Stavros Solomos

Curriculum Vitae

Senior Researcher (Grade B)

Research Centre for Atmospheric Physics and Climatology
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PROFESSIONAL PROFILE

Physicist with a PhD in Atmospheric Physics and expertise in atmospheric model development. His research combines numerical modeling with the study of physical processes from planetary to local scales, focusing on aerosols, desert dust, extreme weather, air pollution and climate change.

RESEARCH INTERESTS

Numerical model development · Multiscale atmospheric processes · Aerosols and desert dust · Extreme weather · Air pollution and pollutant dispersion · Climate change.

EDUCATION

2011 Ph.D. in Atmospheric Physics / Atmospheric Model Development, Department of Physics, NKUA.

2003 M.Sc. in Environmental Physics / Meteorology, Department of Physics, NKUA.

2001 B.Sc. in Physics Department of Physics, National and Kapodistrian University of Athens (NKUA).

PROFESSIONAL EXPERIENCE

2020–present Researcher Research Center for Atmospheric Physics and Climatology (RCAPC), Academy of Athens.

2013–2020 Postdoctoral Researcher Institute of Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS), National Observatory of Athens.

2006–2013 PhD Candidate and Postdoctoral Researcher Atmospheric Modeling Laboratory, Department of Physics, NKUA.

MODELS AND OPERATIONAL APPLICATIONS

Member of the development teams for the RAMS-ICLAMS atmospheric model at NKUA; the Fire-HUB and Dust-HUB applications of the BEYOND Centre at the National Observatory of Athens; and the METAL-WRF atmospheric model at the Academy of Athens.

RESEARCH ACTIVITY

He has published 71 articles in peer-reviewed scientific journals. According to Scopus (October 2026), he has an h-index of 24 and 2,444 citations. He has participated in 12 international research field campaigns and more than 40 research projects, serving as Principal Investigator in six.

SELECTED RESEARCH PROJECTS

- MegDeth (HFRI, 2021–2024): Study of the physicochemical properties of airborne desert dust particles. Principal Investigator.
- SALAM-MED (EU PRIMA, 2022–2025): Sustainable approaches to land and water management in Mediterranean drylands. Principal Investigator.
- BIOASTY (ESPA, 2022–2023): Specialized bioclimatic design services to support the sustainability and resilience of the urban environment under climate change. Principal Investigator.

TEACHING EXPERIENCE

2021–2026 Introduction to Climate Change Hellenic Open University.

2018 Dynamic and Synoptic Meteorology NKUA, as an Adjunct Assistant Professor.

2015–2019 Earth System Science and Space Applications Postgraduate programme “Space Science, Technologies and Applications,” University of Peloponnese, in collaboration with the National Observatory of Athens.

ACADEMIC SERVICE

He has served on advisory and examination committees for 9 Master’s theses and 13 PhD dissertations.

SCIENTIFIC PROFILES

ORCID | Web of Science ResearcherID C-4889-2014 | Scopus Author ID 24437444900 | KEFAK Profile