
RESEARCH INTERESTS**Macroeconomics & Nonlinear Economic Dynamics**

- *Sustainable Development, Heterogeneous Agents, Demand-led growth, Real-Financial market interactions.*

EDUCATION

- **University of Siena** Siena, Italy
• *PhD Economics & Post-doctoral Fellowship* 2015 – 2020
 - Visiting scholar at *University of Massachusetts Amherst, United States*
- **Federal University of Minas Gerais** Belo Horizonte, Brazil
• *MSc Economics* 2014 – 2015
 - 16th Summer School in Latin American Economics
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* 2010 – 2013

ACADEMIC EXPERIENCE

- **Colorado State University** Fort Collins, United States
• *Department of Economics* From 2025
 - Assistant Professor of *Political Economy*
- **University of Siena** Siena, Italy
• *Department of Economics and Statistics* 2022-2025
 - Assistant Professor (RTDB) of *Economia Politica*
- **Bucknell University** Lewisburg, United States
• *Department of Economics* 2020 – 2022
 - Assistant Professor of *Macroeconomics*

PUBLICATIONS**Green-growth & Climate change**

1. [Climateflation and monetary policy in an environmental OLG growth model](#) (with G. Giombini and E. Sanchez-Carrera). *Environmental & Resource Economics*. 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* 19(4), 649-687, 2024.
3. [How robust is the natalist bias of pollution control?](#) (with A. Cafferata). *Annals of Operations Research* 337: 1111-1133, 2024.
4. [The Green-MKS system: A baseline environmental macro-dynamic model](#) (with S. Sordi). *Journal of Economic Behavior & Organization* 212: 1056-1085, 2023.
5. [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.
6. [Attitudes towards climate policies in a macrodynamic model of the economy](#) (with S. Sordi). *Ecological Economics* 169, 2020.

Open economies: Growth-cycle dynamics & Uneven development

1. [Demographic transition and economic growth: Insights from the dynamic trade-multiplier](#) (with L. Srdelić). *Cambridge Journal of Economics* 49(4): 755-795, 2025.
2. [Thirlwall's law: Binding-constraint or centre-of-gravity?](#) (with S. Sordi). *Metroeconomica* 75(1): 52-82, 2024.

3. International trade and economic growth in Croatia (with L. Srdelić). *Structural Change and Economic Dynamics* 68: 240-258, 2024.
4. Competitiveness and *dynamic* cumulative causation in an export-led growing economy (with J. Oreiro). *Industrial and Corporate Change* 32(2): 522-550, 2023.
5. A two-stroke growth cycle model for a small open economy (with S. Sordi). *Chaos, Solitons & Fractals* 163: 112569, 2022.
6. 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.
7. Structural change in a growing open economy: Attitudes and institutions in Latin America and Asia (with S. Sordi). *Economic Modelling* 91, 358-385, 2020.
8. Alternative approaches to technological change in a small open economy. *Journal of Evolutionary Economics* 30(2), 279-317, 2020.
9. Path dependence, distributive cycles and export capacity in a BoPC growth model (with S. Sordi). *Structural Change and Economic Dynamics* 50, 258-272, 2019.
10. Distributive cycles and endogenous technical change in a BoPC growth model (with S. Sordi). *Economic Modelling* 77, 216-233, 2019.

Closed economies: Real-financial market interactions & Structural change

1. A discrete-time growth cycle model with real-financial interactions (with S. Sordi and A. Naimzada). *Economic Modelling* 149, 107103, 2025.
2. Samuelson's last macroeconomic model: Secular stagnation and endogenous cyclical growth (with M. Assous and M. Boianovsky). *Structural Change and Economic Dynamics* 69: 417-426, 2024.
3. A small-scale agent-based model of technological and institutional change (with S. Sordi). *Communications in Nonlinear Science and Numerical Simulation* 116: 106865, 2023.
4. The Kuznets curve of the Rich (with L. Punzo). *Economic Systems* 45(4): 100910, 2021.
5. (Ir)rationals 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.
6. 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.
7. Financialisation as structural change: Measuring the financial content of “things” (with L. Punzo). *Economic Systems Research* 32(1), 98-120, 2020.
8. 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.

Under Review and R&R

1. Low-carbon transition policies, structural change-driven inequality, and endogenous political cleavages (with C. Proano and S. Sordi). Submitted to: *Energy Economics*. Current status: Revise & Resubmit.

Work in Progress

1. Modelling green attitudes and informality: Implications for structural change across the North-South divide (with M. Davila-Davila).
2. FX-constrained growth: Fundamentalists, chartists and the dynamic trade-multiplier (with S. Sordi).
3. Stochastic sensitivity, noise-induced transitions, and the political economy of climate change (with Tatyana Perevalova).
4. Veblen effects and broken windows in an environmental OLG model (with N. Blampied and A. Cafferata).
5. The unequal politics of climate action: Peer effects, damage functions, and policy preferences across skill groups (with C. Proano)

GRANTS

• UK-Brazil Global Talent	20 000 GBP
• <i>ESRC & Brazilian National Council for the State Funding Agencies</i>	2024 – 2025
– <i>Environmental Consumption, Production, and Voting Preferences</i> . Role: Co-Investigator.	
• F-New Frontiers	20 000 EUR
• <i>University of Siena & YSI/INET</i>	2024 – 2025
– <i>The Macroeconomics of Heterogeneity in Ecological Thinking in the Global South</i> . Role: Principal Investigator.	
• CNPq Consolidation Grant	73 750 BRL
• <i>Brazilian Ministry of Science, Technology and Innovation</i>	2024 – 2026
– <i>Green New Developmentalism: Institutions and Public Policies for Reindustrialisation with Environmental Sustainability and Social Inclusion</i> . Role: Co-Investigator.	

