

Daniel R. Carvalho

Kelley School of Business

Indiana University

Bloomington IN 47405

Phone: 812 855 7635

E-mail: drcarval@indiana.edu

Homepage: <https://sites.google.com/site/dcarvalhofinance/>

Academic Positions

2017 - **Kelley School of Business, Indiana University, Bloomington, IN**

Assistant Professor of Finance

2009 -2017 **Marshall School of Business, University of Southern California, Los Angeles, CA**

Assistant Professor of Finance and Business Economics

Education

2004 - 2009 **Harvard University, Cambridge, MA**

Ph.D., Economics

Committee: Jeremy Stein, Andrei Shleifer, Michael Kremer, Gary Chamberlain

M.A., Economics

2002 – 2004 **Catholic University, Rio de Janeiro (PUC-Rio)**

M.S. in Economics

1997 – 2001 **Catholic University, Rio de Janeiro (PUC-Rio)**

B.S. in Mathematics

Publications

The Real Effects of Government-Owned Banks: Evidence from an Emerging Market, *Journal of Finance* 69(2), 577-609, 2014.

Featured in the World Bank's 2013 Global Financial Development Report ("Rethinking the Role of the State in Finance") and World Bank's policy research papers on bank ownership. Cited in policy papers on the banking sector by regional departments of the International Monetary Fund (IMF)

Presented at Brown University, Dartmouth College Tuck, Harvard University, Stockholm School of Economics Finance Dept., UCLA Anderson, University of Illinois at Urbana-Champaign Gies, USC Marshall, Washington University at St. Louis Olin, Yale SOM, and the Western Finance Association Meetings

Financing Constraints and the Amplification of Aggregate Downturns, *Review of Financial Studies* 28(9), 2463-2501, 2015. (Lead article, Editor's choice article)

Featured in the RFS Editorial Blog

Presented at the NBER Summer Institute Meetings (Corporate Finance Session), Harvard Economics-HBS Finance Seminar, USC Marshall, and Yale SOM

Lending Relationships and the Effect of Bank Distress: Evidence from the 2007-2008 Financial Crisis (with Miguel Ferreira and Pedro Matos), *Journal of Financial and Quantitative Analysis* 50(6), 1165-1197, 2015. (Lead article)

Winner of the Best Paper Award – California Corporate Finance Conference

Presented at an invited session on "Credit Supply During the Recent Financial Crisis" organized by Amir Sufi (University of Chicago) at the North-American Meetings of the Econometric Society

Presented at the Western Finance Association Meetings, Financial Intermediation Research Society Annual Conference, Bank of Portugal, California Corporate Finance Conference, ESSEC-Paris, Tilburg University, Universidade Nova de Lisboa, University of Rotterdam, and USC Marshall

How Do Financing Constraints Affect Firms' Equity Volatility?, *Journal of Finance* 73 (3), 1139-1181, 2018.

Presented at City University of Hong Kong, Hong Kong Polytechnic University, University of Hong Kong, and USC Marshall

The Impact of Bank Credit on Labor Reallocation and Aggregate Industry Productivity (with John Bai and Gordon Phillips), *Journal of Finance* 73(6), 2787-2836, 2018.

Presented at the NBER Summer Institute Meetings (Corporate Finance Session and Aggregate Productivity Session), AFA Meetings, CSEF-EIEF-SITE Conference on Finance and Labor, FIRS annual conference, FMA meetings, Indiana University (Kelley), Northeastern University (D'Amore-McKim), Ohio State (Fisher), UCLA (Anderson), University of Florida, University of Maryland (Smith), USC Marshall, University of Toronto, University of Wisconsin-Madison, and Washington University at St. Louis (Olin). Featured in the NBER research webpage

Working Papers

Understanding the Credit Multiplier: The Working Capital Channel (with Heitor Almeida and Taehyun Kim), Working Paper.

Revise and Resubmit, *Journal of Finance*

Presentations: Boston College, Cass Business School, Edinburgh Business School, George Washington University, Indiana University (Kelley), Washington University at St Louis (Olin), UCLA (Anderson), University of Illinois at Chicago, University of Colorado at Boulder, University of Kentucky, USC (Marshall), CEPR Spring Symposium in Financial Economics, FIRS Annual Conference, Minnesota Corporate Finance Conference, RCFS 2018 Bahamas Conference, SFS Cavalcade Conference, NTU Finance conference, Annual Young Scholars Finance Consortium, Doug Diamond's 65th birthday conference at the Chicago Booth School of Business, and Chicago Federal Reserve.

