Essays on Money and Finance: Evidence for China

By

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Preface

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# Table of Contents

Introduction .......................................................... 11

## Chapter 1
**Financial Sources and Economic Growth: 
Firm-Level Evidence from Chinese Manufacturing Industry** 13

1.1 Introduction ................................................... 13

1.2 Firms’ Financing Sources .................................... 17
   1.2.1 Aggregate Level .......................................... 17
   1.2.2 Formal Financial System ................................... 19
   1.2.3 Alternative Financial Sector ................................. 21
   1.2.4 Interest Rate Regulation and My Classification ................. 24

1.3 Data Description and Summary Statistics ....................... 26
   1.3.1 Different Financing Sources ................................. 28
   1.3.2 Interest Expense Rate ...................................... 32
   1.3.3 Comparison with Existing Literature .......................... 35
   1.3.4 Firm Performance and Control Variables ....................... 36

1.4 Informal Financing and Firm Performance ....................... 38
   1.4.1 Endogeneity of Informal Financing Decision .................. 39

1.5 Empirical Results ............................................... 40
   1.5.1 Informal Finance and Firm Performance ....................... 40
   1.5.2 Informal Finance and Firm Performance: 
       Instrumental Variable ...................................... 41

1.6 Conclusion ..................................................... 43

## Chapter 2
**An Evaluation of Different Measures 
of the Chinese Monetary Policy Stance** 44

2.1 Introduction .................................................... 44

2.2 Literature Review .............................................. 47

2.3 Different Measurements of Chinese Monetary Policy Stance .......... 50
   2.3.1 Quantitative and Price Measurement .......................... 50
Table of Contents

2.3.1.1 Monetary Aggregate ......................................................... 50
2.3.1.2 Interest Rate ................................................................. 51
2.3.2 A Combination of Various Monetary Policy Instruments ............ 54
2.3.3 Narrative Approach ............................................................ 57
2.4 Data .................................................................................... 58
2.5 The Responsiveness of Monetary Policies .................................... 62
2.5.1 Estimation Methodology for Discrete Index .......................... 63
2.5.2 Findings and Analysis ............................................................ 64
2.6 Estimated Response to Monetary Policy Shock .......................... 68
2.7 Conclusion ............................................................................ 70
Appendix ..................................................................................... 71

Chapter 3
China’s Monetary Policy and its Impact on Developing Asia: A GVAR Approach

3.1 Introduction ............................................................................ 74
3.2 China’s Monetary Policy .......................................................... 76
3.2.1 A New Measure of Monetary Policy Stance .......................... 76
3.2.2 Exchange Rate Regime ........................................................... 82
3.3 China and Asia Countries ........................................................ 83
3.4 Method .................................................................................... 84
3.4.1 Theoretical Framework ......................................................... 86
3.5 Data and VARX Setups ............................................................. 88
3.5.1 Data .................................................................................. 88
3.5.2 Tests ................................................................................. 90
3.5.2.1 Unit Root Tests .............................................................. 90
3.5.2.2 Test Weak Exogeneity ................................................... 90
3.6 Impulse Response Analysis ....................................................... 90
3.6.1 Positive Shock to China’s Real GDP .................................. 91
3.6.2 China’s Monetary Expansion Shock ................................... 91
3.6.3 RMB Devaluation Shock .................................................... 95
3.6.4 An Increasing Impact of China’s Monetary Policy ................. 98
3.7 Conclusion ............................................................................. 100

References .................................................................................. 101
Subject Index ................................................................................. 106
List of Tables