AWARDS AND FELLOWSHIPS

Start-Up Research Grant, Colorado State University (2025); UnB Alumni Merit Award, University of Brasilia (2024); PCTec Innovation Fellowship, University of Brasilia (2023); Barry R. Maxwell Award, Bucknell University (2022); Jane W. Griffith Fellowship, Bucknell University (2021); MF Best Article Award, Brazilian Ministry of Finance (2014).

JOURNAL REFEREE

Metroeconomica (8); Journal of Economic Behavior & Organization (6); Journal of Evolutionary Economics (5); Structural Change and Economic Dynamics (5); Macroeconomic Dynamics (4); Computational Economics (3); Economic Modelling (3); Economic Systems (3); Annals of Operations Research (2); Communications in Nonlinear Science and Numerical Simulations (2); Energy Economics (2); Journal of Economic Interaction and Coordination (2); Journal of Institutional Economics (2); Review of Keynesian Economics (2); Review of Political Economy (2); Applied Economics (1); Decisions in Economics and Finance (1); Economia Politica (1); European Economic Review (1); European Journal of Operational Research (1); International Journal of Social Economics (1); Journal of Economic Surveys (1); Journal of International Financial Markets, Institutions & Money (1); Journal of Post Keynesian Economics (1); Mathematics and Computers in Simulation (1); Physica A (1); Public Finance Review (1); Review of Social Economy (1).

INSTITUTIONAL RESPONSABILITIES

• Ongoing commitments

Colorado State University Board member of the Undergraduate Program Committee (UPC).

• Previous commitments

University of Siena Board member of the Ph.D. Program in Economics of the Tuscan Universities. Learning Designer: Teaching and Learning Center. Erasmus Coordinator for the Universities of Lisbon, Warsaw, and the Warsaw School of Information Technology. Board member of the Language Proficiency Assessment Committee: English curriculum. DEPS Faculty Website Delegate. Coordinator of the SOAS University of London & UNISI Cooperation Agreement.

Bucknell University Internal Evaluator: Fulbright Program.

SOCIETIES AND RESEARCH GROUPS

Dynamic Models in Economics and Finance Network. Structural Development Macroeconomics Research Group. Post-Keynesian Economics Society. Society for Economic Science with Heterogeneous Interacting Agents. International Society of Difference Equations.

CONFERENCE ORGANISER

1. **MACRO-HET Workshop. Sustainable Development: Structural Change and the Environment**. Siena, Italy, 2024.
2. **1st–4th Structuralist Development Macroeconomics International Workshop**. Brasilia, Brazil, 2021 – 2024.

RECENT CONFERENCE PRESENTATIONS

1. 14th Nonlinear Economic Dynamics Conference, Naples, Italy, 2025.
2. 51st EEA Annual Conference, New York, United States, 2025.
3. 8th ASTRIL Conference, Rome, Italy, 2025.
4. 65th Italian Economic Association Annual Meeting, Urbino, Italy, 2024.
5. 12th Dynamic Models in Economics and Finance Workshop, Urbino, Italy, 2024.

6. 48th AMASES Annual Meeting, Ischia, Italy, 2024.
7. 50th EEA Annual Conference, Boston, United States, 2024.
8. 7th ASTRIL Conference, Rome, Italy, 2024.
9. 47th AMASES Annual Meeting, Milan, Italy, 2023.
10. 2nd Workshop on Heterogeneity Evolution and Networks in Economics, Florence, Italy, 2023.

TEACHING RESPONSABILITIES

- **Ongoing commitments**

Colorado State University □ Money & Financial Institutions (300) □ Behavioural Economics (300) □ Alternative Approaches to Economics (700).

- **Previous commitments**

University of Siena □ Principles of Economics & Economic History (100) □ Principles of Mathematics (200) □ Behaviour & Experiments in Social Sciences (300).

Bucknell University □ 21st Century Challenges (200) □ Intermediate Macroeconomics (200) □ Money and Financial Institutions (300).

DOCTORAL THESIS: MAIN SUPERVISOR ONLY

- **Nandu Nair**

University of Siena
2022 – 2026*

UNDERGRADUATE FINAL PROJECT

Bayan Saribayeva (2025), Kseniia Krasikova (2025), Lonrezo Maggiorelli (2025), Maria Bari (2025).

LANGUAGES

- **Native/Bilingual:** Portuguese and Spanish

- **Proficient/Fluent:** English and Italian

SOFTWARES

- **Econometrics:** Eviews; Stata

- **Mathematics:** MATLAB; *Mathematica*; Scientific Workplace