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## Employment

2023 - present    Economic Policy Advisor, Federal Reserve Bank of St. Louis  
2022 - present    Lecturer, Washington University in St. Louis  
2021 - 2023       Senior Economist, Federal Reserve Bank of St. Louis  
2017 - 2021       Economist, Federal Reserve Bank of St. Louis

## Education

2011 - 2017    Ph.D., Economics, New York University  
2009 - 2011    M.Res., Economics, Universidade Nova de Lisboa  
2006 - 2009    Licenciatura (B.A.), Economics, Universidade Nova de Lisboa  
Erasmus Program at Universiteit Maastricht

## Publications

“Artificial Intelligence and Inflation Forecasts” (with F. Leibovici)  
Accepted at the *Federal Reserve Bank of St. Louis Review*, 2024

“Fiscal Multipliers and Financial Crises”  
*Review of Economics and Statistics*, 106, 2024

“Evergreening” (with P. Paul and J. M. Sánchez)  
*Journal of Financial Economics*, 153, 2024 , Editor’s Choice (lead article)

“Pandemic labor force participation and net worth fluctuations” (with S. Jordan-Wood)  
*Federal Reserve Bank of St. Louis Review*, First Quarter 2024

“Measuring Labor Supply and Demand Shocks during COVID-19” (with P. Brinca and J. B. Duarte)  
*European Economic Review*, 139, 2021

“Fiscal Policy during a Pandemic”  
*Journal of Economic Dynamics & Control*, 125, 2021

“The (unintended?) consequences of the largest liquidity injection ever” (with M. Crosignani and L. Fonseca)  
*Journal of Monetary Economics*, 112, 2020

“Runs versus Lemons: Information Disclosure and Fiscal Capacity” (with J. Martinez and T. Philippon)  
*Review of Economic Studies*, 84(4), 2017

“The Portuguese banking sector during the sovereign debt crisis” (with M. Crosignani and L. Fonseca)  
*Banco de Portugal Economic Studies*, 1(2), 2015

“Mapping a country’s competitive position: a real exchange rate approach” (with J. Zambujal-Oliveira)  
*Studies in Economics and Finance*, 28(3), 2011

## Book Chapters & Other Publications

“The Krugman-Macedo Diagram Revisited” (with M. Lebre de Freitas)  
in *Economic Globalization and Governance: Essays in Honor of Jorge Braga de Macedo*, Springer, 2021

“Introduction to the Special Issue of the Gerzensee Conference” (with B. Dupor)  
*Journal of Economic Dynamics & Control*, 115, 2020

## Working Papers

- “Dissecting the Great Retirement Boom”, with S. Birinci and K. See  
*R&R at the Journal of Monetary Economics*
- “An Empirical Analysis of the Cost of Borrowing”, with S. Jordan-Wood and J. Kozlowski
- “The St. Louis Fed DSGE Model”
- “A Quantitative Analysis of Bank Lending Relationships”, with K. Dempsey  
*R&R at the Journal of Financial Economics*
- “EBITDA Add-backs in Debt Contracting: A Step Too Far?”, with A. Pal, R. Gopalan, J. M. Sanchez, V. Yerramilli
- “Credit and Liquidity Policies during Large Crises”, with M. Ebsim, J. Kozlowski  
*R&R at the JPE: Macro*
- “A Quantitative Analysis of the Countercyclical Capital Buffer”
- “The Nonlinear Effects of Fiscal Policy”, with P. Brinca, M. H. Ferreira, H. Holter  
*R&R at the Journal of Public Economics*
- “A note on information disclosure and adverse selection”, with J. Martinez, T. Philippon
- “Risk incentives in an interbank network”

## Work in Progress

- “A High-Frequency Bank Stress Index”, with K. Kliesen and M. McCracken
- “The Macroeconomics of Commercial Real Estate”, with C. Garriga
- “Evergreening in General Equilibrium”, with P. Paul and J. M. Sanchez
- “Relationship Lending and Financial Stability”, with K. Dempsey
- “Quantitative Tightening”, with V. Elenev and D. Greenwald
- “Measuring the Cost of Capital”, with J. Kozlowski and J. Majerowitz

