



Article The Impact of Entrepreneurship on Economic Growth within a City

Xiaoyan Huang * and Yuli Chen

Faculty of Business, City University of Macau, Macao 999078, China; b18091101461@cityu.mo * Correspondence: ellehuang@cityu.mo

Abstract: Entrepreneurship usually takes place in innovative systems, mostly in cities. Cities, with unique features, may alter the impact of entrepreneurship. This paper employs multiple regression models to assess the impact of entrepreneurship on economic growth, considering the moderation effect of the city context. We use Gross Domestic Product (GDP) as the dependent variable and government spending, labor, fixed and financial capital and entrepreneurship as the independent variables. The data are from the 2003–2017 yearbooks of Zhaoqing, Shantou and Meizhou (three cities with distinct cultural and geographic features in Guangdong, China). We conclude that (1) the three cities' GDPs highly rely on traditional factors of production (i.e., government spending, labor and fixed and financial capital) rather than entrepreneurship and (2) the city context of Meizhou is relatively unsupportive of its entrepreneurship contributing to the GDP, in comparison with that of Zhaoqing and Shantou. This study adds to the literature by empirically assessing and comparing three cities' entrepreneurship development in China; it also informs scholars and practitioners of the moderation effect of the city context.

Keywords: economic growth; local development; entrepreneurship; entrepreneurial ecosystem; moderation effect

1. Introduction

As West [1] put it: "If we therefore insist on continuous open-ended growth, not only does the pace of life inevitably quicken, but we must innovate at a faster and faster rate" (p. 31). To sustain the economy, we need continuous innovation and entrepreneurship, which usually takes place in cities. With tangible and intangible features, cities affect entrepreneurship efforts and outcomes in various ways. For example, a city's culture, as a place-specific feature, may bolster the city's entrepreneurial activities over a long period of time [2–6].

Studies on entrepreneurship and growth cover a wide range of fields (e.g., macroeconomy, microeconomy, economic welfare) at different geographic levels and across different areas [7,8]. At the country level, Van Stel et al. [9] estimates the macro-economic effects of entrepreneurship across 26 OECD countries and finds that the equilibrium rate of solo self-employment is independent of the levels of economic development and (both positive and negative) deviations from the equilibrium rate would diminish growth. Conversely, Nikolaev et al. [7] reveal that the levels of economic freedom are the strongest indicator for entrepreneurship based on a world sample of 73 countries. At the regional level, most studies focus on the role of entrepreneurial ecosystems [10–13] and the role of their components such as culture, geography and institutions [14–16].

This study assesses the impact of entrepreneurship on economic growth in three cities in China, considering the moderation effect of the city context (e.g., culture, geography, institution). The paper is organized as follows. Section 2 summarizes relevant literature on the relationship between entrepreneurship and economic growth as well as the measurement of entrepreneurship. Section 3 introduces the data source (three cities in Guangdong, China) and research method (multiple regression). Section 4 presents the results of multiple



Citation: Huang, X.; Chen, Y. The Impact of Entrepreneurship on Economic Growth within a City. *Businesses* **2021**, *1*, 142–150. https:// doi.org/10.3390/businesses1030011

Academic Editor: Lester Johnson

Received: 30 July 2021 Accepted: 10 September 2021 Published: 13 October 2021

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Copyright: © 2021 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (https:// creativecommons.org/licenses/by/ 4.0/). regression models. Section 5 discusses the findings, reflects on the method and links to the literature. Section 6 concludes the research.

2. Literature Review

In general, entrepreneurship promotes economic growth for its innovative nature [17–23]. As the neoclassical theories suggest, growth is mainly determined by fixed capital, financial capital, labor, technology and entrepreneurship [24,25]. Entrepreneurs promote growth by managing resources in new ways [26]. This innovative type of growth is more organic than the type of growth relying on physical capital. However, entrepreneurship may also curb growth [5,8,27]. It is understandable that as a popular term, it may attract more money and people than it truly deserves, resulting in an unreasonable allocation of resources.

