

PERSONAL INFORMATION

Rita Sousa



+351 253 601 383

ritasousa@eeg.uminho.pt
www.ritasousa.pt

Sex Female | Date of birth 25/01/1978 | Nationality Portuguese

WORK EXPERIENCE

February 2015 - Ongoing

Expert Evaluator

European Innovation Council and SME Executive Agency (2021-...)
 INEA / Innovation and Networks Executive Agency – European Commission (2020)
 Research Executive Agency – European Commission (2015-2020)
 Place Rogier 16, B-1049 Brussels, Belgium
 Expert evaluator for the European Innovation Council.

Field: Funding body for research and innovation. EU research grants management.

January 2007-Ongoing

Assistant Professor (2014-ongoing) with tenure; Visiting Professor (2007-2014)

School of Economics and Management, University of Minho, Portugal

Professor at the Department of Economics. Full member and researcher of the Economic Policies Research Unit. Responsible for consultancy projects in the areas of climate change policies, energy and macroeconomics issues.

Main climate change adaptation projects:

#1 CLICTOUR - Climate change resilient tourism in protected areas of Northern Portugal - 2021-2023. Coordinator. Funded by Scientific and Technological Research Support System "Structured Projects of R&D&I", Norte 2020, by CCDRN. In partnership with the Institute for Nature Conservation and Forests (Peneda-Gerês, Alvão and North Coast Parks).

#2 CoaClimateRisk - Climate change impact assessment and adaptation measures for the main crops in the Coa Valley region - 2020-2022. Researcher. FCT grant project. Involved in the economic impacts on the main crops, and adaptation measures, on case studies and a ranking system.

#3 ECO.Fire - The economic value of forest fires as support for prevention behavior - 2020-2021 - Co-Coordinator for a FCT grant project. Involves modelling of the economic evaluation of forest fires impacts, involving local population, to support forestry planning and fire prevention.

#4 Intermunicipal Plan for Climate Change Adaptation at the Alto Tâmega Region - 2020-2021. Climate change adaptation and economics expert. Includes the development of a socio-economic analysis of the region up to 2050. Project by the Intermunicipal Community, coordinated by Ecovisão.

#5 Intermunicipal Plan for Climate Change Adaptation at the Tâmega and Sousa Region - 2017-2019. Climate change adaptation and economics expert. Includes the development of a socio-economic analysis of the region and scenario development up to 2050. Project by the Intermunicipal Community, coordinated by the Institute for Agricultural Development of the North Region of Portugal.

Main climate change mitigation projects:

#1 Azambuja 0C – 2020, in Portugal – Development of socioeconomic scenarios for the baseline study for the development of Azambuja's Carbon Neutrality Roadmap for 2050, for Get2C.

#2 Príncipe 0C – 2020-ongoing, in Portugal/Sao Tome and Principe – Development of socioeconomic scenarios for the roadmap for carbon sustainability on Príncipe island, to Efrican Foundation.

#3 PMR Colombia Part II - Advisory services to support CGE-based assessment of carbon pricing policies – 2020-ongoing, in Colombia/Portugal - World Bank consultancy, as lead expert. Support to the review of MEG4C, Colombia's dynamic computable general equilibrium model aimed at enhancing its capability to perform analysis of updated carbon pricing scenarios in Colombia, with Get2C.

#4 International Trade in Renewable Energy with Cooperation Mechanisms: A CGE Analysis - 2015-ongoing. Principal Investigator, with co-investigator from the Public University of Navarre - Department of Economics, Spain. Includes the development of a static, multi-regional, CGE, for a European linkage of electricity from renewable sources.

#5 Revision of Mozambique's Nationally Determined Contribution - Implementation Plan in the Sectors of Agriculture, Water, Energy, Early Warning Systems and Transport - 2018-2019. In Mozambique/Portugal, for CAOS, under a World Bank project, as mitigation expert and coordinator.

Development of scenarios and analysis of measures. Design of a NAMA registry application for the Environment Ministry of Mozambique.

#6 Portugal's Roadmap for Carbon Neutrality 2050 - 2017-2019. Team coordinator at the University of Minho. Includes the expert advising in the development of macroeconomic scenarios for 2050 to the project coordinator Get2C. Project by the Portuguese State financed by the Environmental Fund.