## Seminar Presentations (incl. scheduled)

- 2024 FRB Chicago
- 2023 Queen Mary University of London, Bank of England, London Business School
- 2022 FRB Kansas City, Penn State, University of the Azores, IMF, Banco de Portugal
- 2021 McGill University, Virtual Australian Macro Seminar, FRB St. Louis
- 2020 Banco de México (×2), ITAM, Federal Reserve System Webinar, Federal Reserve Board of Governors, Banco de Portugal, Bank of England, FRB Chicago, FRB St. Louis
- 2019 Paris School of Economics, European University Institute, Einaudi Institute for Economics and Finance, DePaul University, FRB St. Louis
- 2018 FRB St. Louis, Johns Hopkins SAIS
- 2017 FRB St. Louis, Indiana Kelley, FRB San Francisco, UT Austin McCombs, London School of Economics, Georgetown, Federal Reserve Board of Governors, Minnesota, MIT Sloan, London Business School, Cambridge, Cornell, Notre Dame, European Central Bank, Nova SBE, NYU, Wharton, University of Lisbon (ISEG), FRB Philadelphia
- 2016 University of Amsterdam, Banco de Portugal, NYU, NYU Stern
- 2015 IGCP (Portuguese Treasury Agency)

## Conference Presentations (incl. scheduled)

- 2024 Central Bank of Chile CCyB Workshop
- 2023 OCC Symposium on Emerging Risks in the Banking System, Durham Macro Conference, SED (Cartagena), NBER Summer Institute (EFEL), Computational and Financial Econometrics (Berlin)
- 2022 ASSA/AEA (Boston), Society for Nonlinear Dynamics and Econometrics, Theories and Methods in Macroeconomics (King's College London), FINPRO Conference (EBRD/Halle Institute for Economic Research), SED (Madison), 2nd MoFiR Workshop on Banking (Lisbon), 15th PEJ Meeting (Univ. dos Açores), European Finance Association (Barcelona), CEBRA (Barcelona), St. Louis Fed-WUSTL Olin Workshop, Liquidity in Macro Workshop (Simon Fraser U), Banco de Portugal Christmas Workshop
- 2021 SED (Minneapolis), North American Meetings of the Econometric Society, Society for Computational Economics, 15th PEJ Meeting (Católica Porto), European Economic Association, "Bank Crisis Management - What next?" (EUI & Florence School of Banking and Finance), Kent Firms Workshop, 8th Conference on New Developments in Business Cycle Analysis (Danmarks Nationalbank, Bundesbank & Norges Bank), Christmas Workshop on Accounting and Finance (Universidade do Porto)
- 2020 CEBRA, European Economic Association, NBER Summer Institute (EFMM), Annual International Journal of Central Banking Conference, Computational and Financial Econometrics Conference
- 2019 ASSA/AEA (Atlanta), Theories and Methods in Macro Conference (Nuremberg), Society for Nonlinear Dynamics and Econometrics (FRB Dallas), 13th PEJ Meeting (Évora), 11th Tsinghua Workshop in Macroeconomics, 2nd China International Conference in Macroeconomics (Shenzhen), CEBRA (FRB New York), 112th Annual Conference of the National Tax Association
- 2018 Conference on Nonlinear Macroeconomics (Norges Bank), Housing-Urban-Labor-Macro Workshop (FRB St. Louis), Federal Reserve System Committee on Macroeconomics (FRB San Francisco), 49th Konstanz Seminar on Monetary Theory and Policy, LACEA/LAMES (Guayaquil)
- 2017 Chicago Financial Institutions Conference, CEPR Macro Model Comparison Research Conference (Frankfurt), SED (Edinburgh), 11th PEJ Meeting (Vila Real), NBER Summer Institute (EFEL), Federal Reserve System Committee on Macroeconomics (FRB Chicago), Economic Research and High Performance Computing Workshop (FRB Kansas City), ECB Conference on Fiscal Policy and Public Debt Sustainability
- 2016 ASSA/AFA (San Francisco), 10th PEJ Meeting (Coimbra), Yale SOM Fighting a Financial Crisis Conference, EconCon (Princeton)
- 2015 Cowles Foundation Conference on General Equilibrium and its Applications, SED (Warsaw), Conference on Endogenous Financial Networks (Banque de France-FRB Cleveland), 9th PEJ Meeting (Angra do Heroísmo), 10th Washington University in St. Louis EGSC
- 2014 9th Washington University in St. Louis EGSC
- 2013 Stats in Paris (ENSAE)

## Academic Visits

- October 2023 University of Oxford
- December 2022 Banco de Portugal
- March 2020 Banco de México
- April 2018 FRB San Francisco
- September 2016 University of Amsterdam, Finance Department
- Summer 2015 Banco de Portugal

