

**Rui Manuel Marvao Pereira**  
**Curriculum Vitae**  
**January 30, 2023**

Department of Economics  
College of William and Mary  
P.O. Box 8795  
Williamsburg, VA 23187-8795

Office: Chancellor's Hall 337  
Phone: 757.221.2431  
Fax: 757.221.1175  
E-mail: rmpereira@wm.edu

## **EDUCATION**

Ph.D. in Economics, University of the Algarve, 2011  
Thesis: "Essays in Energy and Climate Policy: A Dynamic General Equilibrium Analysis"  
Master of Science in Computer Science, Computational Operations Research.  
The College of William and Mary, 2010  
Master of Public Policy. Thomas Jefferson Program in Public Policy  
The College of William and Mary, 2010  
Master of Science in Environmental Management and Policy  
New University of Lisbon, School of Science and Technology, 2007  
Bachelor of Arts  
University of Virginia, 2004

---

## **ACADEMIC POSITIONS**

The College of William and Mary, Williamsburg, Virginia USA  
*Senior Lecturer*, Department of Economics  
*Lecturer*, Department of Economics  
*Visiting Assistant Professor*, Department of Economics,  
*Adjunct Professor*, Department of Economics,  
Fall 2020 – Present  
Fall 2017 – Summer 2020  
Fall 2011 – Summer 2017  
Fall 2011 – Summer 2012

## **TEACHING EXPERIENCE**

*Lead Instructor* [College of William and Mary]:

Principles of Macroeconomics  
Principles of Microeconomics  
Intermediate Microeconomics  
Advanced Microeconomics  
Principles and Methods of Statistics  
Econometrics  
Environmental and Resource Economic  
Economics of the Public Sector  
Government Regulation of Markets  
Computable General Equilibrium  
Energy Economics  
Quantitative Methods I [master's level course]  
Quantitative Methods II [master's level course]  
Microeconomics for Public Policy Analysis [master's level course]  
Macroeconomics for Public Policy Analysis [master's level course]  
Benefit Cost Analysis for Public Policy [master's level course]

*Faculty Advisor for Student Research* [College of William and Mary]:

Faculty Advisor for master's level policy research project  
Faculty Advisor for Departmental Honors in Economics in the field of Macro and in Energy Economics  
Independent Studies Supervision in the fields of Applied Economics, Energy and Environmental Economics,  
Labor Economics, Time Series Econometrics, Sports Economics.

---

## APPLIED POLICY ANALYSIS AND RESEARCH EXPERIENCE

Ministry of the Economy, Portugal, January 2021 – December 2022.  
EDP – Electricidade de Portugal, October 2016 – December 2018.  
Ministry of the Economy, Portugal, January – December 2018.  
EDP – Electricidade de Portugal, October 2016 – October 2017.  
Fundação Francisco Manuel dos Santos, May 2011 – March 2016  
Portuguese Commission for Environmental Fiscal Reform, May – Sept 2014  
Virginia Employment Commission, June – August 2013  
Deloitte – Canada, July – Sept 2013.  
Portuguese Ministry of Science and Technology Research Grant, Portugal, Oct. 2007 – May 2011  
Old Dominion University Research Foundation, Norfolk, Virginia, Aug 2009 – May 2010

## RESEARCH PUBLICATIONS

### 2023

43. “Energy Taxation Reform with an Environmental Focus” (with Alfredo Pereira) *Energies*, forthcoming

### 2022

42. “On the Choice of the Regional Location of Infrastructure Investments in Portugal” (with Alfredo Pereira). *Journal of International Business and Economics*, forthcoming, 2022.
41. “Formation and Transformation of the Cuban Electric Company/Union Electrica, 1920s-1980s” (with William Hausman and John Neufeld) 2022. Book Chapter. *Electrical Conquest: New Approaches to the History of Electrification*. Springer Nature Switzerland AG.

