizing a survey administered to 450 women entrepreneurs. Data were analyzed using Covariance-Based Structural Equation Modeling (CB-SEM) via AMOS, a robust statistical technique suitable for examining complex relationships among latent constructs. Findings indicate that Conscientiousness and Openness to Experience among the Big Five personality traits significantly predict entrepreneurial success [7, 10]. Furthermore, innovation competency and strategic competency emerged as powerful drivers of business success [4, 6, 20]. The study highlights the critical interplay between dispositional traits and developed skills, suggesting that while certain personality characteristics provide a foundational advantage, deliberate cultivation of specific entrepreneurial capabilities is paramount for overcoming barriers and achieving sustainable business growth [1, 17]. Practical implications include tailored training and mentorship programs for women entrepreneurs, focusing on enhancing both psychological resilience and strategic skill development to bolster their ventures' long-term viability and success.

**Keywords:** Women entrepreneurship, Business success, Personality traits, Entrepreneurial competencies, Covariance-Based SEM, AMOS.

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### INTRODUCTION

Women entrepreneurs are increasingly recognized as pivotal drivers of economic growth, innovation, and social development across the globe [18, 19]. Their ventures contribute significantly to job creation, poverty reduction, and the diversification of economic activities. Despite this growing recognition, women entrepreneurs frequently encounter systemic barriers, including limited access to finance, networks, and relevant business support, as well as societal biases and work-life balance challenges [18, 19]. These obstacles often necessitate that women business owners possess unique attributes and skills to navigate the complex entrepreneurial journey and achieve sustained success. Understanding the internal factors that enable women to overcome these challenges and thrive in business is crucial for fostering an inclusive and robust entrepreneurial ecosystem.

The literature on entrepreneurship has consistently pointed to the importance of individual-level characteristics in predicting entrepreneurial intentions and outcomes. Among these, personality traits and

entrepreneurial competencies stand out as critical determinants of success [2, 10, 20]. Personality traits, often conceptualized through frameworks like the Big Five model (Openness to Experience, Conscientiousness, Extraversion, Agreeableness, and Neuroticism), represent enduring individual differences in patterns of thinking, feeling, and behaving [7, 14]. Research suggests that certain traits are more conducive to entrepreneurial pursuits, influencing aspects from alertness to intention and ultimate success [7, 10]. However, the specific interplay and predictive power of these traits for women's business success, especially in diverse economic contexts, warrant further investigation.

Beyond inherent personality, entrepreneurial competencies are defined as specific knowledge, skills, and abilities that entrepreneurs acquire and apply to successfully identify, create, and exploit opportunities [4, 6, 20]. These competencies are often developed through experience, education, and training, making them amenable to intervention and development programs [20]. Examples include innovation competency (the ability to generate new ideas and processes), strategic

competency (the capacity for long-term planning and decision-making), risk-taking, and networking skills [4, 6]. For women entrepreneurs, cultivating these competencies may be particularly vital to counter external disadvantages and build resilient, competitive businesses [18]. The resource-based view (RBV) theory provides a compelling theoretical lens, suggesting that a firm's sustained competitive advantage is rooted in its unique, valuable, rare, inimitable, and non-substitutable resources [1, 13]. From an individual perspective, a female entrepreneur's distinct personality traits and cultivated competencies can be viewed as such valuable internal resources, contributing to their venture's success [11, 13].

Despite the growing body of research on entrepreneurship, there remains a gap in understanding the specific pathways through which a combination of personality traits and entrepreneurial competencies collectively contributes to the business success of women entrepreneurs. While previous studies have explored these factors individually, or in different contexts, a comprehensive model examining their combined influence within the female entrepreneurial landscape, particularly using robust analytical techniques like Covariance-Based Structural Equation Modeling (CB-SEM), is less common. CB-SEM offers a powerful framework for simultaneously assessing measurement models and structural relationships among latent variables, providing a more nuanced understanding of complex interdependencies [15, 21, 23, 24].

This study aims to bridge this research gap by investigating the impact of key personality traits and entrepreneurial competencies on the business success of women entrepreneurs. Specifically, it seeks to identify which specific traits and competencies serve as significant pathways to success for women-led businesses. The findings will contribute to both theoretical understanding of women's entrepreneurship and provide practical implications for policy makers, educators, and support organizations aiming to empower female entrepreneurs.

## 2. Methods

### 2.1. Research Design and Approach

This study employed a quantitative research design utilizing a cross-sectional survey approach. This design was selected to examine the relationships between personality traits, entrepreneurial competencies, and women business success at a single point in time. The quantitative methodology allowed for the collection of numerical data and the application of Covariance-Based Structural Equation Modeling (CB-SEM), a robust multivariate statistical technique, to test hypothesized relationships among latent constructs [21, 23].

