

Quantitative Easing and the Loan to Collateral  
Value Ratio

Tatiana Damjanovic, Šarūnas Girdėnas



[www.elsevier.com/locate/jedc](http://www.elsevier.com/locate/jedc)

PII: S0165-1889(14)00121-3  
DOI: <http://dx.doi.org/10.1016/j.jedc.2014.05.013>  
Reference: DYNCON3006

To appear in: *Journal of Economic Dynamics & Control*

Received date: 18 November 2013  
Revised date: 20 May 2014  
Accepted date: 21 May 2014

Cite this article as: Tatiana Damjanovic, Šarūnas Girdėnas, Quantitative Easing and the Loan to Collateral Value Ratio, *Journal of Economic Dynamics & Control*, <http://dx.doi.org/10.1016/j.jedc.2014.05.013>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# Quantitative Easing and the Loan to Collateral Value Ratio\*

Tatiana Damjanovic

Šarūnas Girdėnas<sup>†</sup>

University of Exeter

University of Exeter

17 May 2014

## Abstract

We study optimal policy in a New Keynesian model at zero bound interest rate where households use cash alongside house equity borrowing to conduct transactions. The amount of borrowing is limited by a collateral constraint. When either the loan to value ratio declines or house prices fall, we observe a decrease in the money multiplier. We argue that the central bank should respond to the fall in the money multiplier and therefore to the reduction in house prices or the loan to collateral value ratio. We also find that optimal monetary policy generates a large and persistent fall in the money multiplier in response to the drop in the loan to collateral value ratio.

**Keywords:** optimal monetary policy, zero lower bound, qualitative easing, money multiplier, loan to value ratio, collateral constraint, house prices

**JEL classification:** E44, E51, E52, E58

---

\*Girdėnas Sarunas is grateful for the ESRC scholarship. We would like to thank participants at the XVIII Workshop in Dynamic Macroeconomics in Vigo, the Money and Macro 2013 Conference, CEF 2014 Conference in Oslo, 7th CGBCR Conference in Manchester, Royal Economic Society 2014 meeting and the Conference on Banking, Finance, Money and Institutions: The Post Crisis Era for useful comments. We are grateful to Charles Nolan, Yiannis Vailakis, Joao Madeira, Dooruj Rambaccussing, Lawrence Choo, Jordan Large and Giuseppe Bova for discussions. Special thanks goes to the editor and the referee who helped to improve that paper.

<sup>†</sup>Address: Economics Department, Business School, University of Exeter, Streatham Court, Rennes Drive. EX4 4PU, UK. Email: sg325@exeter.ac.uk

Download English Version:

<https://daneshyari.com/en/article/5098506>

Download Persian Version:

<https://daneshyari.com/article/5098506>

[Daneshyari.com](https://daneshyari.com)