Abstract: We provide novel evidence that frictions in the financing of working capital can limit firms' production capacity, leading to the amplification and propagation of liquidity problems over time. We propose a new approach to identify this firm credit multiplier that compares how a same firm responds to permanent shocks differently when these shocks are initiated in the period in which they are predicted to be most profitable (their "main quarter"). Our analysis implements this test with oil price shocks and provides extensive evidence supporting our identification strategy. Our results suggest that the financing of working capital can be an important channel for understanding the real effects and determinants of short-term funding problems faced by firms.

Uncertainty and Exit Decisions: Evidence from Plant-Level Data, Working Paper.

Presentations: Boston College, Indiana University (Kelley), UCSD (Rady), University of Illinois at Urbana-Champaign, USC Marshall, UC Chile Finance Conference, SFS Cavalcade Conference, and Western Finance Association Meetings.

Abstract: Theory suggests that uncertainty can play an important role in determining firms' decisions to shut down operations. In this paper, I provide evidence that input-price uncertainty leads to significant reductions in plant exits in the context of Brazilian manufacturing. I analyze this effect by combining differences in plants' exposure to import price uncertainty within a same industry and region with shocks to exchange rate uncertainty, and monthly data on the timing of plant closures. The results consider both a natural experiment that leads to firm-specific changes in the exchange rate uncertainty faced by importers and broader aggregate shocks to exchange rate uncertainty. The evidence supports the view that these results capture real-options effects where firms delay market exit decisions that are costly to reverse.

Overreaction in Credit Spreads: The Role of Lenders' Personal Economic Experiences (with Janet Gao and Pengfei Ma), Working Paper.

Presentations: Indiana University (Kelley), City University of Hong Kong

Abstract: We provide micro-level evidence that credit spreads overreact to lenders' recent personal economic experiences. Using unique data on the location of the real estate properties of loan officers originating large corporate loans, we show that credit spreads overweight recent economic conditions in officers' local neighborhoods, that we capture using local housing price growth. Higher local growth in officers' areas is associated with significantly lower credit spreads. The analysis suggests that these

effects cannot be explained by borrower and bank fundamentals, or changes in officer wealth, and that they capture officers' responses to their local economic experiences. Overall, the evidence is most consistent with the view that lenders' beliefs drive this overreaction in credit spreads to their recent personal experiences.

Invited Presentations*

- 2018-2019 SFS Cavalcade, SFS Cavalcade (d), FIRS Annual Conference, Boston College (Carroll), NTU Finance Conference, City University of Hong Kong, Doug Diamond 65th Birthday Conference at Chicago Booth, Chicago Federal Reserve
- 2017-2018 University of Toronto (Economics), UCLA(Anderson), SFS Cavalcade (d), Edinburgh Business School, Cass Business School, George Washington University, Washington University at St Louis(Olin), University of Colorado at Boulder, University of Illinois at Chicago, Minnesota Corporate Finance Conference, RCFS Conference, University of Kentucky, Texas A&M Young Scholar Consortium.
- 2016-2017 Boston College (Carroll), Indiana University (Kelley), Ohio State University (Fisher), UC San Diego (Rady), University of Florida (Warrington), University of Maryland (Robert H. Smith), University of Illinois at Urbana-Champaign (Finance), Washington University at St. Louis (Olin), Western Finance Association Meetings
- 2015-2016 AFA Meetings, AEA Meetings (d), Yale Program on Financial Stability (d), CSEF-EIEF-SITE Conference on Finance and Labor, University of Florida (Warrington), SFS Cavalcade (d), Annual FIRS Conference, Brazilian Finance Association Meetings (invited plenary lecture), UC Chile Finance Conference
- 2014-2015 NBER Corporate Finance Summer Institute, NBER CRIW Summer Institute, AFA Meetings (d), SFS Cavalcade, University of Wisconsin-Madison, University of New South Wales, FOM Conference (d), Northeastern University, University of Hong Kong, City University of Hong Kong, Hong Kong Polytechnic University, EPGE, PUC-Rio, EESP, Insper
- 2013-2014 Catholic University – Rio (PUC-Rio)
- 2012-2013 Bank of Canada (d), Texas Finance Festival (UT Austin)
- 2011-2012 NBER Corporate Finance Summer Institute, Harvard University (Economics-HBS), Yale University (SOM), North-American Meetings of the Econometric Society (invited session on financial crisis)

* This includes presentations by co-authors and discussions. Discussions are denoted using (d).