## Conference Discussions (incl. scheduled)

- 2024 Midwest Finance Association, Chicago  
“Global Footprint of US Fiscal Policy” (Kim)
- 2023 Macro x the Pond (ECB/FRB Philadelphia/Sveriges Riksbank)  
“Dynamic Credit Constraints: Theory and Evidence from Credit Lines” (Amberg, Jacobson, Quadrini & Picco)
- 2021 Federal Reserve Board of Governors External Webinar  
“Redistribution and the Monetary-Fiscal Policy Mix” (Bhattarai, Lee & Yang)
- 2021 Barcelona GSE Summer Forum  
“A Q-Theory of Banks” (Begenau, Bigio, Majerovitz & Vieyra)
- 2021 American Real Estate and Urban Economics Association  
“Designing a Crisis Liquidity Facility with Nonbank Counterparties: Lessons from the TALF” (Covitz, Meisenzahl & Pence)
- 2019 Joint Central Bankers’ Conference (FRB Atlanta)  
“Sources of Borrowing and Fiscal Multipliers” (Priftis)
- 2019 Theories and Methods in Macroeconomics Conference (Nuremberg)  
“How Does Consumption Respond to a Transitory Income Shock? Reconciling Natural Experiments and Semi-Structural Estimations” (Commault)
- 2018 Federal Reserve System Conference on Financial Institutions (FRB Philadelphia)  
“An Information Based Theory of Financial Intermediation” (Bethune, Sultanum & Trachter)
- 2018 NBER DSGE Workshop (FRB Chicago)  
“A Quantitative Theory of Hard and Soft Sovereign Defaults” (Gordon & Guerron-Quintana)
- 2018 ITAM Finance Conference  
“The employment effects of unconventional monetary policy: Evidence from QE” (Luck & Zimmermann)
- 2018 Midwest Finance Association (San Antonio)  
“Interbank Network Disruptions and the Real Economy” (Safonova)
- 2016 EconCon (Princeton)  
“Idiosyncratic Distortions and Technology Adoption” (Ayerst)

## Refereeing

American Economic Review; Review of Economic Studies; Journal of Monetary Economics; American Economic Journal: Macroeconomics; Journal of International Economics; Games and Economic Behavior; Economic Systems; The B.E. Journal of Macroeconomics; Journal of Economic Dynamics & Control; International Journal of Central Banking; Journal of Economic Theory; Review of Economic Dynamics; Macroeconomic Dynamics; Journal of Empirical Finance; Federal Reserve Bank of St. Louis Review; Fundação Francisco Manuel dos Santos Research Grants; Journal of Banking and Finance; Economic Modelling; Canadian Journal of Economics/Revue Canadienne d’Économie; Economic Journal; Quantitative Economics; European Economic Review; Journal of Economic Surveys; Oxford Bulletin of Economics and Statistics; Journal of the European Economic Association; Journal of Money Credit and Banking; Journal of Financial Intermediation; Review of Economic Analysis; Journal of Economics, Race, and Policy; German Economic Review; National Science Foundation; SAGE Open; Deutsche Bundesbank Discussion Papers; Journal of Financial Stability; International Finance; Health Economics; Journal of Financial Economics; Cogent Economics and Finance; MIT Press; American Economic Review: Insights; Economics Bulletin; Annals of Financial Economics; SERIEs (Journal of the Spanish Economic Association); Quarterly Review of Economics and Finance; International Economic Review; Review of Financial Studies; The Manchester School; Management Science; Journal of Finance; Bank of England Working Paper Series; Journal of Economic Behavior and Organization; Journal of Political Economy

## Conference Program & Seminar Coordination

2024	3rd Winter Meeting of Portuguese Central Bank Economists, Bank of Portugal
2023	2nd Winter Meeting of Portuguese Central Bank Economists, Bank of Portugal
2023	Liquidity in Macroeconomics (LiMa), St. Louis MO
2023	St. Louis Advances in Research (STLAR), St. Louis MO
2023	Society for Economic Dynamics, Cartagena, Colombia
2023	Annual Meeting of the Central Bank Research Association, New York
2022	1st Winter Meeting of Portuguese Central Bank Economists, Bank of Portugal
2022	Financial Stability Considerations for Monetary Policy, FRB New York
2022	Annual Meeting of the Central Bank Research Association, Barcelona
2022	Society for Economic Dynamics, Madison WI
2021	Annual Meeting of the Central Bank Research Association, Virtual
2020	Federal Reserve System Committee on Financial Institutions, Virtual
2020	Federal Reserve System Webinar Series, Virtual
2020	Summer Meeting of the International Banking, Economics and Finance Association, Denver CO
2019	Co-organizer of the FRBSTL-SNB-UniBern JEDC Gerzensee Conference, Gerzensee, Switzerland
2019	ASSA/AEA contributed session, “Mortgages and Monetary Policy”, Atlanta GA
2018-2021	Macroeconomics Seminar Coordinator, St. Louis Fed, St. Louis MO

