

CURRICULUM VITAE

Ana Cristina Caldeira da Silva Gouveia Carvalho

ACADEMIC QUALIFICATIONS:

- 2006: PhD on Sciences Applied to the Environment. Thesis title: The Air Quality and Climate Changes over Portugal. February 2006. University of Aveiro, Portugal.
- 2004: Four years Degree on Meteorology and Oceanography Physics, by the University of Aveiro, Portugal, 2004 (pre-Bologna).
- 1994: Five years Degree on Environmental Engineering, by the University of Aveiro, Portugal, on 1994 (pre-Bologna). Including a full scholar year as Erasmus Student in Santiago de Compostela, Spain (1993/1994)

SCIENTIFIC PROFESSIONAL PROFILE:

- Jun2015 - Colaborator member of CESAM, University of Aveiro, Portugal at 5% time.
- Oct 2014 - May 2015. Colaborator member of CESAM, University of Aveiro, Portugal. Assuring the execution of the project High-resolution Rainfall EroSivity analysis and fORecasTing - RESORT. Ref^a PTDC/CTE-ATM/111508/2009.
- Jul 2014 - Sep 2014. Invited Research grant on the project High-resolution Rainfall EroSivity analysis and fORecasTing - RESORT. Ref^a PTDC/CTE-ATM/111508/2009.
- Jul 2009 - Jun 2014. Assistant Researcher, Center for Environmental and Sustainability Research - CENSE. FCT/UNL, Caparica, Portugal.
- Feb 2008 - Jun 2009: Pos-Doc at the Department of Physics, University of Aveiro, Portugal (Ensemble meteorological model in atmospheric-soil interactions, as major scientific topic).
- Set 2006 - Aug 2007. Pos-Doc at the Laboratoire de Météorologie Dynamique, École polytechnique, Paris, France (Evaluation de l'incertitude de la prévision de la qualité de l'air par méthodes d'ensembles utilisant les modèles ARPEGE et CHIMERE).
- Jun 2004 - 2006. Research grant within the European AIR4U project (<http://www.air4eu.nl/>).

- Jun 2000 - 2004. PhD grant by the Portuguese Foundation for Science and Technology (Ref^a: BD/21474/99)
- Mar 2000 - May 2000: Research assistant, founding by a grant of the Coastal Zones and Marine Research Centre Research Unit of the University of Aveiro.
- Nov 1999 - Feb 2000: PhD grant of the University of Aveiro
- 1996 - 1999: Research grant of the Foundation of Science and Technology (GGP XXI/BIC 3553/96), in the aim of the project Global Climate Change impacts on the atmospheric environment of the Northern Atlantic and Iberian Peninsula (Ref^a PRAXIS /3/3.2/EMG/1949/95);
- 1995-1996: PRAXIS XXI Junior Research Grant (BJI 1831), included in the project "Characterization of the local wildfire risk over a region" (Ref^a: PEAM/FF/427/94).

PEDAGOGIC ACTIVITIES:

- 2009-2010: Mesoscale Meteorology - as collaborator of the University of Aveiro (Department of Physics).
- 2008-2009: Guest Assistant Professor on Wastewater and Water Supply - *Abastecimento de Águas e Saneamento* (Environmental and Planning Department, University of Aveiro).
- 2008: Guest Assistant Professor on Macroscopic Thermodynamics (Environmental and Planning Department, University of Aveiro).
- 1998. Collaboration on the edition and revision of the didactic text book "Fenómenos de Transferência" (Fluid Dynamics), 1998, (275 pg).
- 1995, 1996 e 1997 - Trainee Assistant of the discipline Fluid Mechanics (Department of Environment and Planning, University of Aveiro).
- 1992 - Trainee Assistant of the discipline Atmospheric Pollution II (topics on atmospheric chemistry. Department of Environment and Planning, University of Aveiro).

PARTICIPATION IN PORTUGUESE FUNDED SCIENTIFIC PROJECTS

As principal investigator

- Total column and surface ozone variability over the Iberian Peninsula: Dynamical and Chemical atmospheric factors - DYNOWZONE. Ref^a PTDC/CTE-ATM/105507/2008,
(https://www.fct.pt/apoios/projectos/consulta/vglobal_projecto?idProjecto=105507&idElemConcurso=2703)
- High-resolution Rainfall Erosivity analysis and forecasting - RESORT. Ref^a PTDC/CTE-ATM/111508/2009,
(http://www.fct.pt/apoios/projectos/consulta/vglobal_projecto?idProjecto=111508&idElemConcurso=3577)

STUDENTS SUPERVISION

PhD

- Susana Cardoso Pereira (2010 -) - Evaluation of uncertainties associated with the prediction of precipitation of short lived high precipitation events in mainland Portugal'. Supervisors: Alfredo Rocha and Ana Cristina Carvalho.
- João Carlos Martins Teixeira (2013 -) - Previsão numérica do recurso solar na Península Ibérica (Numerical forecast of solar resources over the Iberian Peninsula) Supervisors: Alfredo Rocha and Ana Cristina Carvalho.
- João Miguel Barbosa Botelho de Sousa. (2010 -2011) - Ensemble model in atmospheric-soil interactions. Supervisors: Alfredo Rocha and Ana Cristina Carvalho.

Master

- JOÃO CARLOS MARTINS TEIXEIRA (2012). WRF sensitivity to lower boundary and urban canopy parametrisations. Presented in 26 of November 2012 to obtain the Master Degree in Meteorology and Oceanography Physics at the University of Aveiro. (<http://ria.ua.pt/handle/10773/10175>)
- JOANA DE FIGUEIREDO GRAZINA JUSTINO (2012-2013) Gas emissions on rice culture and its importance on air quality. Presented the 17th of May 2013 to obtain the Master degree on Environmental Engineering, Faculty of Sciences and Technology, Nova University of Lisbon.