

Education

- Degree of Mathematics (Athens University).
- PhD in Physics (Athens University, Section of Physics).
- Post-graduated Research Student (National Observatory of Athens, 1989-1993).

Professional Objectives

- Assistant Professor, Dept. of Environmental Technologists, Technological Educational Institute of the Ionian Islands (2008).
- Department President and vice-President (2010-14).
- Supervisor of the Environmental Physics Sector (2008 -).
- Vice-President of the Education and Research Committee of TEI of Ionian Islands (2010-2011). President or Member in numerous Scientific and/or Administrative Committees of the department.

Teaching Experience

- Supervisor and lecturer of the following courses:
 - Environmental Fluid Mechanics (Theory and Laboratory, 2005-)
 - Meteorology - Climatology (Theory and Laboratory, 2008-)
 - Mathematics I (Calculus and Analysis, 2003-)
 - Mathematics II and Statistics (Differential Equations, Vectors Algebra, Fields, Basic Statistics, 2003-)
 - Scientific Software (Theory and Laboratory, 2014-)
 - Renewable Energy Sources – Solar and Aeolic Systems (Theory, 2015-).
- Supervisor of numerous graduate thesis.
- Invited Professor of the Lille-1 Sciences and Technologies University, Lille, France.

Scientific publications

- Prototype research work has been published in various scientific journals and/or academic series¹ primarily in the knowledge fields of the Climatic and Atmospheric Dynamics (such as, the *Atmospheric Research*, the *International Journal of Climatology*, the *Theoretical and Applied Climatology*, the *Atmospheric Science*, the *Urban Climate*), but also of the Hydrological cycle and of complex Geophysical processes (e.g. in the *Journal of Applied Geophysics*, and the *Advances in the Research of Aquatic Environment*) and earlier, in journals related with the Thermodynamics and Fluid Dynamics evolutionary processes in the interiors of close binary stellar systems (such as, the *Astrophysics and Space Science*, the *Astronomy and Astrophysics*, the *Recent Advances in Astronomy and Astrophysics – American Institute of Physics*, the *NATO Advanced Studies Institute*). Some indicative publications:
 - Kalimeris A, and Founda D (2018): Interannual and interdecadal variability modes of the Athens total cloud cover. *International Journal of Climatology*. DOI:10.1002/joc.5687
 - Kalimeris A, Ranieri E, Founda D, and Norrant C (2017) : Variability modes of precipitation along a Central Mediterranean area and their relations with ENSO, NAO, and other climatic patterns. *Atmospheric Research*, 198, 56-80.
 - Kolios S and Kalimeris A (2016): Annual and Monthly Precipitation Variability in the Ionian Islands Using 16-Year TRMM Data, in *Perspectives on Atmospheric Sciences*, Karacostas T, Bais A, Nastos P (eds), Springer Atmospheric Sciences Series, 491-496.
 - Nanouris N, Kalimeris A, Antonopoulou E and Rovithis-Livaniou H (2015): Efficiency of ETV diagrams as diagnostic tools for long-term period variations. II. Non-conservative mass transfer, and gravitational radiation. *Astronomy & Astrophysics*, 575, A64, 1-13
 - Kalimeris A, Founda D, Giannakopoulos C, Pierros F, (2012) : Long term precipitation variability in the Ionian Islands (Central Mediterranean): Climatic signal analysis and future projections. *Theoretical and Applied Climatology*, 109, 51-72.

¹ Bibliographic basis CDS de Strasburg.

- Numerous scientific announcements has been realized and published through the Proceedings of International Scientific Conferences (such as, the *European Geosciences Union*, the *International Conference on Meteorology Climatology and Atmospheric Physics*, the *European Conference on Applications of Meteorology*, the *International Conference on the Mediterranean Coastal Environment*, and others).
- Author of two text books (in Greek):
 - Environmental Fluid Mechanics, an introduction to geophysical flows, 2007, 425 pp., ISBN: 978-960-91902-1-3
 - An introduction to the Ordinary Differential Equations, 2004, 214 pp., ISBN: 978-960-91902-2-0
- Chapter author and Editor of Lecture-Notes volumes of three Summer Schools on the Dynamics and Administration of the Mediterranean Sea Environment (2011, -12, -13)
- Complete Lecture notes for the courses of the ‘Environmental Software’ (theory and laboratory) and of the ‘Renewable Energy Sources – Solar and Aeolic Systems’. Author of numerous Laboratory Exercises of the ‘Meteorology-Climatology’ and the ‘Environmental Fluid Mechanics’ courses.

Scientific Projects and Laboratory Equipment

- Participation as a researcher in International and National Research Projects, such as:
 - Climate-Smart Coastal Practices for Blue governance (BlueCoast Project), Interreg IPA-CBC, 2014-2020
 - IRENE (Institute de Recherches en Environnement Industriel) “Atmospheric composition change due to climate-chemistry interactions: application over the French North region”, Lille-1 University of Sciences and Technology, 2011.
 - Lifelong Learning Programme, Leonardo da Vinci project “*Chemistry is all around us*”, 2010-11.
 - NATO-Scientific and Environmental Research Division, Research Grant 921 208, “*Physical Processes in Interacting Binaries*”, 1996-98.
 - NATO-Scientific and Environmental Research Division, Research Grant 921 208, “*Observational and Theoretical Study of Active Close Binaries*”, 1994-96.
 - Thalys-IndraQ, Technological Educational Institute of Piraeus, “Indoor air quality monitoring in Greek dwellings” (2012 – 2015).
 - Archimedes III, PreEQdisEmpsEM, Technological Educational Institute of Piraeus: “Study and Analysis of seismic precursor electromagnetic radiation” (2012–15).
- Project Manager of the action: "Current Meteorological Conditions, Climatic Variability, and Forest Fire Risk Assessment in the Ionian Islands" of the “*LAERTIS - Innovative Operational System for Natural Hazards Management in the Ionian Islands Region*” Project (MIS 5010951), 2018-2021.
- Project Manager of the Interreg IV European Territorial Cooperation Programme DEMSNIISI “Development of an Environmental-Meteorological Stations Network on the Ionian Islands and the Southern Italy” (2012-2015).
- Department Administrator for the National Strategic Reference Framework (NSRF) program “The Polynesian Project” (2011-13), President of the Organizing Committee and Administrator in three Summer Schools in “Dynamical and Administration of Mediterranean Sea Environment”.
- Administrator of trans-institutional scientific research memorandums between the Technological Educational Institute of the Ionian Islands and other institutes or bodies (such as the “Institute of Environmental Research and Sustainable Development of the National Observatory of Athens”, and the “Hellenic National Meteorological Service”, etc.).
- Supervisor in the installation, development, and operation of numerous scientific field equipment stations for the monitoring of atmospheric parameters along the Ionian region (such as Meteorological and Solar actinometric stations).

Research Interests

- Climatic variability of the Mediterranean region.
- Sea-atmosphere interaction with emphasis in the Mediterranean region.
- Signal to noise resolution techniques with applications to the climatic variability.
- Computational Fluid Dynamics with applications in the atmospheric boundary layer air flows over complex terrain and/or isolated obstacles.