DETERMINANTS OF COMMERCIAL BANKS’ CREDIT TO THE PRIVATE SECTOR
IN UGANDA (1997-2013)

BY

SSEBATTA JAMES
B. (ECON AND STAT), KYU

A DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE AWARD OF MASTER OF SCIENCE IN
QUANTITATIVE ECONOMICS DEGREE OF MAKERERE UNIVERSITY

AUGUST, 2015
DECLARATION

I, Ssebatta James declare that this dissertation is my original work and has never been presented to any university or any institution of learning for any academic award.

Signature..........................................................: Date..............................................

SSEBATTA JAMES

2012/HD06/564U
APPROVAL

SUPERVISORS

Signature..................................................................................: Date........................................

Dr. JAMES WOKADALA

Signature..................................................................................: Date........................................

Dr. MARGARET BANGA
DEDICATION

To my dear wife, parents, brothers, sisters, course mates and friends. Thank you so much for all you have done and sacrificed for me.
ACKNOWLEDGEMENTS

First and foremost, I thank the Almighty God for the good health, wisdom, focus and the patience that enabled me to complete this dissertation.

Secondly, I would like to extend my heartfelt gratitude to Dr. James Wokadala and Dr. Margaret Banga for their time, patience and professional guidance accorded to me throughout the course of compilation and completion of this dissertation. May God bless you.

I also extend my appreciation to the team of the Knowledge Management Centre at the Bank of Uganda for being helpful in my search for the relevant literature, my fellow staff at Bank of Uganda and staff of the School of Statistics and Planning for the advice provided to me when writing this report and standing by me during the course of my program.

Finally, special thanks go to my wife, parents, brothers and sisters for their encouragement and support throughout my study period; my friends and classmates for their developmental ideas towards my successful completion.
Abstract

This study investigated the determinants of commercial banks’ credit to the private sector, highlighting its continued subdued growth and the impact of the monetary policy framework reform in July 2011. Private sector credit was used as the dependent variable, while real economic growth, credit to government, foreign liabilities and domestic deposits were identified as the major explanatory variables. Using the Engle and Granger (1987) two-step estimator technique and data covering the third quarter of 1997 to the last quarter of 2013, a robust long run relationship was found to exist between private sector credit and the exogenous variables.

The empirical results show that before the reform of the monetary policy framework, unit percentage increases in domestic deposits, foreign liabilities and real GDP contributed 0.15%, 0.89% and 0.19% significant growths in private sector credit in the long run. Credit to government posted a 0.39% significant decline in private sector credit. In the short run, credit to government posted a significant decline, while past and present stock of foreign liabilities and the past growth in real GDP posted significant positive effects on private sector credit. The results also indicate that a one percent increase in domestic deposits led to a 0.46% growth in private sector credit in the long run after the reform. In the short run, domestic and foreign financing coupled with stronger past growths in the economy led to higher private sector credit growth. A strong economic condition coupled with improved financial health and liquidity of banks play an important role in private sector credit growth, while the crowding out effect of credit to government is detrimental to bank credit growth in Uganda.

In conclusion, policies aimed at mobilizing savings through financial inclusion, attracting foreign inflows and limiting the level of government borrowing are recommended so as to achieve a viable level of private sector credit in Uganda.
# Table of Contents

DECLARATION .......................................................................................................................... i
APPROVAL .............................................................................................................................. ii
DEDICATION ........................................................................................................................... iii
ACKNOWLEDGEMENTS ......................................................................................................... iv
Abstract .................................................................................................................................... v
Table of Contents .................................................................................................................... vi
List of Tables ........................................................................................................................... viii
Abbreviations ........................................................................................................................ ix

CHAPTER ONE ...................................................................................................................... 1

INTRODUCTION .................................................................................................................... 1
  1.1 Background to the Study ................................................................................................. 1
  1.1.1 Private Sector Credit patterns in Uganda ................................................................. 2
  1.2 Statement of the Problem .............................................................................................. 4
  1.3 Objectives of the Study ................................................................................................. 5
  1.4 Hypotheses of the Study ............................................................................................... 6
  1.5 Scope of the Study ......................................................................................................... 6
  1.6 Significance of the Study .............................................................................................. 7
  1.7 Structure of the Dissertation ......................................................................................... 7

CHAPTER TWO ...................................................................................................................... 8

