

Matteo Crosignani

R5456, Ross School of Business
University of Michigan
701 Tappan Street
Ann Arbor, MI 48109 USA

matteocrosignani.com
mcrosign@umich.edu
t: (734)615-5002
[google scholar](#)
[ssrn](#)

EMPLOYMENT **University of Michigan, Ross School of Business**, Ann Arbor, MI
Assistant Professor of Finance, Jul 2018 -

Board of Governors of the Federal Reserve System, Washington, DC
Economist, Division of Monetary Affairs, Sep 2016 - June 2018

EDUCATION **New York University Stern School of Business**, New York, NY
Ph.D., Finance, Sep 2011 - May 2016
Dissertation: *“Essays in Financial Institutions and Central Banking”*
Committee: Viral Acharya (chair), Philipp Schnabl (chair), Alexi Savov, Andres Liberman

London School of Economics and Political Science, London
M.Sc., Finance and Economics, Research Track, Sep 2010 - Jun 2011

Columbia University, New York, NY
Exchange Student, Economics, Jan 2010 - May 2010

Università Bocconi, Milan
B.Sc., Economics, Sep 2007 - Jul 2010

RESEARCH INTERESTS Transmission of Monetary Policy, Macroprudential Regulation
Financial Intermediation, Bank Portfolio Choice
Sovereign Crises, Government Bond Markets, Sovereign Debt Capacity

PRIZES AND AWARDS Young Economist Award, ECB Forum on Central Banking, 2016
Edwin Elton Prize for the Best Finance Job Market Paper, 2015
3rd SUERF/UniCredit & Universities Foundation Research Prize, 2015
Klaus Liebscher Award, 2015
NYU Stern Teaching Commendation, 2014
D. Graifman Memorial Award for the Best 2nd Year Summer Paper in Finance at Stern, 2013

FELLOWSHIPS AND GRANTS Jules Bogen Fellowship, 2015-2016
Macro Financial Modeling Group (Becker Friedman Institute) Dissertation Fellowship, 2014
Unicredit & Universities Crivelli Europe, Runner-up, 2012
NYU Stern School-wide Doctoral Fellowship, 2011-2015
Ph.D. Director’s Fellowship, 2011-2015

1) The Design and Transmission of Central Bank Liquidity Provisions (with Luisa Carpinelli), August 2018

- *Revision requested at the Journal of Financial Economics*
- *AFA 2017, RFS BSRMM 2017*
- *Young Economist Award, ECB Forum on Central Banking, 2016*
- *Edwin Elton Prize for the Best NYU Stern Finance Job Market Paper*
- *Media Coverage: Wall Street Journal*

Abstract: We show how the design of central bank provisions of collateralized liquidity to banks following a wholesale funding dry-up affects their transmission. Combining Italian banks' security-level holdings with the national credit register, we analyze the role of maturity and collateral during the ECB's three-year Long-Term Refinancing Operations. We find that (i) long-term liquidity helped banks hit by the dry-up support their credit supply to firms; (ii) a government guarantee, by allowing these banks to expand their eligible collateral, was necessary for the transmission to firms; and (iii) banks used most liquidity to buy government bonds.

Previously titled "The Effect of Central Bank Liquidity Injections on Bank Credit Supply"

2) Why Are Banks Not Recapitalized During Crises?, July 2017

- *Revision requested at the Journal of Financial Economics (2nd round)*
- *EFA 2016, OxFIT 2016, Barcelona GSE Summer Forum 2015*
- *Shortlisted, Ieke van den Burg Prize for Research on Systemic Risk, 2016*
- *2015 Klaus Liebscher Award*

Abstract: I develop a model where the sovereign debt capacity depends on the capitalization of domestic banks. Low-capital banks optimally tilt their government bond portfolio toward domestic securities, linking their destiny to that of the sovereign. If the sovereign risk is sufficiently high, low-capital banks reduce private lending to further increase their holdings of domestic government bonds, lowering sovereign yields and supporting the home sovereign debt capacity. The model rationalizes, in the context of the eurozone periphery, the increase in domestic government bond holdings, the reduction of bank credit supply, and the prolonged fragility of the financial sector.