The context (or ecosystem) may affect the relationship between entrepreneurship and economic growth. Theoretical and empirical studies have explored the components, conditions and processes of ecosystems conducive to or inhibitive of entrepreneurship [5,28–30]. For example, Isenberg [31] formulates six critical components of an entrepreneurial ecosystem (i.e., policy, finance, culture, supports, human capital and markets). The World Economic Forum [30] finds that access to markets and high-quality human and financial capital are favorable conditions for successful entrepreneurship. Recently, Stam and van de Ven [29] laid out the procedural structure of a theoretical ecosystem with three layers, that is, institutional arrangements, resource endowments and output (i.e., productive entrepreneurship), which suggests that entrepreneurship can be viewed as an emergent phenomenon in complex systems. Meanwhile, the ecosystem can also be considered as a context that moderates the relationship between entrepreneurship and growth [10,32]. In sum, the ecosystem may derive entrepreneurship or be the platform of the relationship between entrepreneurship and economic outcome.

To measure entrepreneurship, researchers mainly take five perspectives: self-employment, new firm formation, early-stage entrepreneurship, necessity entrepreneurship and opportunity entrepreneurship [33,34]. The first two (i.e., self-employment, new firm formation) apply to almost any entrepreneurship research, while the other three have special focuses. Entrepreneurship essentially means to create something new; self-employment can be considered as a sole proprietorship that encourages innovation. The new firm formation is an extended version of self-employment; it is a key metric because new ways of production are usually carried out by a firm. Early-stage entrepreneurship depicts the critical period of the life and death of entrepreneurial attempts; it is the main driver of growth, knowledge diffusion and new job creation [7,35,36]. Necessity and opportunity entrepreneurship discusses the causes and consequences for different types of entrepreneurship. Necessity entrepreneurship suggests that the entrepreneur aims to take advantage of a business opportunity. Additionally, entrepreneurship can be measured indirectly through innovation [35,37] or competition [38–40].

3. Data and Methods

3.1. Data

We use data from the 2003–2017 yearbooks of three cities, Zhaoqing (ZQ), Shantou (ST) and Meizhou (MZ) in Guangdong, China [41–43]. These cities have similar population sizes but distinct cultures and geographic features. Zhaoqing is the birthplace of Guangfu culture (e.g., embracing, metropolitan) and the Cantonese language, which is the official dialect in Guangdong province. The city has an area of about 15,000 square kilometers and a population of about 4.1 million, as of 2019; it is also the closest to the provincial capital, Guangzhou (about 110 kilometers away). Conversely, ST and MZ are located at about equal distance from the provincial capital (about 420 kilometers away). ST represents the Chaoshan culture (e.g., hardworking, business-oriented). It is a coastal city with a population size of about 4.2 million, as of 2019; its area size is about 2199 square kilometers, much smaller than the other two cities. MZ represents the Kejia culture (e.g., traditional,

self-sufficient). It is located in a remote mountainous area at the provincial border, with an area of about 15,865 square kilometers and a population of about 5.5 million, as of 2019.

3.2. Methods

According to neoclassical economic theories [24,25], growth is mainly determined by fixed capital, financial capital, labor, technology and entrepreneurship. We assume that the technology levels are unchanged in the study areas during the study period. We additionally take government spending into consideration since growth is measured by Gross Domestic Product (GDP). In other words, growth (GDP) is a function of fixed capital, financial capital, labor and government spending.

We use two models to assess the relationship between entrepreneurship and growth. Model 1 captures the relationship for individual cities (i.e., ZQ, ST, MZ), shown in Equation (1); Model 2 captures the overall characteristics of the relationship by combining the three cities (i.e., ZQ, ST, MZ), shown in Equation (2). By introducing city dummies, Model 2 allows comparisons among the individual cities. In Model 2, we consider the moderation (rather than mediation) effect of the city context on the impact of entrepreneurship on growth, shown in Figure 1. To operationalize the moderation effect, we add interaction terms between city dummies and entrepreneurship indicators to the equation. Note that Model 2 has three dummies for three cities—this is just for expression convenience. When two of the dummies are in operation, the last one will be omitted.



Figure 1. Research framework.

