

Introduction

Alternative Models of Interest Rate Pass-Through in Normal and Negative Territory

Mauricio Ulate

The Rise of Fintech Lending to Small Businesses: Businesses'
Perspectives on Borrowing
Brett Barkley and Mark Schweitzer

Monetary Policy with Negative Interest Rates: De-Linking Cash from Digital Money Katrin Assenmacher and Signe Krogstrup

Modeling the Consumption Response to the CARES Act Christopher D. Carroll, Edmund Crawley, Jiri Slacalek, and Matthew N. White

The First Line of Defense: The Discount Window during the Early Stages of the Financial Crisis

Elizabeth Klee

International Inflation Spillovers: The Role of Different Shocks Gregor Bäurle, Matthias Gubler, and Diego R. Känzig

Always Look on the Bright Side? Central Counterparties and Interbank Markets during the Financial Crisis

Massimiliano Affinito and Matteo Piazza

Pension Funds' Herding

Dirk W.G.A. Broeders, Damiaan H.J. Chen,

Peter A. Minderhoud, and C.J. Willem Schudel



| Volume 17, Number 1 | March 2021 |
|---|------------|
| Introduction | 1 |
| Alternative Models of Interest Rate Pass-Through in Normal and Negative Territory $Mauricio\ Ulate$ | 3 |
| The Rise of Fintech Lending to Small Businesses: Businesses' Perspectives on Borrowing Brett Barkley and Mark Schweitzer | 35 |
| **** | |
| Monetary Policy with Negative Interest Rates: De-Linking Cash from Digital Money $Katrin\ Assenmacher\ and\ Signe\ Krogstrup$ | 67 |
| Modeling the Consumption Response to the CARES Act Christopher D. Carroll, Edmund Crawley, Jiri Slacalek, and Matthew N. White | 107 |
| The First Line of Defense: The Discount Window during the Early Stages of the Financial Crisis $\it Elizabeth~\it Klee$ | 143 |
| International Inflation Spillovers: The Role of Different Shocks Gregor Bäurle, Matthias Gubler, and Diego R. Känzig | 191 |
| Always Look on the Bright Side? Central Counterparties and Interbank Markets during the Financial Crisis Massimiliano Affinito and Matteo Piazza | 231 |
| Pension Funds' Herding Dirk W.G.A. Broeders, Damiaan H.J. Chen, Peter A. Minderhoud, and C.J. Willem Schudel | 285 |

The contents of this journal, together with additional materials provided by article authors, are available without charge at www.ijcb.org.

Copyright © 2021 by the Association of the International Journal of Central Banking. All rights reserved. Brief excerpts may be reproduced or translated provided the source is cited. Consult www.ijcb.org for further information.

The International Journal of Central Banking is published quarterly (ISSN: 1815-4654). Online access to the publication is available free of charge at www.ijcb.org. Changes to hard copy subscriptions and orders should be placed by e-mail at editor@ijcb.org.

Renewals, claims, address changes, and requests for permission to reprint material from this journal should be addressed to:

International Journal of Central Banking HS08.20 European Central Bank Sonnemannstr. 22 D-60640 Frankfurt am Main Germany

Phone: +4969134495894 E-mail: editor@ijcb.org

The views expressed in this journal do not necessarily represent the views of the Association of the International Journal of Central Banking or any of its members.

ISSN: 1815-4654

International Journal of Central Banking

Board of Directors

Chairmar

Richard Clarida, Federal Reserve Board

Board Members

Elias Albagli, Central Bank of Chile Ahmed Alkholifey, Saudi Arabian Monetary Authority David E. Altig, Federal Reserve Bank of Atlanta Jan Marc Berk, The Nederlandsche Bank Claudio Borio, Bank for International Settlements Jan Bruha, Czech National Bank Paul Castillo, Central Reserve Bank of Peru Lillian Cheung, Hong Kong Monetary Authority Laurent Clerc, Bank of France Andrew Colquhoun, Monetary Authority of Singapore Francisco G. Dakila Jr., Bangko Sentral ng Pilipinas Troy Davig, Federal Reserve Bank of Kansas City Michael Dotsey, Federal Reserve Bank of Philadelphia Luci Ellis, Reserve Bank of Australia Rosthom Fadli, Bank of Algeria Eugenio Gaiotti, Banca d'Italia Yong Ha, Reserve Bank of New Zealand Philipp Hartmann, European Central Bank Jonathan Heathcote, Federal Reserve Bank of Minneapolis