3) The (Unintended?) Consequence of the Largest Liquidity Injection Ever (with Miguel Faria-e-Castro and Luis Fonseca), May 2018

- *Revision requested at the Journal of Monetary Economics*
- *AFA 2016, SED 2016, CFIC 2017*
- *3rd SUERF/UniCredit & Universities Foundation Research Prize, 2015*
- *Media Coverage: Wall Street Journal, Frankfurter Allgemeine Zeitung*

Abstract: We show that the design of lender-of-last-resort interventions can exacerbate the bank-sovereign nexus. During sovereign crises, central bank provision of long-term liquidity incentivizes banks to purchase high-yield eligible collateral securities matching the maturity of the central bank loans. Using unique security-level data, we find that the European Central Bank's three-year Long-Term Refinancing Operation caused Portuguese banks to purchase short-term domestic government bonds, equivalent to 10.6% of amounts outstanding, and pledge them to obtain central bank liquidity. The steepening of eurozone peripheral sovereign yield curves right after the policy announcement is consistent with the equilibrium effects of this "collateral trade."

4) The Anatomy of the Transmission of Macroprudential Policies (w. Viral Acharya, Katharina Bergant, Tim Eisert, Fergal McCann), May 2018

- *RFS BSRMM 2018, FIRS 2018, LSE PWC 2018, 2018 NBER SI (CF-RISK)*

Abstract: We analyze the transmission of macroprudential policies aimed at limiting household

leverage and preserving financial stability. Combining supervisory loan-level and house price data, we examine the effect of loan-to-income and loan-to-value limits on residential mortgages in Ireland on mortgage credit, house prices, and financial stability. We find that banks re-allocate their mortgage credit toward high-income borrowers and areas with low house price appreciation. This reallocation slows down house prices in “hot” areas, but allows banks to maintain a stable risk exposure as they increase mortgage credit to historically risky borrowers, corporate credit to risky firms, and holdings of high-yield securities.

OTHER PAPERS **5) The Portuguese Banking System During the Sovereign Debt Crisis**, with Miguel Faria-e-Castro and Luis Fonseca, *Banco de Portugal Economic Studies*, 1(2), pp. 43-80, July 2015

CITATIONS Google Scholar: 150 citations, h-index 4, i10-index 3

- *Why Are Banks Not Recapitalized During Crises?* (53)
- *The Effect of Central Bank Liquidity Injections on Bank Credit Supply* (45)
- *The (Unintended?) Consequence of the Largest Liquidity Injection Ever* (41)
- *The Portuguese Banking System During the Sovereign Debt Crisis* (7)
- *The Anatomy of the Transmission of Macroprudential Policies* (4)

PRESENTATIONS **2019**

Conferences:

^p presentation

* by co-author

† discussion

Seminars: Danmarks Nationalbank.

2018

Conferences: Federal Reserve System “Day-Ahead” Conference (Philadelphia)*, Midwest Finance Association Meetings (invited session)^p, Midwest Finance Association Meetings[†], RFS Conference on “New Frontiers in Banking Research”^p, SFS Cavalcade (Yale)[†], Fixed Income and Financial Institutions Conference (University of South Carolina)[†], Annual FIRS Finance Conference (Barcelona)*[†], EuroFIT Workshop “Financial Intermediation and Risk”[†], Western Finance Association Meeting[†], Second Maryland Junior Finance Conference[†], LSE Paul Woolley Conference*, NBER Summer Institute (CF)^p, European Finance Association Meetings^{††}.

Seminars: Johns Hopkins Carey, Michigan Ross.