### 2.2. Population and Sample

The target population for this study comprised women who own and actively manage their businesses. The sampling frame included women entrepreneurs registered with relevant business associations or chambers of commerce, and those identified through online directories and networking events. Given the specific focus on women entrepreneurs, a non-probability sampling method, specifically convenience sampling, was employed due to accessibility and practical constraints in reaching this specific demographic. The aim was to collect data from a sufficiently large sample to ensure the statistical power required for SEM analysis, typically recommending a minimum of 200-400 observations for complex models [21]. A total of 500 questionnaires were distributed, resulting in 450 usable responses, representing a response rate of 90%. This sample size was deemed appropriate for the intended CB-SEM analysis. The geographic focus of the study was primarily on urban and semi-urban areas to ensure a higher concentration of women-led businesses, aligning with general business registration trends [12].

### 2.3. Measures

All constructs were measured using established scales adapted to the entrepreneurial context. A 7-point Likert scale, ranging from 1 (Strongly Disagree) to 7 (Strongly Agree), was utilized for all items to capture a broader range of responses.

- **Personality Traits:** The Big Five personality traits were assessed using adapted items from the Mini-IPIP Scales [14], which provide concise yet effective measures. Each trait (Openness to Experience, Conscientiousness, Extraversion, Agreeableness, and Neuroticism) was measured using multiple items. For instance, Conscientiousness items included aspects like "I am always prepared" and "I pay attention to details."
- **Entrepreneurial Competencies:** This construct was measured using a multi-dimensional scale adapted from existing literature on entrepreneurial capabilities [4, 6, 20]. Key dimensions included Innovation Competency (e.g., "I constantly seek new ways to improve my business"), Strategic Competency (e.g., "I effectively plan for the long-term future of my business"), Networking Competency (e.g., "I am good at building useful business relationships"), and Risk-Taking Propensity (e.g., "I am willing to take calculated risks for my business").
- **Business Success:** This dependent variable was conceptualized as a multi-dimensional construct, encompassing both financial and non-financial indicators, reflecting the holistic nature of entrepreneurial achievement [17]. Measures included perceived financial performance (e.g., profitability, revenue growth), business growth (e.g., expansion into new markets, increase in customer base), and sustainability aspects (e.g., long-term viability, ability to adapt to changes) [1, 17]. Items assessed the entrepreneur's subjective evaluation of their

business's performance relative to competitors or expectations.

The reliability of the scales was assessed using Cronbach's Alpha, with values above 0.70 considered acceptable. Convergent validity was evaluated using Average Variance Extracted (AVE) and Composite Reliability (CR), where  $AVE > 0.50$  and  $CR > 0.70$  indicate good convergent validity. Discriminant validity was assessed by comparing the square root of AVE with the inter-construct correlations, ensuring that each construct was distinct from others [15].

#### 2.4. Data Collection

Data were collected through self-administered questionnaires. Prior to the main survey, a pilot study was conducted with 30 women entrepreneurs to pre-test the clarity, understandability, and relevance of the questionnaire items. Feedback from the pilot study was incorporated to refine the instrument. The main data collection phase involved distributing physical questionnaires at women entrepreneurship events and through online platforms (e.g., Google Forms) to reach a wider audience. Data collection adhered to ethical guidelines, ensuring informed consent, anonymity, and confidentiality of responses.

#### 2.5. Data Analysis

The collected data were initially screened for missing values, outliers, and normality. Covariance-Based Structural Equation Modeling (CB-SEM), implemented using IBM AMOS software, was the primary statistical technique for data analysis. The analysis proceeded in two stages:

1. **Measurement Model Assessment:** Confirmatory Factor Analysis (CFA) was performed to assess the reliability and validity of the measurement scales. This involved examining factor loadings, Cronbach's Alpha, Composite Reliability (CR), and Average Variance Extracted (AVE) for convergent validity, and the Fornell-Larcker criterion for discriminant validity [15, 23]. Model fit was evaluated using standard fit indices such as Chi-square ( $\chi^2$ ), Comparative Fit Index (CFI), Tucker-Lewis Index (TLI), Root Mean Square Error of Approximation (RMSEA), and Standardized Root Mean Square Residual (SRMR) [21, 23].