### 2021

40. “Infrastructure Investment and Employment: Evidence or Portugal” (with Alfredo Pereira and Pedro Rodrigues). *Journal of Infrastructure Policy and Development*, Vol 5 (2).
39. “On the Spillover Effects of CO2 Taxation on the Emissions of other Air Pollutants” (with Alfredo Pereira). *Journal of Economics and Public Finance*, Vol 7 (3).
38. “Regulated Early Closures of Coal-Fired Power Plants and Tougher Energy Taxation on Electricity Production: Synergy or Rivalry?” (with Alfredo Pereira). *Economic Globalization and Governance: Essays in Honor of Jorge Braga de Macedo*, L. B. Pereira, M. E. Mata, and M. R. de Sousa (Eds.), Springer-Verlag, pp. 241-260.
37. “Picking Our Environmental Battles: Removal of Harmful Subsidies or Carbon Taxation?” (with Alfredo Pereira) *Journal of Economics and Public Finance*, Vol 7 (2). Online.
36. “On the Macroeconomic and Distributional Effects of the Regulated Closure of Coal-Operated Power Plants” (with Alfredo Pereira) *Journal of Economic Development*, Vol 46 (4),
35. “Financing Future Feed-in Tariffs from Currently Installed RES-E Generating Capacity” (with Alfredo Pereira) *Archives of Business Research* Vol 9(2), pp. 193-209.

### 2020

34. “How Does Infrastructure Investment Affect Macroeconomic Performance? Evidence from Portugal,” (with Alfredo Pereira). *Journal of Infrastructure Development*, Vol 11 (1-2), pp. 14-40.
33. “Infrastructure Investment, Labor Productivity and International Competitiveness: The Case of Portugal” (with Alfredo Pereira). *Journal of Economic Development*, Vol 45(2), pp. 1-29.
32. “Infrastructure Investments in Portugal and the Traded/Non-Traded Industry Mix” (with Alfredo Pereira). *Journal of Infrastructure Policy and Development*, Vol. 4(1), pp. 1-26.
31. “From Whom the Bells Toll: The Effects of Tolls on Uncrowded Roadways on Road Safety” (with Alfredo Pereira and J. P. Santos). *Journal of Infrastructure Policy and Development*, forthcoming, Vol 4 (2). PP. 287-305e.

## 2019

30. "On the Effects of Infrastructure Investments on Industrial CO2 Emissions," (with Alfredo Pereira). *Journal of Economics and Public Finance*, Vol 5(1), pp.47-69
29. "Achieving the Triple Dividend in Portugal: A Dynamic General-Equilibrium Evaluation of a Carbon Tax Indexed to Emissions Trading," (with Alfredo Pereira). *Journal of Economic Policy Reform*, 22:2, pp. 148-163.
28. "Financing a Renewable Energy Feed-in Tariff with a Tax on Carbon Dioxide Emissions: A Dynamic Multi-Sector General Equilibrium Analysis for Portugal" (with Alfredo Pereira). *Green Finance*, 1(3) pp. 279-296.
27. "On the Effects of Infrastructure Investments on the Regional Economic Mix in Portugal" (with Alfredo Pereira). *Journal of Economics and Public Finance* Vol 5(3), pp. 375-403.
26. "Health Care Investments and Economic Performance in Portugal: An Industry Level Analysis. (with Alfredo Pereira and Pedro Rodrigues). *Journal of Economic Studies* Vol 46(6), pp. 1174-1200.

## 2018

25. "Are all Infrastructure Investments Created Equal? The Case of Portugal," (with Alfredo Pereira). *Journal of Infrastructure, Policy and Development*, Vol 2(1), pp, 67-86.
24. "A Lower VAT Rate on Electricity in Portugal: Towards a Cleaner Environment, Better Economic Performance, and Less Inequality," (with Alfredo Pereira). *Energy Policy*, 117 (C), p. 1-13.
23. "On the Effects of Infrastructure Investment on Economic Performance in Ontario" (with Alfredo Pereira). *Journal of Infrastructure, Policy and Development*, forthcoming.
22. "Health Care Investments and Economic Performance in Portugal: An Industry Level Analysis. (with Alfredo Pereira and Pedro Rodrigues), *Journal of Economic Studies*, forthcoming.
21. "On the Effects of Infrastructure Investments on Industrial CO2 Emissions," (with Alfredo Pereira) *Journal of Economics and Public Finance*. Forthcoming.