## Other Academic and Professional Activities

<i>PhD Committee:</i>	Rodolfo Oviedo, Washington University in St. Louis, 2018 José Martinez-Gutierrez, Washington University in St. Louis, 2024 Joseph Kachovec, Washington University in St. Louis, 2025 exp.
<i>Editorial:</i>	Guest editor for a conference issue of the <i>Journal of Economic Dynamics &amp; Control</i> , 2020 Ad-hoc editor for <i>SAGE Open: Economics</i> , 2021-2022
<i>Membership:</i>	American Economic Association, Portuguese Economic Network, Macro Finance Society

## Teaching Experience

### As main instructor:

*Washington University in St. Louis*

Intermediate Macroeconomic Theory (BA) Spring 2025, Fall 2023, Spring 2023, Spring 2022

### As teaching assistant:

*New York University, Arts & Sciences*

Intermediate Macroeconomics (BA) Spring 2016, Spring 2015

Money and Banking (BA) Fall 2015

Macroeconomic Theory II (PhD) Spring 2013

*New York University, Stern School of Business*

Risk Management in Financial Institutions (MBA and BA) Fall 2014

International Macroeconomics and Finance (PhD) Fall 2014

Advanced Macroeconomics (MBA) Spring 2012

*Universidade Nova de Lisboa*

Intermediate Macroeconomics (BA) Spring 2011, Spring 2010

Calculus II (BA) Fall 2010, Fall 2009

## Honors, Scholarships, and Fellowships

2020	Member of a panel of 20 economists advising the PM of Portugal on the COVID-19 recovery
2020	Member of a panel of 25 economists advising the PM of Portugal on the COVID-19 crisis
2017	Participant in the 4th ECB Forum on Central Banking
2016 - 2017	Dean's Dissertation Fellowship, New York University GSAS
2015	SUERF/UniCredit Universities Research Prize
2015	Participant in the 2nd ECB Forum on Central Banking
2012	Best Essay in Economic Policy, Ordem dos Economistas
2011 - 2016	Henry M. MacCracken Fellowship, New York University
2011	Fundação Amélia de Mello Award
2011	Saint-Gobain Glass Award
2010 - 2011	Graduate Scholarship, Fundação para a Ciência e Tecnologia
2009	Banco de Portugal Award
2009	Democracia e Desenvolvimento Award, President of the Portuguese Republic
2008	Undergraduate Scholarship, Fundação para a Ciência e Tecnologia
2006	Deloitte Excellence Award

## Panel Interventions and OpEds (selected)

2024	Panelist at conference "A New Strategic Framework for Industrial Policy in Portugal", Government of Portugal
2023	Book review of "O Governador" by Luis Rosa, centralbanking.com
2023	Profiled for the 50th anniversary of the newspaper Expresso
2023	Panelist at Economia Viva Forum: "Are we losing control of inflation?", Nova SBE
2022	"Understanding the 30s in order to avoid a new Great Depression", OpEd @ Public
2022	"Inflation and remittances of the Bank of Portugal to the Treasury", OpEd @ ECO
2021	"Inflation, public finance, and opportunity costs", OpEd @ Jornal de Negocios
2021	Panelist at Economia Viva Forum: "The European Recovery Plan", Nova SBE
2021	"The erosion of the public capital stock in Portugal", OpEd @ ECO
2020	"Unemployment and Covid-19: some simple estimates for Portugal", OpEd @ ECO
2018	"Quantitative Easing and the challenges of normalization", Oped @ Publico
2018	"Ten years post Great Recession - are we prepared for the next one?", OpEd @ Publico
2018	Comment on the Franco-German Proposal for euro area reform, IPP Policy Brief 11
2018	Panelist at Economia Viva Forum: "10 years after Lehman Brothers", Nova SBE

## References

Available upon request.