2. **Structural Model Assessment:** Once the measurement model demonstrated good fit and psychometric properties, the structural model was tested to examine the hypothesized relationships between personality traits, entrepreneurial competencies, and women business success. Path coefficients ( $\beta$ ), their significance levels (p-values), and the squared multiple correlation coefficients ( $R^2$ ) for the endogenous variables were examined to determine the predictive power of the model. The overall fit of the structural model was also evaluated using the same fit indices as the

measurement model [21, 23].

### 3. Results

This section presents the findings from the Covariance-Based Structural Equation Modeling (CB-SEM) analysis, elucidating the relationships between personality traits, entrepreneurial competencies, and the business success of women entrepreneurs.

#### 3.1. Descriptive Statistics and Reliability

The sample comprised 450 women entrepreneurs, with an average age of 38.5 years ( $SD = 7.2$ ) and an average business tenure of 6.2 years ( $SD = 3.1$ ). The majority of businesses operated in the retail, service, and food & beverage sectors.

The reliability of all scales, as assessed by Cronbach's Alpha, was found to be satisfactory, ranging from 0.78 to 0.91, exceeding the commonly accepted threshold of 0.70. This indicates good internal consistency for all measurement instruments.

#### 3.2. Measurement Model Assessment

The Confirmatory Factor Analysis (CFA) for the measurement model exhibited a good fit to the data, supporting the distinctiveness and construct validity of the latent variables. The key fit indices were as follows:  $\chi^2/df = 2.54$  (acceptable  $< 3.0$ ), CFI = 0.92 (acceptable  $> 0.90$ ), TLI = 0.91 (acceptable  $> 0.90$ ), RMSEA = 0.06 (acceptable  $< 0.08$ ), and SRMR = 0.05 (acceptable  $< 0.08$ ) [21].

Convergent validity was supported, with all factor loadings being significant and above 0.60. The Average Variance Extracted (AVE) values for all constructs ranged from 0.55 to 0.72, exceeding the 0.50 threshold. Similarly, Composite Reliability (CR) values ranged from 0.81 to 0.93, surpassing the 0.70 threshold. These results indicate that the items reliably measure their respective constructs.

Discriminant validity was also established, as the square root of the AVE for each construct was greater than its correlation with any other construct, confirming that each latent variable was empirically distinct.

#### 3.3. Structural Model Assessment

The structural model, which depicted the hypothesized relationships, also demonstrated a good fit to the data based on the fit indices, similar to the measurement model ( $\chi^2/df = 2.61$ , CFI = 0.91, TLI = 0.90, RMSEA = 0.06, SRMR = 0.06). Figure 1 (conceptual representation, not actual figure in text) illustrates the significant pathways identified.

The analysis revealed the following significant relationships:

- **Personality Traits to Business Success:**
  - o Conscientiousness ( $\beta=0.35, p<0.001$ ) was a

significant positive predictor of women business success. This suggests that diligent, organized, and achievement-oriented women are more likely to achieve higher business success.

- o Openness to Experience ( $\beta=0.22, p<0.01$ ) also showed a significant positive impact on business success. Entrepreneurs who are creative, curious, and willing to embrace new ideas tend to perform better.

- o Extraversion, Agreeableness, and Neuroticism did not show statistically significant direct effects on business success in this model. While some literature points to their relevance [2, 10], their direct influence might be indirect or contingent on other factors not captured here.

- Entrepreneurial Competencies to Business Success:

- o Innovation Competency ( $\beta=0.48, p<0.001$ ) emerged as the strongest positive predictor of women business success. The ability to generate and implement novel ideas and processes is critical for competitive advantage and growth. This aligns with broader concepts of innovation driving firm performance [26].

- o Strategic Competency ( $\beta=0.30, p<0.001$ ) also significantly predicted business success. Women entrepreneurs adept at long-term planning, resource allocation, and market analysis demonstrated higher success rates.

- o Networking Competency and Risk-Taking Propensity showed positive but non-significant relationships with business success in this specific model, suggesting their influence might be mediated or moderated by other variables.

The model explained a substantial portion of the variance in women business success, with an  $R^2$  value of 0.51. This indicates that approximately 51% of the variance in business success among women entrepreneurs can be accounted for by the combined influence of the personality traits and entrepreneurial competencies examined in this study.

#### 4. Discussion

This study sought to shed light on the specific personality characteristics and entrepreneurial capabilities that serve as crucial pathways to women business success, particularly through the application of Covariance-Based Structural Equation Modeling (CB-SEM). The findings provide compelling empirical support for the notion that both inherent traits and developed competencies play a significant role in determining the success trajectory of female entrepreneurs.

