

*Curriculum Vita*  
**JOILSON GIORNO**

**HOME ADDRESS**

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**UNIVERSITY ADDRESS**

Maringá State University  
PCE-Graduate Program in Economics  
Av. Colombo, 5790  
Maringá-PR, 87020-900, Brazil  
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**Citizenship and Language:**

Citizenship: Brazilian and Italian  
Language: Portuguese, English and Italian  
Understand very well Italian and Spanish

**Basic Skills:**

I am Expert in developing AIs in R for Credit Risk Analysis, Financial and insurance Markets with some knowledge of Python Machine Learning. I am Professor of Advanced Econometrics for PhD Program at Maringa State University ([www.uem.br](http://www.uem.br)). Lately I am teaching Applied AI to financial market for international graduate student (Italian and French).

**Work History:**

- CEO, PhDRisk – Artificial Intelligence Systems: 2020 – present.
- Senior Professor – Master and PhD Programs in Economics, UEM-Maringá State University, since: 2019 – present;
- Scientific Advisor for the Research Directory - Central Bank of Brazil - for yearly selection of best Working Papers, 2021-2023.
- Full Professor of Economics, Departamento of Economics, UEM-Maringá State University, 1994 - 2019, Maringa-PR, Brazil.
- Visiting Professor MBS-Montpellier Business School, Montpellier, France, 2024;
- Visiting Professor Università della Calabria, Itália, 2023;
- Visiting Professor Università della Calabria, Itália, 2021;
- Visiting Professor Università della Calabria, Itália, 2019;
- Lecturer, Harvard University, October 2016;
- Visiting Lecturer, Bryant University, October 2016;
- Visiting Professor, Osnabrück University of Applied Sciences, Osnabrück Germany, August 2015 – January 2016.
- Visiting Lecturer, Bryant University, Center for Global and Regional Economic Studies at Bryant University, Smithfield, RI, USA, November 2014.

- Visiting Professor, Osnabrück University of Applied Sciences, Osnabrück Germany, May 2013, Osnabrück, Germany.
- Visiting Scholar, University of South Carolina, Department of Economics, October 2001 – September 2003, Columbia, SC, USA.
- Visiting Scholar Universidade do Minho, Department of Economics, July-August 2002, Braga, Portugal.
- Director of Research and Projects, Institute for Regional Development (IDR), 1995 - 2001, Maringa-PR, Brazil.
- Teaching Associated, University of South Carolina, Campus Fort Jackson, 1991-1993, Columbia, SC, USA.
- Research Economist, South Carolina State Development Board, 1991-1992, Columbia, SC, USA
- Teaching Assistant, University of South, Campus Columbia, 1987-1991, Columbia, SC, USA.

### **Education**

Post-Graduate Research Studies, University of South Carolina, 2001 - 2003. Fields: Human Capital, Economic Growth and Applied Econometrics.

Ph.D. in Economics, University of South Carolina, SC, USA, 1992. Fields: Economic Growth and Development, International Economics and Econometrics. Dissertation: Economic Growth: The Quantum of Knowledge Theory.

Bachelor Degree, Economics, Universidade Estadual de Maringa, 1981, Maringa-PR, Brazil.

### **Awards and Fellowships:**

Fellow Researcher for the CNPq – Brazilian National Council for Scientific Research and Development – Fellowship Grant, 1996-2022.

Brazilian National Economic Award, 1997, Federal Council of Economists. Shared with Professor Maria Helena Ambrosio Dias.

Special Research Grants Awarded by the CNPQ - Brazilian National Council for Scientific Research and Development, 1995 – 2001, 2005 – 2008, 2009 - 2016.

Research Fellowship Grant for Post-Doctoral studies at University of South Carolina, 2001 – 2003 by the CNPq – Brazilian National Council for Scientific Research and Development.

Cathedral of IPEA-Instituto de Pesquisa Economica Aplicada, Federal Government Agency, 2011-2012.

### **Research Fields**

Artificial Intelligence: Machine Learning and Deep Learning

Applied Econometrics and AI-Artificial Intelligence  
Institutions and Development: Constitutional Principles  
Economic Growth and Development  
Theoretical and Applied Macroeconomics

### **Actual Research Projects**

Tebaldi, E. and Giorno, J. Reassessing the Linkages Among Entrepreneurship, Institutions and Growth. Working Paper Bryant University/UEM. Forthcoming RBE-Brazilian Review of Economics, 2024.

Giorno, J., Padovan, A., Tarosso, I. Is Monetary Policy Neutral in Relation to Stock Returns and/or Volatility? Accept in SBFIn XXIII Encontro de Finanças e ESTE-Escola de Séries Temporais e Econometria, 2023.

Tarosso, I., Giorno, J. Non Expected Monetary Policy Changes and Stock /Returns and Volatility in Brazil. PCE Working Papers, 2023.

Padovan, A., Giorno, J. International Stock Indexes Causality on B3: Copulas, Garch and Machine Learning Models, 2023.

Giorno, J. and Tebaldi, E. Entrepreneurs' Imperfect Knowledge on Institutional Changes and Long Run Economic Performance. Working Paper Bryant/UEM, 2022. Research Grant n. 305036/2014-9 from Brazilian National Council for Research and Development, CNPq.

Vidigal, C. B. and Giorno, J. The Inclusive Education Program in Brazil: The Policy for Multi-Function Classroom. Research Grant n. 167492/2017-9 from Brazilian National Council for Research and Development, CNPq.