Table 1.1: Actual Funds for Investment in Fixed Assets Across the Whole Country (100 Million RMB) ............................... 18
Table 1.2: Statistics on Social Financing and its Composition (100 Million RMB) ................................................. 20
Table 1.3: Share of Different Financial Sources Among Total Assets (%) by Year .................................................. 29
Table 1.4: Share of Different Financial Sources Among Total Assets (%) by Firm Scale ............................................. 31
Table 1.5: Share of Different Financial Sources Among Total Assets (%) by Ownership ............................................. 32
Table 1.6: Interest Expense by Different Types of Firms ......................... 34
Table 1.7: Summary Statistics and Correlations ................................................. 37
Table 1.8: The Effect of Informal Financing on Firm Performance . . . . 40
Table 1.9: The Effect of Informal Financing on Firm Performance (IV) ..... 42
Table 2.1: Targeted and Actual Growth Rates of M1 and M2 (2000–2014) .. 52
Table 2.2: Main Monetary Policy Instruments ................................................. 54
Table 2.3: 5-Value Monetary Stance: Coding Criteria ......................... 58
Table 2.4: Descriptive Statistics ................................................................. 60
Table 2.5: Correlations Between the Variables ............................... 61
Table 2.6: The Taylor Rule and McCallum Rule ................................................. 65
Table 2.7: The Taylor Rule and McCallum Rule with Existing Policy Stance 66
Table 2.8: The Taylor Rule and McCallum Rule: Lagged Dependent Variables .................................................. 66
Table 2.9: The Responsiveness of Monetary Policy Stance (State Space Model) .................................................. 67
Table 2.10: The Responsiveness of Monetary Policy Stance (Narrative Approach) .................................................. 68
Table 3.1: Main Monetary Policy Phases ................................................................. 78
Table 3.2: Main Monetary Policy Instruments ................................................ 79
Table 3.3: Domestic and Foreign Variables Included in the Country-Specific Models .................................................. 89
List of Figures

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure 1.1</td>
<td>China’s Deposit and Lending Rate</td>
<td>25</td>
</tr>
<tr>
<td>Figure 2.1</td>
<td>Lending Rate and Deposit Rate</td>
<td>53</td>
</tr>
<tr>
<td>Figure 2.2</td>
<td>Chinese Monetary Policy Stance (State Space Method)</td>
<td>56</td>
</tr>
<tr>
<td>Figure 2.3</td>
<td>Chinese Monetary Policy Stance (Narrative Approach)</td>
<td>59</td>
</tr>
<tr>
<td>Figure 2.4</td>
<td>The Effect of Different Monetary Policy Measurements</td>
<td>70</td>
</tr>
<tr>
<td>Figure 3.1</td>
<td>Chinese Monetary Policy Stance (State Space Method)</td>
<td>81</td>
</tr>
<tr>
<td>Figure 3.2</td>
<td>China-, Japan-, and US’s Trade-Shares in ASEAN-5’s Total Trade (1980–2012)</td>
<td>83</td>
</tr>
<tr>
<td>Figure 3.3</td>
<td>Co-Movements Between ASEAN-5 and China GDP Growth (10-Year Moving Correlation of Annual Growth Rates)</td>
<td>85</td>
</tr>
<tr>
<td>Figure 3.4</td>
<td>The Effect of Positive Shock to China’s Real GDP</td>
<td>92</td>
</tr>
<tr>
<td>Figure 3.5</td>
<td>The Effect of Positive (One Standard Error) Shock to Chinese Monetary Stance on Real Output</td>
<td>93</td>
</tr>
<tr>
<td>Figure 3.6</td>
<td>The Effect of Positive (One Standard Error) Shock to Chinese Monetary Stance on Inflation</td>
<td>94</td>
</tr>
<tr>
<td>Figure 3.7</td>
<td>The Effect of Negative (One Standard Error) Shock to China’s Exchange Rate on Exchange Rate</td>
<td>96</td>
</tr>
<tr>
<td>Figure 3.8</td>
<td>The Effect of Negative (One Standard Error) Shock to China’s Exchange Rate on GDP</td>
<td>97</td>
</tr>
<tr>
<td>Figure 3.9</td>
<td>The Effect of Positive (One Standard Error) Shock to Chinese Monetary Stance on Real Output (1995 Trading Volume)</td>
<td>98</td>
</tr>
<tr>
<td>Figure 3.10</td>
<td>The Effect of Positive (One Standard Error) Shock to Chinese Monetary Stance on Inflation (1995 Trading Volume)</td>
<td>99</td>
</tr>
</tbody>
</table>
Introduction

This dissertation consists of three papers. Each chapter covers a topic in money and finance in China: the first chapter investigates the role of the informal financing in China. Both the second and third chapters focus on the measurement and effect of Chinese monetary policy.

