GALANAKI Elissavet

Personal Information

DATE - PLACE OF BIRTH: 5 July 1984 in Athens, Greece
PROFESSION: Research Associate
PROFESSIONAL ADDRESS: National Observatory of Athens, Institute of Environmental Research and Sustainable Development
Lofos Koufou, P. Penteli, 15236, Athens, Greece
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Academic Qualifications

2018: Ph. D. thesis in Meteorology, University of Patras, Greece.
2012: M.Sc. Environmental Physics, National University of Athens, Greece.
2008: B. Sc in Physical Sciences. National University of Athens, Greece.

Scholarships

2014 - 2018: Scholarship from the National University of Athens (inheritance 'Maria Stai') for PhD research.
2009 - 2012: Scholarship from the National University of Athens (inheritance 'Maria Stai') for Master degree.

Professional Experience

- 2018 - today: Research Associate, IERSD/National Observatory of Athens, Greece.
- 2016 - today: Development of outreach material and teaching in educational programs for meteorology and sustainability, IERSD/National Observatory of Athens, Greece.
- 2014 - 2018: Early-state Researcher, IERSD/National Observatory of Athens, Greece.

Areas of expertise

Expert in the numerical weather prediction activities related to WRF, WRF-hydro and oceanic modeling activities in the Mediterranean area related to the Princeton Ocean Model (POM).
Expert in climatological studies about lightning, thunderstorm, cyclone activity, climate indices and ensemble precipitation forecasts.
Expertise in computer programming (Unix bash, Fortran, Python, matlab, NCL, CDO, NCO) and high-performance (HPC) computing.
Profound experience in the development of outreach material and teaching in educational programs about meteorology, climate change and sustainable living.

Professional Experience

2018 - today: Research Associate at the National Observatory of Athens. Main fields of research: meteorology, climatology, numerical weather prediction, lightning activity and hydro-meteorology. These studies are based on the application of state-of-the-art meteorological and hydro-meteorological modelling systems (WRF, WRF-Hydro) as well as of observational platforms (surface networks, and lightning networks).

2016 - today: Development of outreach material and teaching in educational programs at National Observatory of Athens. The educational programs have as main subject the

meteorology, the sustainability and the climate change. Part of these programs have been funded by Stavros Niarchos Foundation and by Titan Cement Group.

2014 - 2018: Early-state researcher at the National Observatory of Athens. Main topics of research: meteorology, climatology, cyclone activity and atmospheric modelling systems.

Other Activities

- **Reviewer (International Journals)**

Atmospheric Research
Atmosphere
International Journal of Climatology
Journal of Applied Meteorology and Climatology
Monthly Weather Review
Natural Hazards and Earth System Sciences

Citation Report (Web of Science, 3/12/2021)

Publications in International Journals	7
H-index	4
Total times Cited	103

Publications in International Journals

1. Galanaki E., V. Kotroni, K. Lagouvardos, and A. Argiriou, 2015: A ten-year analysis of lightning activity over the Eastern Mediterranean. Atmospheric Research, 166, 213-222.
2. Galanaki E, E. Flaounas, V. Kotroni, K. Lagouvardos and A. Argiriou, 2016: Lightning activity in the Mediterranean: Quantification of cyclones contribution and relation to their intensity. Atmospheric Science Letters, 17, 519-516.
3. Saha U., D. Singh, A. Kamra, E. Galanaki, A. Maitra, R. Singh, A. Singh, S. Chakrabotry, and R. Singh, 2017 : On the association of lightning activity and projected cahnge in climate. Atmospheric Research, 183, 173-190.
4. Galanaki E, K. Lagouvardos, V. Kotroni, E. Flaounas, and A. Argiriou, 2018: Thunderstorm climatology in the Mediterranean using cloud-to-ground lightning observations. Atmospheric Research, Atmospheric Research, 207, 136-144.
5. Makri K., E. Galanaki, I. Koletsis, V. Kotroni, and K. Lagouvardos, 2020: Assesment of informal learning program on weather phenomena: its perception and necessity in Greece. International Journal of Educational Research Review, 5(3), 315-334.
6. Giannaros C., E. Galanaki, V. Kotroni, K. Lagouvardos, C. Oikonomou, H. Haralambous, and T.M. Giannaros, 2021: Pre-Operational Application of a WRF-

Hydro-Based Fluvial Flood Forecasting System in the Southeast Mediterranean. Forecasting, 3, 437–446. https:// doi.org/10.3390/forecast3020026.
7. Galanaki E., K. Lagouvardos, V. Kotroni, T. Giannaros, and C. Giannaros: Implementation of WRF-Hydro at two drainage basins in the region of Attica, Greece, for operational flood forecasting, Nat. Hazards Earth Syst. Sci., 21, 1983–2000, https://doi.org/10.5194/nhess-21-1983-2021, 2021.
8. Galanaki E., G. Emmanouil, K. Lagouvardos, and V. Kotroni, 2021: Climatology of surface solar radiation downwards over the Euro - Mediterranean region. Atmosphere, 12, 1431. https://doi.org/10.3390/atmos12111431.
9. Kotroni V., K. Lagouvardos, A. Bezes, S. Dafis, E. Galanaki, C. Giannaros, T. Giannaros, A. Karagiannidis, I. Koletsis, T. Kopania, K. Papagiannaki, G. Papavasileiou, V. Vafeiadis, and E. Vougioulas: Storm Naming in the Eastern Mediterranean: Procedures, Events Review and Impact on the Citizens Risk Perception and Readiness. *Atmosphere* **2021**, *12*, 1537. https://doi.org/10.3390/atmos12111537.

Projects – Participation as Research associate

Flammable Greece – Increasing awareness and preparedness for extreme fire weather and behavior, funded by Hellenic Foundation for research and Innovation and the General Secretariat for Research and Technology (GSRT), under grant agreement, 2021 - now

Development of a multicriteria platform for the assessment of efficiency of adaptation measures to climate change, Adapt2cc, funded by Ganeral Secretariat for Research and Innovation , 2020 - now

“Educational Programme for the Secondary Education: Peri Anemon & Ydaton”, 2016 - now

Observatory of Air and Particulate Pollution over Greece, funded by Hellenic Foundation for research and Innovation and the General Secretariat for Research and Technology (GSRT), under grant agreement No 409, 2019

«Thunder and Lightning Observing and forecasting System – TALOS», funded by the Greek Ministry of Education ARISTEIA II, 2014 - 2015