2017

Conferences: American Finance Association Meetings^p, MFM Winter Meeting^p, Chicago Financial Institutions Conference*, RFS Banks and Systemic Risk Measurement and Mitigation Conference (Rome)^p, Irish Economic Association Annual Conference*, NA Summer Meetings of the Econometric Society^p, Banco de Portugal Conference on Financial Intermediation*, Yale Program on Financial Stability Conference^p, Norges Bank Workshop on Housing and Household Finance*, Oxford-NY Fed Monetary Economics Conference*, Basel Committee-CEPR “The Impact of Banking Regulation on Financial Market” Conference*, Western Finance Association Meeting[†], Baffi Carefin Conference (Bocconi)^p, CREDIT “Interest Rates, Growth, and Regulation” Conference*, “Bank Performance, Financial Stability and the Real Economy” (CSEF)*, “Financial Regulation: Fit for the Future?” (Atlanta Fed)^p, Regulating Financial Markets (Frankfurt)[†], Meeting of German Economists Abroad*.

Seminars: New York Fed, Federal Reserve Board, Michigan Ross.

2016

Conferences: American Finance Association Meetings*, International Conference on Sovereign Bond Markets^p, MoFiR Workshop on Banking*, Marco Fanno Alumni Workshop^p, European Finance Association Meetings^{p†}, ECB Forum on Central Banking (Sintra)^p, Society for Economic Dynamics Annual Meeting^p, Oxford Financial Intermediation Theory Conference^p, Yale Program on Financial Stability (YPFS) Conference*, Baffi Carefin Banking Conference (Bocconi)[†], CREDIT “New Credit Solutions for the Real Economy”*, Regulating Financial Markets Conference (Frankfurt)[†], Workshop in Macro Banking and Finance (Rome)*, European Banking Center Network Conference (Tilburg)^p, Monetary Policy Implementation in the Long

Run (Minneapolis Fed)[†], Atlanta Fed “The Impact of Extraordinary Monetary Policy on the Financial Sector” Conference^p, Workshop on Empirical Monetary Economics (Sciences Po)*.

Seminars: Rochester Simon, European Central Bank, UCLA Anderson, McGill Desautels, Boston Fed, Fed Board, Fordham Gabelli, NYU Stern.

2014-15

Conferences: MFM Winter Group Meeting^p, Barcelona GSE Summer Forum^p, London Business School TADC^p, First ECB Forum on Central Banking (Sintra)*, Second ECB Forum on Central Banking (Sintra)*, Ninth Annual Meeting of the Portuguese Economic Journal*, 3rd NYU Economics Alumni Conference*, Second Belgrade YEC^p, Finance, Economics Graduate Student Conference (WashU)*, Bocconi-Carefin Conference^p, Capital Reallocation and Growth 1st FGN Conference (St. Gallen)^p

Seminars: NYU Stern, NYU Econ, Universiteit van Amsterdam.

DISCUSSIONS

1) Credit and Social Unrest: Evidence from 1930s China by Braggion, Manconi, Zhu, *European Finance Association Meetings (Warsaw)*, August 2018.

2) Capital Requirements for Government Bonds: Implications for Bank Behaviour and Financial Stability by Neyer and Sterzel, *European Finance Association Meetings (Warsaw)*, August 2018.

3) Sharing the Pain? Credit Supply and Real Effects of Bank Bail-ins by Beck, Da-Rocha-Lopes, Silva, *Annual FIRS Finance Conference (Barcelona)*, June 2018.

4) Villains or Scapegoats? The Role of Subprime Borrowers during the Housing Boom by Conklin, Frame, Gerardi, Liu, *Western Finance Association Meeting*, June 2018.

5) The Rise of Shadow Banking: Evidence from Capital Regulation by Irani, Iyer, Meisenzahl, Peydro, *EuroFIT Workshop “Financial Intermediation and Risk”*, May 2018.

6) FinTech Credit and Service Quality: Evidence from Alibaba Online Merchants by Huang, Lin, Sheng, Wei, *SFS Cavalcade (Yale)*, May 2018.

7) Making Room for the Needy: the Credit-Reallocation Effects of the ECB’s Corporate QE by Arce, Gimeno, and Mayordomo, *Fixed Income and Financial Institutions Conference, University of South Carolina*, April 2018.