## 2017

20. "On the Relative Roles of Fossil Fuel Prices, Energy Efficiency, and Carbon Taxation in Reducing Carbon Dioxide Emission: The Case of Portugal" (with Alfredo Pereira). *Journal of Environmental Planning and Management*, Vol 60 (10), pp. 1825-1852
19. "The Economic and Budgetary Impact of Climate Policy in Portugal: Carbon Taxation in a Dynamic General Equilibrium Model with Endogenous Public Sector Behavior", (with Alfredo Pereira) *Environmental and Resource Economics* 67, pp. 231-257.
18. "On the Effects of an Increase in the VAT on Electricity in Portugal," (with Alfredo Pereira). *International Conference on Energy and Environment 2017 – Conference Proceedings*, pp. 364-369.
17. "Identifying Priorities in Infrastructure Investment in Portugal," (with Alfredo Pereira). *Journal of Economics and Public Finance* 3(3), pp. 367-392.
16. "Railroad Investments and Economic Development in the Antebellum United States" (with Will Hausman and Alfredo Pereira). *Journal of Economic Development* 42(3), pp. 1-16.
15. "Carbon Taxation: Optimal Recycling Mix and Labor Market Conditions" (with Alfredo Pereira). *Journal of Economics and Public Finance* 3(4), pp. 481-506.
14. "Achieving the Triple Dividend in Portugal: A Dynamic General-Equilibrium Evaluation of a Carbon Tax Indexed to Emissions Trading," (with Alfredo Pereira). *Journal of Economic Policy Reform*, forthcoming. Published online July 2017.

## 2016

13. "Marginal Abatement Cost Curves and the Budgetary Impact of CO2 Taxation in Portugal," (with A Pereira) *Environmental and Resource Economics*, forthcoming, available online.
12. "A New Carbon Tax in Portugal: A Missed Opportunity to Achieve the Triple Dividend?" (with A Pereira and Pedro Rodrigues) *Energy Policy* 93, pp. 110-118.
11. "On the Relative Roles of Fossil Fuel Prices, Energy Efficiency, and Carbon Taxation in Reducing Carbon Dioxide Emission: The Case of Portugal" (with A Pereira). *Journal of Environmental Planning and Management*, forthcoming.

## 2015

10. "On the Long Term Impact of a Fiscal Devaluation: An Application to the Portuguese Case," (with A Pereira and Pedro Rodrigues).  
Chapter 6 in *Fiscal Policies: International Aspects, Short and Long Term Challenges, and Macroeconomic Effects* Amo-Yartley (Ed.). Nova Publishers.

## 2014

9. "Integrated technological-economic modeling platform for energy and climate policy analysis," (with A. Pereira, P. Fortes, and J. Seixas)  
*Energy*, Volume 73, pages 716-73, August.
8. "Okun's law, asymmetries and regional spillovers: evidence from Virginia metropolitan statistical areas and the District of Columbia,"  
*The Annals of Regional Science*, vol. 52(2), pages 583-595, March.
7. "Environmental Fiscal Reform and Fiscal Consolidation: The Quest for the Third Dividend in Portugal," (with A. Pereira)  
*Public Finance Review*, vol. 42(2), pages 222-253, March.
6. "On the environmental, economic and budgetary impacts of fossil fuel prices: A dynamic general equilibrium analysis of the Portuguese case," (with A. Pereira).  
*Energy Economics*, vol. 42(C), pages 248-261, March

## 2013

5. "Fossil fuel prices and the economic and budgetary challenges of a small energy-importing economy: the case of Portugal," (with A. Pereira)  
*Portuguese Economic Journal*, vol. 12(3), pages 181-214, December.

## 2010

4. "On the Potential Economic Costs of Cutting Carbon Dioxide Emissions in Portugal," (with A. Pereira)  
*Portuguese Economic Journal*, 9, pages 211-222, December.
3. "Is Fuel-Switching a No-Regrets Environmental Policy? VAR Evidence on Carbon Dioxide Emissions, Energy Consumption, and Economic Performance in Portugal," (with A. Pereira)  
*Energy Economics*, Vol. 32:1, 2010, pp. 227-242, January.
2. "Office Space Allocation Optimization," (with K. Cummiskey and R. Kincaid)  
*Proceedings of the Systems and Information Engineering Design Symposium, 2010*. pp. 112-117.  
Digital Object Identifier : 10.1109/SIEDS.2010.5469670

## 2008

1. "Controlling the Public Wage Bill in Portugal: The Case of University Professors." (with A. Pereira)  
*Applied Economics Letters*, 13, 2008, pp. 997-1000.