Model 1:

$$Y = \alpha + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \beta_5 X_5 + \beta_6 X_6 + \beta_7 X_7 + \beta_8 X_8 + \beta_9 X_9 + \varepsilon$$
(1)

Model 2:

$$Y = \alpha + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \beta_5 X_5 + \beta_6 X_6 + \beta_7 X_7 + \beta_8 X_8 + \beta_9 X_9 + \beta_{10} D_1 + \beta_{11} D_2 + \beta_{12} D_3 + \sum_{i=1}^{12} \sum_{j=1}^{3} \sum_{k=1}^{4} \varphi_i D_j X_k + \varepsilon$$
(2)

where,

Y—GDP

- X_k —Potential independent variables, k=1, 2... 9; see Table 1 for denotations.
- D_i —City dummies, j = 1, 2, 3; see Table 1 for denotations.
- α , β_i —Coefficients to be estimated, i = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.
- E—Error term

As shown in Table 1, we use nine potential variables to represent each of the four components suggested by neoclassical economic theories. Variables X_5 , X_8 and X_9 represent fixed and financial capitals; X_6 represents government spending; X_7 represents labor; and X_1 , X_2 , X_3 and X_4 represent entrepreneurship. X_1 and X_2 , two private enterprise metrics, can represent entrepreneurship because private enterprises own much autonomy compared to China's state-owned enterprises. The number of enterprises (X_1) also imply competition

(which affects innovation). X_2 is a substitute for self-employment rate and X_3 is a substitute for new firm formation rate, due to the lack of direct measurement data. X_4 measures how much a city emphasizes R&D, a key activity toward innovation.

Variable Type	Short Form	Denotation	Description		
Dependent variable	GDP	Y	GDP of a city		
Independent variable (representing entrepreneurship)	Private enterprises	X ₁	Number of private enterprises		
	Private employment ratio	X ₂	Employment ratio of private enterprise (private enterprise employment divided by total employment)		
	Increased enterprise ratio	X ₃	Net Increased enterprise ratios per employ (number of net Increased enterprise ratio divided by total employment)		
	Industrial R&D ratio	X4	Industrial R&D ratio (industrial R&D expenditure divided by industrial output)		
	Fixed capital	X ₅	Fixed asset investment		
	Government spending	X ₆	Government spending		
Controlling variables	Labor	X ₇	Total employment in the city		
(representing the main factors of production)	Deposits	X ₈	Local and foreign currency deposits by Chinese and foreign financial institutions		
	Loans	X9	Local and foreign currency loans by Chinese and foreign financial institutions		
City dummies	ZQ	D ₁	Zhaoqing city (with embracing and metropolitan features)		
	ST	D ₂	Shantou city (with hardworking and business-oriented features)		
	MZ	D ₃	Meizhou city (with traditional and self-sufficient features)		

Table 1. Description	of model	variables
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4. Results

As the descriptive statistics show, each city has a consecutive 15 years of data, ZQ's and ST's GDPs are over two hundred billion Yuan, twice that of MZ (Table 2). However, MZ's number of private enterprises (7014) is more than that of ZQ (6132) and less than that of ST (10971), which is not consistent with the ranks of the cities' GDP. This suggests that private enterprises in MZ might not be effective in adding value to the economy. Additionally, the industrial R&D ratio in MZ is quite low, 40% of that in ZQ and 0.3% of that in ST; this aligns with the traditional and self-sufficient culture in MZ.

As the correlation results show, each city's GDP is highly correlated with the traditional factors; the coefficients are generally over 0.8. Almost any of the traditional factors of production can be the sole predictor of GDP; the factors may also replace one another without compromising the fitness level of the model. Additionally, the city dummies ZQ and ST have similar correlation patterns but the city dummy MZ has negative correlations with all other variables, indicating that MZ's growth generally is less desirable than the other two cities.

