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## RESEARCH INTERESTS

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### Macroeconomics & Economic Dynamics

- *Sustainable development, Heterogeneous agents, Demand-led growth, Real-financial market interactions.*  
– Italian *Abilitazione Scientifica Nazionale* as Associate Professor in *Economia Politica*, SECS-P/01.

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## EDUCATION

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- **University of Siena** Siena, Italy  
*PhD Economics* *November 2015 – November 2018*  
– Visiting scholar at *University of Massachusetts Amherst, United States*
- **Federal University of Minas Gerais** Belo Horizonte, Brazil  
*MSc Economics* *January 2014 – October 2015*  
– 16th Summer School in Latin American Economies  
Economic Commission for Latin America and Caribbean, United Nations, Chile  
– The Hyman P. Minsky Summer Seminar  
Levy Institute, Bard College, United States
- **University of Brasilia** Brasilia, Brazil  
*BSc Economics* *August 2010 – December 2013*

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## ACADEMIC EXPERIENCE

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- **University of Siena** Siena, Italy  
*Department of Economics and Statistics*  
– Tenure-track Assistant Professor of *Economia Politica* *From July 2022*  
– Post-doctoral Research Fellow *November 2018 – March 2021*
- **Bucknell University** Lewisburg, United States  
*Department of Economics* *March 2021 – June 2022*  
– Tenure-track Assistant Professor of *Macroeconomics*

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## PUBLICATIONS

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1. [How robust is the natalist bias of pollution control?](#) (with A. Cafferata). *Annals of Operations Research*. Online first.
2. [How do you feel about going green? Modelling environmental sentiments in a growing open economy](#) (with A. Cafferata and S. Sordi). *Journal of Economic Interaction and Coordination*. Online first.
3. [Thirlwall's law: Binding-constraint or centre-of-gravity?](#) (with S. Sordi). *Metroeconomica* 75(1): 52-82, 2024.
4. [International trade and economic growth in Croatia](#) (with L. Srdelić). *Structural Change and Economic Dynamics* 68: 240-258, 2024.
5. [The Green-MKS system: A baseline environmental macro-dynamic model](#) (with S. Sordi). *Journal of Economic Behavior & Organization* 212: 1056-1085, 2023.
6. [Competitiveness and dynamic cumulative causation in an export-led growing economy](#) (with J. Oreiro). *Industrial and Corporate Change* 32(2): 522-550, 2023.
7. [A small-scale agent-based model of technological and institutional change](#) (with S. Sordi). *Communications in Nonlinear Science and Numerical Simulation* 116: 106865, 2023.

8. [A two-stroke growth cycle model for a small open economy](#) (with S. Sordi). *Chaos, Solitons & Fractals* 163: 112569, 2022.
9. [The Kuznets curve of the Rich](#) (with L. Punzo). *Economic Systems* 45(4): 100910, 2021.
10. [Seeing what can\(not\) be seen: cognitive biases and climate change](#) (with A. Cafferata and S. Sordi). *Journal of Economic Behavior & Organization* 189: 567-586, 2021.
11. [\(Ir\)rational explorers in the financial jungle: Modelling Minsky with heterogeneous agents](#) (with A. Cafferata and S. Sordi). *Journal of Evolutionary Economics*. 31(4): 1157-1188, 2021.
12. [Investment behaviour and “bull-bear” dynamics: Modelling real and stock market interactions](#) (with S. Sordi). *Journal of Economic Interaction and Coordination* 15, 867-897, 2020.
13. [A New Developmentalist model of structural change, economic growth and middle-income traps](#) (with J. Oreiro and K. Silva). *Structural Change and Economic Dynamics* 55, 26-38, 2020.
14. [Structural change in a growing open economy: Attitudes and institutions in Latin America and Asia](#) (with S. Sordi). *Economic Modelling* 91, 358-385, 2020.
15. [Alternative approaches to technological change in a small open economy](#). *Journal of Evolutionary Economics* 30(2), 279-317, 2020.
16. [Attitudes towards climate policies in a macrodynamic model of the economy](#) (with S. Sordi). *Ecological Economics* 169, 2020.
17. [Financialisation as structural change: Measuring the financial content of “things”](#) (with L. Punzo). *Economic Systems Research* 32(1), 98-120, 2020.
18. [Some new insights on the empirics of Goodwin’s growth-cycle model](#) (with R. Araújo and H. Moreira). *Structural Change and Economic Dynamics* 51, 42-54, 2019.
19. [Path dependence, distributive cycles and export capacity in a BoPC growth model](#) (with S. Sordi). *Structural Change and Economic Dynamics* 50, 258-272, 2019.
20. [Distributive cycles and endogenous technical change in a BoPC growth model](#) (with S. Sordi). *Economic Modelling* 77, 216-233, 2019.