## WORKING PAPERS – REFERENCE WORK

1. "GAMS Implementation and Excel Interface for Soft Link of the GEM-E3\_PT to TIMES\_PT Models," (with A. Pereira)  
Working Paper 125. Department of Economics, College of William and Mary. 2012
2. "DGEP - A Dynamic General Equilibrium Model of the Portuguese Economy: Model Documentation," (with A. Pereira)  
Working Paper 127, Department of Economics, College of William and Mary 2012

## Papers under revision with resubmission requested by journal editors

- "On the Spillover Effects of CO<sub>2</sub> Taxation on the Emissions of other Air Pollutants" (with A Pereira)
- "Energy Taxation Reform with an Environmental Focus" (with A Pereira)

## Working Papers - Work in Progress

- "On the Contribution of Electrification for the Decarbonization of the Portuguese Economy" (with A Pereira).

- “Carbon Taxation in Portugal: New opportunities and Challenges” (with A Pereira)
- “Infrastructure Investment and Employment in Portugal: Towards COVID economic recovery?” (with A Pereira and P Rodrigues).

## REFEREEING

Annals of Regional Science  
 Journal of Applied Econometrics  
 Economics Bulletin  
 Energies  
 Sustainability  
 Utilities Policy

## CONFERENCE AND SEMINAR PARTICIPATION

- 3rd meeting of the Portuguese Economic Journal. June 26-28, 2009 in Funchal, Portugal.
- Systems and Information Engineering Design Symposium, April 30, 2010. Charlottesville, VA.
- 1st research workshop of the Center for Advanced Studies in Economics and Economics of the Universidade do Algarve. July 22, 2009 in Faro, Portugal.
- 3rd research workshop of the Center for Advanced Studies in Economics and Economics of the Universidade do Algarve. March 11, 2010 in Faro, Portugal.
- 4th research workshop of the Center for Advanced Studies in Economics and Economics of the Universidade do Algarve. June 21, 2010 in Faro, Portugal.
- Deminar for A Unidade de Investigação da UA Governança, Competitividade e Políticas Públicas (GOVCOPP) of the Universidade de Aveiro. June 23, 2010 in Aveiro, Portugal.
- 4th meeting of the Portuguese Economic Journal. June 25-26, 2010 in Faro, Portugal.
- 16th Congress of the Associação Portuguesa para o Desenvolvimento Regional (APDR). July 5-10, 2010 in Funchal, Portugal.
- the College of William and Mary Department of Economics Seminar Series. October 4, 2010 in Williamsburg, Virginia.
- 70th Conference of the International Atlantic Economics Society. October 12-14, 2010 in Charleston, South Carolina.
- Discussant at the 70th Conference of the International Atlantic Economics Society. October 12-14, 2010 in Charleston, South Carolina.
- 5th research workshop of the Center for Advanced Studies in Economics and Economics of the Universidade do Algarve. November 23, 2010 in Faro, Portugal.
- Instituto Politecnico de Viseu, November 25, 2010 in Viseu, Portugal.
- Workshop Energia e Economia Portuguesa, Instituto Superior de Ciencias Sociais e Politicas, Universidade Tecnica de Lisboa, November 26, 2010 in Lisbon, Portugal.
- CENSE International Workshop on Energy, Economy, and Environment Modeling, October 12, 2012, Gulbenkian Foundation, in Lisbon, Portugal.

## COMPUTATIONAL SKILLS

<b>Statistical software:</b>	SPSS, STATA, MINITAB, EViews, RATS, R/S-Plus.
<b>Numerical and optimization software:</b>	GAMS, AMPL, MATLAB.
<b>Simulation software:</b>	ARENA/SIMAN.
<b>High-level programming:</b>	C-programming.

## LANGUAGE SKILLS

**English** – Native Speaker; **Portuguese** – fluent; **Spanish** – Basic;