	Short Form	GDP (100 Million Yuan)	Private Enter- prises Ratio	Private Employ- ment Ratio	Increased Enterprise Ratio	Industrial R&D Ratio	Fixed Capital	Government Spending	Labor	Deposits	Loans
	Variable	Y	X ₁	X ₂	X ₃	X_4	X ₅	X ₆	X ₇	X ₈	X9
	Obs.	15	15	15	15	15	15	15	15	15	15
	ZQ	1170.590	6132.333	0.134	2.920	0.005	683.344	139.639	213.970	1143.688	724.963
Mean	ST	1246.993	10,971.000	3.895	0.002	6.776	626.404	147.911	215.618	1907.485	769.994
	MZ	623.745	7014.867	0.118	4.650	0.002	276.198	167.357	211.738	958.773	430.419
	ZQ	661.845	2858.352	0.061	5.911	0.003	488.110	89.737	7.371	616.987	446.660
Std. [–] Dev. _–	ST	577.674	4097.959	5.907	0.001	5.121	588.795	96.778	29.395	854.117	368.520
	MZ	279.404	4260.679	0.044	6.432	0.001	227.622	130.248	2.422	542.376	258.963
	ZQ	328.301	1650.000	0.064	-16.234	0.002	114.660	31.900	193.860	392.660	232.129
Min	ST	498.425	5724.000	-12.960	0.001	0.554	119.240	44.540	163.490	802.430	421.364
	MZ	238.382	2476.000	0.041	-10.749	0.000	78.790	38.540	208.068	360.070	204.785
Max _	ZQ	2110.005	10,565.000	0.280	12.902	0.016	1497.550	271.154	221.306	2259.760	1501.964
	ST	2350.975	18,639.000	16.427	0.005	15.427	2006.400	331.633	239.757	3341.599	1551.715
	MZ	1075.425	16,901.000	0.177	15.985	0.004	806.770	395.175	216.547	2014.785	984.543

Table 2. Descriptive statistics.

Table 3 shows the estimation results of Model 1 and Model 2. Model 1 estimates the relationship for three cities individually. For ZQ, X_6 is the only explanatory variable. Given X_6 's correlation coefficient (0.996) with the GDP, the model's fitness (adjusted R-squared) remains over 99%. For ST, fixed and financial capital are the best predictors. MZ is the only city that has an entrepreneurship indicator, X_2 , among the best predictors. Interestingly, MZ's X_7 negatively affects GDP. Considering MZ as a remote city with traditional culture, this relationship can be explained by the city's transformation from low to high productivity, which reduces labor but increases GDP.

 Table 3. Regression results of Model 1 and Model 2.

	Dependent Variable: GDP				
		Model 2			
variable –	ZQ	ST	MZ	ZQ + ST + MZ	
Constant	145.34 (31.90)	108.71 (41.79)	1808.16 (624.68)	-747.03 (194.32)	
Private enterprises (X ₁)					
Private employment ratio (X ₂)		2641.86 *** (359.43)			
Increased enterprise ratio (X ₃)					
Industrial R&D ratio (X ₄)					
Fixed capital (X ₅)		0.24 *** (0.05)			
Government spending (X ₆)	7.34 *** (0.19)				
Labor (X ₇)			-8.56 ** (2.98)	4.39 *** (0.97)	

	Dependent Variable: GDP				
Mariah la		Model 2			
Variable –	ZQ	ST	MZ	ZQ + ST + MZ	
Deposits		0.52 ***	0.33 ***		
(X ₈)		(0.04)	(0.03)		
Loans				1.35 ***	
(X ₉)				(0.04)	
ZQ					
(D ₁)					
ST					
(D ₂)					
MZ					
(D ₃)					
Interaction between				0 02 ***	
entrepreneurship (X_1, X_2, X_3, X_4)				(0.00)	
and city dummy				$X_1 * D_2$	
$(D_1, D_2, D_3)(X * D)$				$\mathcal{M}_1 \mathcal{D}_3$	
Adj. R ²	0.99	0.99	0.99	0.97	
Obs.	15	15	15	45	

Table 3. Cont.

Note: * *p* < 0.1; ** *p* < 0.05; *** *p* < 0.01.

Model 2 estimates the relationship for three cities combined. The result shows that (1) overall, a city's labor (employment size) and financial loans positively contribute to its GDP; and (2) the number of private enterprises in MZ contributes slightly less to its GDP than those in ZQ and ST, indicated by the interaction term between X_1 (number of private enterprises) and MZ (city dummy). In other words, the moderation effect of the city context in MZ hampers the impact of entrepreneurship on growth.