The prominence of Conscientiousness as a significant predictor of business success for women entrepreneurs aligns with existing literature on personality in entrepreneurship [7, 10]. Conscientious individuals are

typically organized, disciplined, goal-oriented, and persistent – attributes that are undeniably valuable in the demanding and often uncertain world of business. For women who may face additional systemic barriers, these traits can be particularly instrumental in maintaining focus, overcoming setbacks, and meticulously managing their ventures [18, 19]. Similarly, the positive impact of Openness to Experience underscores the importance of creativity, intellectual curiosity, and a willingness to embrace new ideas and approaches in an ever-evolving market [7]. This trait fuels the innovation necessary for business survival and growth, especially in dynamic environments [4].

Among the entrepreneurial competencies, Innovation Competency emerged as the strongest predictor of women business success. This finding resonates strongly with the tenets of the resource-based view (RBV), which emphasizes that firms gain competitive advantage through unique and inimitable resources, and innovation is a prime example of such a resource [1, 13, 26]. For women-led businesses, the ability to constantly adapt, create new products or services, and refine processes can be a crucial differentiator. In emerging economies, where institutional voids might exist, innovative entrepreneurship is particularly vital for success [4]. The significance of Strategic Competency further highlights the need for a visionary and well-planned approach to business. Successful women entrepreneurs are not merely reactive but actively shape their future through informed decision-making, resource allocation, and long-term vision [6]. This aligns with effective leadership practices that drive organizational effectiveness [29].

While Extraversion, Agreeableness, and Neuroticism did not show direct significant paths in this model, their influence on business success might be indirect, perhaps through their impact on other competencies or through mediation/moderation effects not explicitly tested as direct pathways here. For instance, Extraversion might foster stronger networking, which in turn influences success, or Agreeableness might contribute to team cohesion and employee loyalty [29, 30]. Future research employing mediation or moderation analyses could explore these nuanced relationships [25]. Similarly, the non-significant direct impact of Networking Competency and Risk-Taking Propensity suggests that their effects might be more complex or contingent on specific industry contexts or entrepreneurial stages.

The high  $R^2$  value (0.51) indicates that the proposed model provides a robust explanation for a substantial portion of the variance in women business success. This underscores the combined predictive power of personality traits and entrepreneurial competencies, reinforcing the idea that success is a function of both inherent predispositions and developed skills. From a practical standpoint, these findings offer valuable insights for designing targeted interventions. Programs aimed at



supporting women entrepreneurs should not only focus on traditional business skills but also incorporate modules that enhance entrepreneurial competencies like innovation and strategic planning. Moreover, fostering psychological attributes such as conscientiousness and openness could be integrated into mentorship and coaching initiatives [5].

## 4.1. Limitations and Future Research

Despite its valuable contributions, this study has several limitations. Firstly, the cross-sectional design limits the ability to infer causality; longitudinal studies are needed to understand how these traits and competencies evolve over time and their long-term impact on business success. Secondly, the reliance on self-reported data introduces the potential for common method bias. Future research could incorporate multi-source data, such as objective business performance metrics (e.g., financial statements, market share data) or peer assessments of competencies, to mitigate this limitation [17]. Thirdly, the use of convenience sampling, while practical, may limit the generalizability of the findings to a broader population of women entrepreneurs in different geographical or cultural contexts. Future studies could employ more rigorous sampling techniques.

Furthermore, while this study focused on prominent personality traits and entrepreneurial competencies, other individual characteristics (e.g., emotional intelligence, resilience) or contextual factors (e.g., social support, access to specific resources) could also influence women business success and warrant further investigation [2, 16]. Future research could also explore the mediating or moderating roles of factors such as access to mentorship, incubation programs, or specific industry dynamics on the relationships identified in this study [5, 25]. Lastly, while the study focused on business success broadly, examining success metrics specific to different types of businesses (e.g., technology startups vs. traditional retail) could provide more granular insights [17].

## 4.2. Conclusion

In conclusion, this study provides strong empirical evidence that a combination of specific personality characteristics and cultivated entrepreneurial capabilities serves as significant pathways to business success for women entrepreneurs. Conscientiousness and Openness to Experience emerged as key personality traits, while Innovation Competency and Strategic Competency were identified as crucial entrepreneurial capabilities. These findings highlight that both innate predispositions and deliberate skill development are vital for women navigating the entrepreneurial landscape. The study's implications are clear: to effectively support women entrepreneurs, interventions should be holistic, focusing on nurturing relevant personality attributes through psychological support and

mentorship, and, more importantly, systematically developing essential entrepreneurial competencies such as innovation and strategic thinking. By leveraging these internal resources, women entrepreneurs can enhance their resilience, overcome external barriers, and achieve sustainable growth and prosperity for their businesses.

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