LITERATURE REVIEW .......................................................................................................... 8
  2.1 Introduction ................................................................................................................... 8
  2.2 Theoretical Framework ................................................................................................. 8
    2.2.1 The Fisher’s theory of Demand for Bank Credit ..................................................... 8
    2.2.2 The Post-Keynesian theory of Demand for Bank Credit .................................... 9
    2.2.3 Theory of Intermediation-Supply of Bank credit .................................................. 9
  2.3 Empirical Review ......................................................................................................... 11
    2.3.1 Demand Side Determinants .................................................................................. 11
    2.3.2 Supply side Determinants .................................................................................... 13
  2.4 Conclusion .................................................................................................................... 16

CHAPTER THREE .................................................................................................................. 17
METHODOLOGY .................................................................................................................................................. 17
3.1. Introduction................................................................................................................................................... 17
3.2. Data Sources and Specification of Variables ................................................................................................. 17
3.3. Model Specification.......................................................................................................................................... 19
3.4. Integration and Co-integration...................................................................................................................... 20
   3.4.1 Unit Root Test.......................................................................................................................................... 20
   3.4.2 Co-integration Test and the Error Correction Mechanism (ECM) ............................................................ 21
   3.4.3 Diagnostic Checking for the Short Run models....................................................................................... 22
3.5. Limitations of the Study.................................................................................................................................. 23

CHAPTER FOUR .................................................................................................................................................. 24
DETERMINANTS OF COMMERCIAL BANKS’ CREDIT TO THE PRIVATE SECTOR..... 24
4.1. Introduction................................................................................................................................................... 24
4.2. Integration and Co-integration of Variables ................................................................................................ 24
4.3. Graphical representation of data ................................................................................................................ 25
4.4. Results of the Long Run Model .................................................................................................................. 27
4.5. Results of the Short Run Error Correction Model ...................................................................................... 28
4.6. Diagnostic Checking for the Short Run Model before Reform of the Monetary Policy Framework ............... 29
4.7. Diagnostic Checking for the Short Run Model after Reform of the Monetary Policy Framework ................. 30
4.8. Model before Reform of the Monetary Policy Framework ........................................................................ 31
4.9. Model after Reform of the Monetary Policy Framework ........................................................................... 32
4.10. Discussion of the Study Findings............................................................................................................... 33

CHAPTER FIVE ................................................................................................................................................. 36
SUMMARY OF FINDINGS, CONCLUSIONS AND RECOMMENDATIONS ............... 36
5.1 Introduction................................................................................................................................................... 36
5.2 Summary of findings....................................................................................................................................... 36
5.3 Conclusion .................................................................................................................................................... 38
5.4 Recommendations.......................................................................................................................................... 39
5.5 Suggestions for further Research................................................................................................................ 39

References ........................................................................................................................................................... 40
Appendices ........................................................................................................................................................... 43
List of Tables

Table 4.1: Results of the Augmented Dickey Fuller test for the variables ........................................... 25
Table 4.2: OLS Estimation of the Long Run Private Sector Credit Models................................. 27
Table 4.3: Chow break point test ........................................................................................................ 28
Table 4.4: OLS Estimation of the Short Run Error correction Private Sector Credit Models ...... 29
Table 4.5: Diagnostic tests for the Short Run Model before Reform of the Monetary Policy Framework ............................................................................................................................................. 30
Table 4.6: Diagnostic tests for the Short Run Model after Reform of the Monetary Policy Framework ........................................................................................................................................................................... 31
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADF</td>
<td>Augmented Dickey Fuller</td>
</tr>
<tr>
<td>AIC</td>
<td>Akaike Information Criterion</td>
</tr>
<tr>
<td>BOU</td>
<td>Bank of Uganda</td>
</tr>
<tr>
<td>ECM</td>
<td>Error Correction Model</td>
</tr>
<tr>
<td>FDI</td>
<td>Foreign Direct Investment</td>
</tr>
<tr>
<td>GDP</td>
<td>Gross Domestic product</td>
</tr>
<tr>
<td>IMF</td>
<td>International Monetary Fund</td>
</tr>
<tr>
<td>MoFPED</td>
<td>Ministry of Finance, Planning and Economic Development</td>
</tr>
<tr>
<td>OLS</td>
<td>Ordinary Least Squares</td>
</tr>
<tr>
<td>PSI</td>
<td>Policy Support Instrument</td>
</tr>
<tr>
<td>RESET</td>
<td>Regression Equation Specification Error Test</td>
</tr>
</tbody>
</table>