Giorno, J. Human Capital and Increasing Returns to Education Investment: A New Proposed Microfoundation of Long Run Economic Growth. Research Grant n. 300943/2018-0 from Brazilian National Council for Research and Development, CNPq.

### **Most Recent Papers:**

RUSSO, L. X., SCOTT, A., SIVEY, P. and DIAS, J. Primary care physicians and infant mortality in Brazil: Evidence from Brazil. **PLoS ONE** 14(5), 2019.

DIAS, J., ANDRADE, L. C. M. Crédito Ideal: AIs. **LIFT PAPERS** , v. 1, p. 41, 2019.

BONDENZAN, K. L. and DIAS, J. Economic growth in Brazil Physical Capital Accumulation and Institutions at Regional Level. *Revista Econômica do Nordeste.* , v.48, p.47 - 62, 2018.

PIANA, P. A., CARDOSO, B. F., DIAS, J., GOMES, L. C., AGOSTINHO, A. A. and MIRANDA, L.E. Using long-term data to predict fish

abundance: the case of *Prochilodus lineatus* (Characiformes, Prochilodontidae) in the intensely regulated upper Paraná River. *Neotropical Ichthyology*, v.15, p.160029-1 - 160029-12, 2017.

RUSSO, L. X.; DIAS, J. The Health Influence on Returns to Education in Brazil: A Nonlinear Approach. *Economia (Brasília)*, v. 17, p. 210-220, 2016.

DIAS, J. Human Capital Demand in Brazil: The Effects of Adjustment Cost, Economic Growth, Exports and Imports. *Economia (Brasília)*, v. 16, p. 76-92, 2015.

DIAS, J., SCHUMACHER, F. I. and TEBALDI, E. . Geographic and Sector Externalities from Highly Qualified Human Capital: The Importance of the Business Service Sector. *Applied Economics Letters (Print)*<sup>JCR</sup>, v. 21, p. 329-334, 2014.

SCHUMACHER, F. I., DIAS, J. and TEBALDI, E. Two tales on human capital and knowledge spillovers: the case of the US and Brazil. *Applied Economics (Print)*<sup>JCR</sup>, v. 46, p. 1-11, 2014.

DIAS, M. H. A., DIAS, J. and HIRATA, J. . Foreign Direct Investment in Brazil: The Effects of Productivity and Aggregate Consumption. *Journal of Stock, Forex & Trading*, v. 3, p. 127-132, 2014.

TEIXEIRA, A. M., DIAS, M. H. A. And DIAS, J. . New Macroeconomic Consensus and Inflation Targeting: Monetary Policy Committee Directors' Turnover in Brazil. *Economia (Brasília)*, v. 14, p. 158-170, 2013.

DIAS, M. H. A. and DIAS, J. and DIAS, J. Macroeconomic policy transmission and international interdependence: a SVAR application to Brazil and US. *Economia (Brasília)*, v. 14, p. 27-45, 2013.

DIAS, J. and TEBALDI, E. . Institutions, Human capital, and Growth: The Institutional Mechanism. *Structural Change and Economic Dynamics*, 23:300-312, 2012.

DIAS, M. H. A. and DIAS, J. . Measuring the Cyclical Component of a Time Series: A New Proposed Methodology. *Brazilian Review of Econometrics*, 30(1):90-122, 2010.

DIAS J. and MCDERMOTT, J. Education, Institutions, and Growth: The Role of Entrepreneurs. *Journal of Economic Development*, 80(1):299-328, 2006.

### **International Book Chapters:**

DIAS, J. Can Human Capital Alone Close the Brazil-US Income Gap? Expected Contributions of Human Capital to Economic Development in Brazil and the US. In *Human Capital Perspectives and Challenges*, Nova Science Publisher, NY, 2018.

DIAS, J. and MCDERMOTT, J. . Aggregate Threshold Effects in the Generation of Human Capital: The Cases of Latin America and Europe. In: Lionello F. Punzo; Carmem Aparecida Feijo; Martin Puchet Anyul. (Org.). *Beyond the Global Crisis: Structural Adjustments and Regional Integration in Europe and Latin America*. London: Routledge, 2012, v. , p. 67-78.

DIAS, M. A., DIAS, J. and Punzo, L.F. International interdependence and macroeconomic transmission: Europe and Latin America. In: Lionello F. Punzo; Carmem

Aparecida Feijo; Martin Puchet Anyul. (Org.). *Beyond the Global Crisis: Structural Adjustments and Regional Integration in Europe and Latin America*. London: Routledge, 2012, v. , p. 79-90.

### **Most Recent Book**

GIORNO, J. As Novas Gerações e a Busca pela Democracia do Futuro: Constituição do Futuro (Constituição do Futuro Livro 1) (Portuguese Edition), kindle edition, 2020.

DIAS, J. Proposta de uma Constituição do Futuro: Novos Princípios de Igualdade Perante as Leis e de Democracia. CRV, Curitiba-PR, Brazil, 2017.

### **Teaching Experience**

Graduate Program in Economics:

Disciplines: Time Series: Artificial Intelligence and Econometrics-2019-present

Disciplines 1994 - 2019: Advanced Econometric Theory, AI and Applied Econometrics, Macroeconomics and Economic Growth;

Undergraduate Program in Economics:

Disciplines: 1994 – 2019: Economic Growth and Macroeconomics