#7 PMR Colombia - Macro-economic assessment of price-based instruments to implement national emissions reductions targets in Colombia - 2016-2017, in Colombia/Portugal, for Get2C - World Bank project, as lead modelling expert. Adaptation of MEG4C, Colombia's dynamic computable general equilibrium model to include a carbon market and taxes.

#8 R3E in Euros - 2016-2017. Project for Amb3E, as principal investigator. Data gathering and econometric model development to explain the connection between European EEE fees and countries' income per capita, and efficiency of the WEEE management process.

#9 Economic study for the development of low-carbon options for Cape Verde, Mozambique and Sao Tome and Principe - 2014-2016, in Mozambique/Portugal, for CAOS, as consultant/lead expert. Supporting the validation of low carbon scenarios in a study on the feasibility of opportunities for low carbon development, with bottom-up modelling of energy scenarios. Support to the drafting of the first version of the INDC in the provision of services to CAOS to the Ministry of Environment of Mozambique.

#10 Waste Roadmap in Cape Verde, and **#9 Bioenergy at Sao Tome and Principe** - 2015-2017, in Portugal/Cape Verde/Sao Tome and Principe, for Ecovisão, as carbon expert. Projects proponents include the Directorate of Environment from Cape Verde and Sao Tome and Principe. Includes the initial co-design of the projects, evaluation of GHG emissions, and local training in waste and climate change.

Field: Higher education and research.

September 2004 – October 2020

President (2014-2020), Director (2006-2013), Economist (2004-2005)

Euronatura - Centre for Environmental Law and Sustainable Development, Lisboa, Portugal

Development and management of environment and climate change related projects, featuring:

- **EU CO2 80/50**

Supervision of advisory work to the Metropolitan Area of Porto – METREX project, including regional GHG inventory and mitigation scenario (2020 and 2050) workshops, with Manchester University.

- **Ambicities**

Author of the project. Aims to promote a redirection of the way of life in cities towards climate change mitigation. Includes the analysis of 16 municipalities of the Metropolitan Area of Porto, in Portugal.

- **Climate and Development at Santarém Municipality**

Coordination and elaboration of the municipality's participation in the Covenant of Mayors, including the making of the GHG inventory and the proposal of climate change mitigation measures.

Field: Environmental NGO

September 2008 – August 2010

Executive Director

Smartwatt SA, Porto, Portugal

- Conception and management of the Climate and Sustainability Department.

- Responsible for carbon markets and sustainability strategies, including client account and project management. Climate projects include the revision of the national mitigation strategy of Angola.

Field: Energy consultancy company

September 2005 – August 2008

Researcher

INESC TEC – Power Systems Unit, Porto, Portugal

Scholarship of the Foundation for Science and Technology of Portugal, working at the MILES Project «The impact of the Iberian electricity market in companies' profits and supply security: a simulation analysis» (POCI/EGE/61555/2004), including GAMS simulation for CO₂ impacts.

Field: Research associated laboratory, energy services.

March – December 2007

Economist

Ecoprogresso – Consultores em Ambiente e Desenvolvimento, S.A., Lisboa, Portugal

Co-coordination of the EU Negotiations team «Expert Group on Kyoto Protocol Mechanisms» for the Portuguese Delegation to the UNFCCC. Work in carbon issues – inventories and finance, including review of "Portugal Report According to Article 3(2). 2007"

Field: Environmental consultancy: climate change, energy and carbon management.

September 2001 – August 2002

Junior Economist

EDP SA, Porto, Portugal

Investment analysis for power plants projects (wind, biomass and wave power plants). Participation in PGETS a carbon market simulation in Portugal.

Field: Power utility, energy generation and services.

January – August 2001

Economist

National Park Peneda-Gerês, Braga, Portugal

Participation in projects: «Strategic Restructuring Plan of Gerês Valley», «Doors» and «Planning and Management of Tourism in the NPPG».

Field: Nature conservation, National Park.