In the first chapter, I use a firm-level dataset for Chinese manufacture industry over the 2001–2007 period to examine the effect of informal financing on firm performance, including output growth, labor productivity growth and TFP growth. According to the accounting information in our dataset, financial sources are divided into short-term liabilities, long-term liabilities, equity issuance and internal financing. More specifically, we invent a new term interest expense rate, which is defined as the interest expenses of firms divided by total liabilities, showing which financing sources the firm relies on. Therefore, a firm’s main financing sources are classified into three categories: standard bank loans, low risk informal financing and high risk informal financing. We find that the low-risk informal financing exerts a positive effect on a firm’s performance, including output growth, labor productivity growth and TFP growth. The effect of high-risk informal financing on firm performance is endogenous, whereby higher potential returns prompt the usage of high-risk informal financing. After using instrumental variables, we find no significant relationship between high-risk informal financing and output growth and it actually impedes labor productivity growth and TFP growth. My findings suggest that low-risk informal financing play an important and significant role in improving economic growth and should be encouraged and protected.

The second chapter investigates the performance of various monetary indicators in responding to macroeconomic conditions. Besides the commonly-used indicators such as the official lending rate, the reserve money growth and the broad money supply growth, I also take an index obtained by a narrative approach into comparison. Furthermore, this paper establishes a new index by using a state space method, reflecting changes in various monetary instruments implemented by the PBC (People’s Bank of China, the central bank of China). Our indicator has both theoretical and empirical advantages in measuring the monetary policy stance of the PBC, since all of these monetary instruments are directly controlled by the monetary authority and given varying emphasis in different phases. It also reacts
significantly to both the inflation and output gap, coinciding with the legal mandates of the PBC to maintain price stability and economic growth.

Due to the growing influence and spillover effect of China’s monetary policy, we analyze its changing impact on its neighboring countries in the third chapter. We first explore the institution and mechanism of China’s monetary policy and exchange regime, as well as establishing a new indicator of the Chinese monetary stance through a state space model. Based upon global VAR (GVAR) methods, we investigate the effect of China’s monetary policy shocks on its close trading partners in developing Asia. Our results show that an expansionary monetary policy in China will give rise to an economic growth for most countries and its transmit mechanism may be through trade owing to its insignificant effect on inflation in other countries. A devaluation shock of RMB will actually hurt the Chinese economy and the other currencies will also devaluate. In addition, we compare these findings with the same model using the 1995 trading volume, where-by the results show that the impact of China’s monetary policy has almost doubled in the past two decades.
Chapter 1

Financial Sources and Economic Growth: Firm-Level Evidence from Chinese Manufacturing Industry

1.1 Introduction

The relationship between financial development and economic growth has attracted significant attention in the past two decades. The predominant view is that the increased availability of financial instruments and institutions helps economic agents to hedge, trade and pool risk, which reduces transaction and information costs and ultimately increases investment and economic growth. Many scholars have proved this positive relationship through cross-country studies (Schumpeter, 1912; Levin and Zervos, 1998; Beck, Levine and Loayze, 2000).

However, China seems to be a special case. Indeed, exploring the empirical literature regarding China’s finance-growth nexus, the relationship becomes more complicated. Existing research on the links between finance and growth in China has led to contrasting results, whereby some authors have documented a positive relationship, others a negative one and sometimes no significant relationship at all (Aziz and Duenwald, 2002; Guariglia and Ponce, 2008; Boyreau-Debray, 2003; Liang, 2005; Hao, 2006; Chang, 2002; Shang, 2005). Scholars like Bekaert et al. (2006) have begun to claim that China’s extraordinary growth cannot be fully explained using standard growth regressions, whereby understanding its determinants remains an open question. Allen et al. (2005) also characterize China as a counter-example to the findings of the finance-growth literature, given that despite having a malfunctioning financial system it has been one of the fastest-growing economies in the world.

While research interest has mainly been focused on formal financial institutions, the literature has also recognized the existence and role played by informal financial systems, especially in developing economies. These informal financing channels include trade credit, private lending, underground money houses, etc. These informal financial institutions rely on relationships and reputation rather than standard ways to provide credit. Monitoring and enforcing repayments are considered more efficient than