#### **Under Review and R&R**

1. Demographic transition and long-run growth in 6-EU member states (with L. Srdelić). Submitted to: *Cambridge Journal of Economics*. Current status: Under Review.
2. Samuelson’s last macroeconomic model: Secular stagnation and endogenous cyclical growth (with M. Assous and M. Boianovsky). Submitted to: *Structural Change and Economic Dynamics*. Current status: Under Review.

#### **Work in Progress**

1. A discrete-time growth cycle model with real-financial interactions (with S. Sordi and A. Naimzada).
2. Climateflation and monetary policy in an environmental OLG growth model (with E. Carrera and G. Giombini).
3. Endogenous political cleavages and the economics of climate change (with C. Proano and S. Sordi).
4. Modelling the political economy of climate change in mature vs dual-economies (with M. Davila-Davila).

## GRANTS AND AWARDS

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- **F-New Frontiers** 15 000 BRL  
*University of Siena* 2024 – 2025  
– For the research project *Macro HET: The Macroeconomics of Heterogeneity in Ecological Thinking in the Global South*.  
Role: Principle Investigator.
- **CNPq Consolidation Grant** 73 750 BRL  
*Brazilian Ministry of Science, Technology and Innovation* 2024  
– For the research project *Green New Developmentalism: Institutions and Public Policies for Reindustrialisation with Environmental Sustainability and Social Inclusion*. Role: Associate Researcher.
- **PCTec Innovation Grant** 15 000 BRL  
*University of Brasilia* 2023  
– For the scientific event *3rd Structuralist Development Macroeconomics International Workshop: Public Policies for Innovation, Social Inclusion and Environmental Sustainability*. Role: Organisation and scientific committee.
- **Barry R. Maxwell Award** 2500 USD  
*Bucknell University* 2022  
– For exceptional collaborative efforts during the COVID-19 pandemic
- **Jane W. Griffith Fellowship** 15 000 USD  
*Bucknell University* 2021  
– For superior newly hired faculty. Grant number: PJ602761.

## LANGUAGES

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- **Native/bilingual:** Portuguese and Spanish
- **Proficient/Fluent:** English and Italian

## JOURNAL REFEREE

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Journal of Economic Behavior & Organization (4); Journal of Economic Surveys (1); Communications in Nonlinear Science and Numerical Simulations (2); Economic Modelling (2); Physica A (1); Structural Change and Economic Dynamics (4); Journal of Evolutionary Economics (5); Computational Economics (3); Economic Systems (3); Annals of Operations Research (2); Socio-Economic Planning Sciences (2); Applied Economics (1); Metroeconomica (5); Review of Political Economy (1); Review of Keynesian Economics (2); Journal of Post Keynesian Economics (1); Public Finance Review (1); International Journal of Social Economics (1); Economia Politica (1); Brazilian Journal of Political Economy (7); EconomiA (2); Nova Economia (1); Análise Econômica (2).

## CONFERENCE ORGANISER

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1. 1st–3rd Structuralist Development Macroeconomics International Workshop. Brasilia, Brazil, 2021 – 2023.

## RECENT CONFERENCE PRESENTATIONS & SPECIAL SESSIONS ORGANISER

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1. 47th AMASES Annual Meeting, Milan, Italy, 2023.
2. 2nd Workshop on Heterogeneity Evolution and Networks in Economics, Florence, Italy, 2023.
3. 13th Nonlinear Economic Dynamics Conference. Kristiansand, Norway, 2023.
4. 49th EEA Annual Conference. New York, United States, 2023.
5. 6th ASTRIL Conference. Rome, Italy, 2023. Special Session: Structural Change & Development Macroeconomics.
6. 26th Forum for Macroeconomics and Macroeconomic Policies Conference. Berlin, Germany, 2022.
7. 46th AMASES Annual Meeting, Palermo, Italy, 2022.
8. 11th Dynamic Models in Economics and Finance Workshop, Urbino, Italy, 2022.
9. 33rd EAEPE Annual Conference, 2021. Online due to COVID-19.
10. 24th WEHIA Conference, Milan, Italy, 2021. Online due to COVID-19.

## DOCTORAL THESIS SUPERVISIONS

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- **Nandu Nair** University of Siena  
*Essays on the Dynamics of Public Debt in Dual-Economies*  
*Expected – 2026*
- **Paulo Medeiros** University of Siena  
*Three Essays on Macro-Financial Dynamics*  
*Expected – 2024*  
– Co-supervision with Giuliano Curatola

## SOFTWARES

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- **Econometrics:** Eviews; Stata
- **Mathematics:** MATLAB; *Mathematica*; Scientific Workplace