5. Discussion

This research finds that traditional factors of production are still the main contributors to each city's GDP and that the number of private enterprises in MZ contributes slightly less to its GDP than those in ZQ and ST. The first result is expected. Since they are the third-tier cities in China, it is understandable that their regional entrepreneurship has not played a key role in economic activity. As for the second result, it is also expected, since MZ is remotely located in the inland mountainous area, unlike Zhaoqin and Shantou. After all, access to markets is one of the crucial factors for successful entrepreneurship [5,30,44]

The research design of this study is similar to that of Belitski and Desai [10], which assessed the relationship between creativity and urban economic development considering the moderation effect of the melting pot environment (as one of its hypotheses, i.e., H1b). In other words, the city context or melting pot environment (both are synonyms for the entrepreneurial ecosystem) plays a moderation role in the relationship between factors of production (including entrepreneurship) and economic outcome. However, the entrepreneurial ecosystem may also derive productive entrepreneurship directly [5]. Therefore, the entrepreneurial ecosystem may play two roles at the same time, i.e., generating entrepreneurship and moderating the relationship between entrepreneurship and the economic outcome.

When it comes to the selection of independent variables, this study relies on the traditional factors of production and a few entrepreneurship indicators. This enables a clear comparison between the roles of the traditional factors and entrepreneurship. As it turns out, the entrepreneurship indicators are not significant contributors to the GDP. This is not surprising, as we use linear regression models to assess the relationship. As Fritsch

and Fritsch [21] points out, among the two main methods in the literature, while production functions could not render a causal relationship, linear regressions (usually with lags) may underestimate the impact of entrepreneurship because growth may be attributed to labor and capital rather than entrepreneurship (the way the two are organized). Note that we also have tried regression models with 1-year lags; the results are the same as reported in this paper without the lags.

The limitation of this research lies in the selection and measurement of the variables. Firstly, it does not include variables representing the role of entrepreneurs and their networks (e.g., support systems and mentors, education and training, major universities), as indicated in the literature [30,44]. Instead, this research generalizes the ecosystem as a dummy variable. Additionally, the measurement of the variables is coarse due to the lack of data. The scope and accuracy of data are relatively underdeveloped in the study area.

6. Conclusions

This research explores the relationship between regional entrepreneurship and economic growth, considering the moderation effect of the city context. We estimate the relationship for three cities separately (Model 1) and combined (Model 2). On the one hand, the regression results for individual cities reveal that traditional factors of production are still the main contributors to each city's GDP. On the other hand, the result for the combined three-city sample shows the overall and comparative characteristics of the relationship. Overall, the labor and financial capitals are the main contributors to the GDP. Comparatively, the negative coefficient of the interaction term (between the number of private enterprises and MZ) suggests that the number of private enterprises in MZ contributes slightly less to its GDP than those in ZQ and ST.

We conclude that (1) the three cities' GDPs highly rely on traditional factors of production (i.e., government spending, labor and fixed and financial capital) rather than entrepreneurship and (2) the city context of Meizhou is relatively unsupportive of its entrepreneurship contributing to the GDP, compared with that of Zhaoqing and Shantou. To advance this research, we may look into the people, networks and institutions within an ecosystem especially the role of entrepreneurs [5], as well as their impact on the economy. The immediate next step is to explore the two roles of an entrepreneurial ecosystem, that is, generating entrepreneurship and moderating the relationship between entrepreneurship and the economic outcome.

Author Contributions: X.H. conceived the idea, analyzed the data and wrote the paper; Y.C. helped define the variables and collected the data. Both authors have read and agreed to the published version of the manuscript.

Funding: This research was funded by MACAO FOUNDATION, grant number MF2014.

Institutional Review Board Statement: Not applicable.

Informed Consent Statement: Not applicable.

Data Availability Statement: The data that support the findings of this study are openly available in Statistical Yearbooks at https://www.shantou.gov.cn/tjj/tjsj/tjnj/index.html; https://www.zhaoqing.gov.cn/xxgk/tjxx/tjnj/; https://www.meizhou.gov.cn/zwgk/sjfb/tjnj/.

Conflicts of Interest: The authors declare no conflict of interest. The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript, or in the decision to publish the results.

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