PUBLISHED SCIENTIFIC WORK

Gonçalves, C., Honrado, J. P., Cerejeira, J., Sousa, R., Fernandes, P. M., Vaz, A. S., . . . Santos, J. A. (2021). [On the development of a regional climate change adaptation plan: Integrating model-assisted projections and stakeholders' perceptions](#). *Science of the Total Environment*, 150320. *Forthcoming*

Sousa, R., Álvarez-Espinosa, A. C., Pardo, N. R., Leon, S. F. M., Otalora, G. R., Diaz, S. C., Vazão, C., Barata, P. M. & Salcedo, L. R. (2020). [Emissions trading in the development model of Colombia](#). *Climate Policy* 20 (9), 1161-1174.

Aguiar-Conraria, L., Joana Soares, M., & Sousa, R. (2018). [California's carbon market and energy prices: a wavelet analysis](#). *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 376 (2126).

Sousa, R., Agante, E., Cerejeira, J., & Portela, M. (2018). [EEE fees and the WEEE system – A model of efficiency and income in European countries](#). *Waste Management*, 79C, 770-780.

Sousa, R., & Aguiar-Conraria, L. (2015). [Energy and carbon prices: a comparison of interactions in the European Union Emissions Trading Scheme and the Western Climate Initiative market](#). *Carbon Management*, 6 (3-4), 129-140.

Sousa, R., Aguiar-Conraria, L., & Soares, M. J. (2014). [Carbon financial markets: A time–frequency analysis of CO2 prices](#). *Physica A: Statistical Mechanics and its Applications*, 414, 118-127.

TEACHING EXPERIENCE

January 2007-Ongoing

Assistant Professor (2014-ongoing); Visiting Assistant Professor (2007-2014)

University of Minho - School of Economics and Management, Department of Economics

Campus de Gualtar, 4710 - 057 Braga, Portugal

Main courses:

.Energy Economics (since 2015) B.Sc. and M.Sc.

.Economics and Environment (since 2014) B.Sc. and M.Sc.

.Macroeconomics (since 2017) B.Sc.

.Public Finance (since 2014) B.Sc.

September 2008 – August 2013

Visiting Assistant Professor

University of Porto - Engineering Faculty

Rua Dr. Roberto Frias, s/n, 4200-465 Porto

At the MIT Doctoral Program of “Sustainable Energy Systems” in subjects:

.Introduction to Economics (11-12 and 12-13) Ph.D.

.Econometrics (10-11 and 11-12) Ph.D.

.Energy Economics (09-10) Ph.D.

.Economics of Natural Resources and Environment (08-09) Ph.D.

EDUCATION AND TRAINING

- 2014 **Ph.D.**
New University of Lisbon, Faculty of Science and Technology, Portugal
 - Climate Change and Sustainable Development Policies. Thesis “ Carbon Prices - Dynamic analysis of European and Californian markets”
- 2002 **M.Sc.**
Technical University of Lisbon, Superior Institute of Economics and Management, Portugal
 - Economics and Politics of Energy and Environment
- 1999 **Graduate Degree**
University of Minho, Portugal
 - Economics

OTHER TRAINING

- 2016 **12th Ruhr Graduate Summer School in Economics:**
University of Duisburg-Essen, Germany
 - Trade and Climate Policy Analysis with GAMS and MPSGE
- 2009 **10th FLAD Summer Institute**
Luso American Development Foundation, Portugal
 - Global Environmental Studies
- 2009 **Bergen Summer Research School**
Bergen University, Norway
 - Climate, Environment and Energy.

PERSONAL SKILLS

Mother tongue(s) Portuguese

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficiency user	Proficiency user	Proficiency user	Proficiency user	Proficiency user
Spanish	Independent user	Independent user	Independent user	Independent user	Independent user
French	Independent user	Independent user	Basic user	Basic user	Basic user

Communication skills Excellent communication capacities and team spirit; very good ability to work in multicultural environments. Problem solver and leader features. All gained through experience in fund raising, high-level class teaching, project development and speaking in several conferences and media.

Organisational / managerial skills Excellent team management capacity both in the private and public sectors. Won “15th best Portuguese company to work” prize by a recognized national management magazine, as director of Smartwatt.

Job-related skills

- Expert in economic development scenarios, low carbon development scenarios, mitigation and adaptation measures, and carbon pricing mechanisms.
- Member of the European Association of Environmental and Resource Economists (EAERE)
- Solid skills in modelling and optimization software: CGE in GAMS; LEAP; statistics and econometrics software.