Minneapolis
Beverly Hirtle, Federal Reserve Bank of New York
Elena Iorga, National Bank of Romania
Esa Jokivuolle, Bank of Finland
Signe Krogstrup, Danmarks Nationalbank
Michael Kumhof, Bank of England
Thomas Laubach, Federal Reserve Board
Ana Christina Leal, Bank of Portugal
Carlos Lenz, Swiss National Bank
Ye Liu, People's Bank of China
Ken Matsushita, Bank of Japan

Andre Minella, Central Bank of Brazil
Emanuel Mönch, Deutsche Bundesbank
Gerard O'Reilly, Central Bank of Ireland
Eva Ortega, Bank of Spain
Michael D. Patra, Reserve Bank of India
Anna Paulson, Federal Reserve Bank of Chicago
Thórarinn G. Pétursson, Central Bank of
Iceland
Sigal Ribon, Bank of Israel
Kasper Roszbach, Norges Bank

Glenn Rudebusch, Federal Reserve Bank of San Francisco
Krislert Samphantharak, Bank of Thailand
Çağrı Sarıkaya, Central Bank of Turkey
Lawrence Schembri, Bank of Canada
Woon Shin, Bank of Korea
Ulf Söderström, Sveriges Riksbank
Ellis Tallman, Federal Reserve Bank of Cleveland
George Tavlas, Bank of Greece
Geoff Tootell, Federal Reserve Bank of Boston
Dobieslaw Tymoczko, National Bank of Poland
Hernando Vargas Herrera, Banco de la República
Christopher Waller, Federal Reserve Bank of
St. Louis
John Weinberg, Federal Reserve Bank of

John Weinberg, Federal Reserve Bank of Richmond Rafael Wouters, National Bank of Belgium Mine Yücel, Federal Reserve Bank of Dallas Ksenia Yudaeva, Central Bank of Russian Federation

Editorial Board Managing Editor

Luc Laeven European Central Bank

Co-editors

Klaus Adam University of Mannheim Tobias Adrian International Monetary Fund Boragan Aruoba University of Maryland

Boragan Aruoba University of Maryland Huberto Ennis Federal Reserve Bank of Richmond

Columbia University Michael D. Bordo Rutgers University Mark Carey Federal Reserve Board Pierre Collin-Dufresne École Polytechnique Fédérale de Lausanne Guy Debelle Reserve Bank of Australia Douglas W. Diamond University of Chicago Graduate School of Business Francis Diebold University of Pennsylvania Michael Dotsey Federal Reserve Bank of Philadelphia

Franklin Allen Imperial College London Charles Goodhart London School of Economics Linda S. Goldberg Federal Reserve Bank of New York Òscar Jordà

Federal Reserve Bank of San Francisco Sharon Kozicki

Bank of Canada

Keith Kuester University of Bonn Elena Loutskina UVA Darden School of Business

Steven Ongena University of Zurich

Associate Editors

Darrell Duffie Stanford University Jordi Galí Centre de Recerca en Economia Internacional (CREI) Marvin Goodfriend Carnegie Mellon University Michael B. Gordy Federal Reserve Board Luigi Guiso Einaudi Institute Andrew G. Haldane Bank of England Takatoshi Ito Columbia University David Lando Copenhagen Business School Philip Lane European Central Bank

Advisory Board

Hyun Song Shin Bank for International Settlements John Taylor Stanford University

Francesco Lippi LUISS University Carmen M. Reinhart Harvard Kennedy School Hélène Rey London Business School Jean-Charles Rochet University of Zurich Andrew K. Rose University of California, Berkeley Lars E.O. Svensson Stockholm School of Economics Jürgen von Hagen University of Bonn Ernst-Ludwig von Thadden University of Mannheim Tsutomu Watanabe University of Tokyo

Kazuo Ueda University of Tokyo Carl E. Walsh University of California Michael Woodford Columbia University

Introduction

This issue of the International Journal of Central Banking includes two of the papers presented at the conference entitled "Structural Changes in the Financial System: New Theory and Evidence" hosted by the European Central Bank on August 20–21, 2020. The conference was co-organized with the European Central Bank and Danmarks Nationalbank. The two papers, chosen using the same rigorous standards applied to all International Journal of Central Banking content, are "Alternative Models of Interest Rate Pass-Through in Normal and Negative Territory" by Mauricio Ulate; and "The Rise of Fintech Lending to Small Businesses: Businesses' Perspectives on Borrowing" by Brett Barkley and Mark Schweitzer. The program committee for the conference was Tobias Adrian, Elena Carletti, Huberto Ennis, Linda Goldberg, Luc Laeven, and Steven Ongena.