- 2010 -2011 Tilburg University, University of Rotterdam, Universidade Nova de Lisboa, Bank of Portugal, ESSEC-Paris, Western Finance Association Meetings, Annual FIRS Conference, Annual FIRS Conference (d)
- 2009-2010 University of Southern California (Economics), Financial Management Association (Invited Panelist - The Frontiers of Research in Corporate Finance), USC-UCLA Finance Day, Western Finance Association Meetings
- 2008-2009 Brown University (Economics), Dartmouth College (Tuck), Harvard University (Economics), Stockholm School of Economics (Finance), University of Illinois at Urbana-Champaign (Finance), University of Southern California (Marshall), Washington University at St. Louis (Olin), Yale University (SOM)

Teaching

- 2020- Planned - Instructor for Ph.D. Course Covering Research Topics in Banking and Credit Markets (F644 Special Topics: Banking), Kelley School of Business. Designed the course structure and content.
- 2018- Instructor for Undergraduate Finance Elective Course (F446 Banking and Financial Intermediation), Kelley School of Business. Designed the course structure and content.
- 2009-2017 Instructor for M.B.A. and Undergraduate Finance Elective Courses (Financial Analysis and Valuation), USC Marshall School of Business.
- 2006-2008 Ph.D. Courses in Econometrics, Economics Department, Harvard University. Teaching Assistant for Gary Chamberlain and Dale Jorgenson. Recipient of GIC Award for Excellence in Teaching Economics.

Referee Activity

Journal of Finance, Review of Financial Studies, Journal of Financial Economics, American Economic Review, Quarterly Journal of Economics, Review of Economic Studies, Review of Economics and Statistics, American Economic Journal: Economic Policy, Journal of Financial and Quantitative Analysis, Management Science, Review of Finance, Journal of Financial Intermediation, Journal of Corporate Finance, Journal of Urban Economics, Journal of Public Economics

Conference Program Committee

Society of Financial Studies (SFS) Cavalcade Conference (2017-)

Financial Intermediation Research Society (FIRS) Conference (2018-)

European Finance Association (EFA) Annual Meetings (2018-)

Internal Service

Kelley School of Business, Finance Department: Tenure-Track Recruiting Committee (2017-2018, 2018-2019), Finance Seminar Coordinator (2019-2020)

USC Marshall School of Business, Finance and Business Economics Department: Tenure-Track Recruiting Committee (multiple years), Ph.D. Admissions Committee (multiple years), Seminar Coordinator (multiple years).

Selected Policy Mentions

The World Bank's Global Financial Development Report, 2013, "Rethinking the Role of the State in Finance"

International Monetary Fund, Middle East and Central Asia Department, 2018, "Building Resilient Banking Sectors in the Caucasus and Central Asia"

The World Bank, Finance and Private Sector Development Team, Policy Working Paper, 2012, "Bank Ownership and Credit over the Business Cycle"

Center for Economic Policy Research (CEPR) Policy Portal – VOX, 2016, "The Cost of Screening and the Allocation of Credit by Public Development Banks"

Inter-American Development Bank, 2014, "Rethinking Productive Development: Sound Policies and Institutions for Economic Transformation"

The Organization for Economic Co-operation and Development (OECD), 2014, Workshop on State-Owned Enterprises in the Development Process

Initiative for Policy Dialogue, Columbia University, 2018, "The Future of National Development Banks"

The Hutchins Center on Monetary and Fiscal Policy, Brookings Institute, The Hutchins Roundup, December 7, 2017

Fellowships and Honors

2018 Best Paper Award, Annual Conference on Asia-Pacific Financial Markets

2015 Editor's Choice Paper Award. *Review of Financial Studies*

2010 Best Paper Award, California Corporate Finance Conference

2008-2009 Sandra Ohrn Family Graduate Dissertation Fund , Harvard University

2008-2009 Harvard University Dissertation Completion Fellowship

2008 GIC Award for Excellence in Teaching Economics, Harvard University

2007-2008 Warburg Funds Research Grant, Economics Department, Harvard University

2004- 2006 Harvard University Graduate School of Arts and Sciences Fellowship

2002-2004 Academic Excellence Fellowship for Graduate Studies – Catholic University, Rio de Janeiro, Brazil

1997-2001 Academic Excellence Fellowship for Undergraduate Studies – Catholic University, Rio de Janeiro, Brazil