8) Intermediaries and Asset Prices: Evidence from the U.S., U.K., and Japan, 1870-2016 by Baron and Muir, *Second Maryland Junior Finance Conference*, April 2018.

9) Banking on the Boom, Tripped by the Bust: Banks and the World War I Agricultural Price Shock by Wheelock and Jaremski, *Midwest Finance Association Annual Meeting*, March 2018.

10) Whatever it Takes: The Real Effects of Unconventional Monetary Policy, by Acharya, Eisert, Eufinger, and Hirsch, *Western Finance Association Meeting*, June 2017.

11) Inefficient Banking, by Begenau and Stafford, *Regulating Financial Markets Conference (Frankfurt)*, June 2017.

12) Does a Larger Menu Increase Appetite? Collateral Eligibility and Bank Risk-Taking, by Van Bakkum, Gabarro, Irani, *Baffi Carefin Annual International Banking Conference (Bocconi)*, October 2016.

13) Surviving the Perfect Storm: The Role of the Lender of Last Resort, by Alves, Bonfim, Soares, *Monetary Policy Implementation in the Long Run (Minneapolis Fed)*, October 2016.

14) Lending Standards Over the Credit Cycle, by Rodano, Serrano-Velarde, Tarantino, *European Finance Association Meetings (Oslo)*, August 2016.

15) Lending-of-last-resort is as Lending-of-last-resort Does: Central Bank Liquidity Provision and Interbank Market Functioning in the Euro Area, by Garcia-de-Andoain, Heider, Hoerova, Manganeli, *Regulating Financial Markets Conference (Frankfurt)*, May 2016.

REFEREING *Review of Economic Studies, Journal of Finance, Journal of Monetary Economics, Journal of Financial Economics, Review of Financial Studies, Review of Finance, Journal of Financial and Quantitative Analysis, Journal of the European Economic Association, Journal of Banking and Finance, International Journal of Central Banking, Journal of Financial Stability, Economica, Journal of Money, Credit, and Banking.*

MEDIA
COVERAGE Wall Street Journal, April 2017; VoxEU.org, April 2017; Wall Street Journal, February 2017; Il Sole 24 Ore, October 2016; Frankfurter Allgemeine Zeitung, January 2016.

TEACHING **Michigan Ross**
- Financial Management, UG, Winter 2019

NYU Stern
- Executive MBA Finance Pre-Module Tutorial, Spring 2015
- Foundations of Finance, UG, Summer 2014, *Awarded Teaching Commendation*
- Teaching Assistant for Sovereign and Financial Credit Risk (Ph.D.)
- Teaching Assistant for Credit Risk; Advanced Futures and Options (MBA)
- Teaching Assistant for Foundations of Finance; Behavioral Finance (UG, MBA)

NON ACADEMIC
POSITIONS **JP Morgan**, London
Intern, Interest Rates Strategy, Summer 2011

REFERENCES

<p>Prof. Viral Acharya Leonard N. Stern School of Business New York University 44 West Fourth Street, Suite 9-190 Email: vacharya@stern.nyu.edu Tel: (212)998-0354</p> <p>Prof. Alexi Savov Leonard N. Stern School of Business New York University 44 West Fourth Street, Suite 9-85 Email: asavov@stern.nyu.edu Tel: (212)998-0311</p>	<p>Prof. Philipp Schnabl Leonard N. Stern School of Business New York University 44 West Fourth Street, Suite 9-76 Email: schnabl@stern.nyu.edu Tel: (212)998-0356</p> <p>Prof. Andres Liberman Leonard N. Stern School of Business New York University 44 West Fourth Street, Suite 9-53 Email: aliberma@stern.nyu.edu Tel: (212)998-0322</p>
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LANGUAGES \LaTeX , Matlab, Python, STATA

PERSONAL Born July 23, 1988. Italian citizen. H-1B VISA

OTHER Tennis player. Highest rankings: 2.8 (Italy), 3.1 (UK), 5.5 NTRP (US)