



Kyriaki – Maria (Sandy) Fameli

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SHORT CV

Dr. Kyriaki-Maria is a Research Associate at the Institute of Environmental Research and Sustainable Development (IERSD), **National Observatory of Athens (NOA)** and at the Department of Shipping, Trade and Transport, University of the Aegean. She received her Ph.D. (2015) in environmental modeling at the Physics Department of the **National and Kapodistrian University of Athens (NKUA)**, Greece.

Her research interests are focused on: 1) the emission inventory development (classical pollutants and greenhouse gases) from anthropogenic and biogenic activities, 2) the numerical study of air and particulate pollution over urban areas, 3) the creation of databases with the use of Geographic Information Systems and 4) the air pollution monitoring. During her PhD thesis she developed the FEI-GREGAA Emission Inventory for Greece. From 2018 to 2021 she was the scientific coordinator of the project AirPaP. Within this project an integrated air quality system was developed based on state-of-the-art scientific tools that enable the analysis of the air quality characteristics of Greece and the Greater Athens Area (GAA) in particular. This was achieved with the combination of an accurate and updated emission inventory (FEI-GREGAA), numerical simulations (WRF/CAMx) and air quality measurements (deployment of low-cost air quality sensors). Moreover, she is responsible for the development, management, and promotion to the public of information about the local air quality on a 3-hour basis for 500 points of interest in Greece through the website www.meteo.gr (in Greek).

She has participated in many national and European projects gaining valuable experience on issues related to the atmospheric photochemical processes and the influence of various parameters (emissions, land use, meteorology, etc.) on urban air quality. She is a member of the Forum for Air quality Modeling (FAIRMODE) which is chaired by the European Commission Joint Research Centre (JRC). She has published more than 30 papers in conferences and international peer-reviewed journals. She is also a reviewer at many international journals and editor at the special issue "Advances in Integrated Air Quality Management: Emissions, Monitoring, Modelling", included at the section "Air Quality" of the journal Atmosphere.

EDUCATION

2015 – **Ph.D. in Physics, Physics Department, NKUA, Greece**

Title: "Numerical Study of the Photochemical and Particulate Pollution over the Greater Athens Area after 2004"

2009 – **M.Sc. in Environmental Physics, Physics Department, NKUA, Greece**

2005 – **B.S. in Physics, Physics Department, NKUA, Greece**

SCIENTIFIC EXPERIENCE

RESEARCH INTERESTS

Dr Fameli has worked at 12 scientific projects covering the below scientific areas (relevant projects):

- **Numerical study of air and particle pollution and air quality monitoring in an urban environment.** With the application of a meteorological-photochemical modelling system, the parameters that determine the physicochemical characteristics of the atmosphere quality are examined in depth, such as emission sources, meteorological conditions, chemical reactions and deposition processes of gaseous pollutants and particles. Moreover, air quality sensors

have been deployed at urban areas in the Greater Athens Area and islands in the Aegean Sea with the aim of studying real-time the quality of the atmosphere. (EN.I.R.I.S.S.T.+, KRIPIS – THESPIA I & II, ACTRIS 2, GRETIA)

- **Air quality forecasts.** Information about the local air quality for today and the next 2 days are provided daily on the website www.meteo.gr with a time step of three hours for 500 points throughout the Greek territory. (AirPaP, KRIPIS – THESPIA II)
- **Emissions Inventory.** Development and management of an open data platform of pollutant emissions (classical and greenhouse gases) from anthropogenic and biogenic activities. As part of my PhD thesis, the FEI-GREGAA emission database for Greece and the Greater Athens Area was created which is constantly updated with new data, pollutants, and sources in accordance with European and national directives. (AirPaP, KRIPIS – THESPIA II, Cyclurban)
- **Awareness Raising** about climate change issues, promotion of alternative means of transport and information about consumer products (CLIMAS, Cyclurban, LIFE Ask REACH)

The past 5 scientific projects

- **2023 – 2025: CLIMAS** (CLIMate change citizens engagement toolbox for dealing with Societal resilience), Un.Aegean, Associate researcher, European Union’s Horizon Europe under Grant Agreement N° 101094021
- **2022 - 2023: ENIRISST+** (Intelligent Research Infrastructure for Shipping, Supply Chain, Transport and Logistics), Un.Aegean, Associate researcher, funded by the Operational Programme “Competitiveness, Entrepreneurship and Innovation” (NSRF 2014-2020), MIS 5027930,
- **2018 - 2021: AirPaP** (Observatory of Air and Particulate Pollution over Greece), NOA, Principal Investigator, Grant agreement No 409, HFRI/GSRI
- **2018 - 2019: Cyclurban** (Cycling as an element of urban climate mitigation policy), NOA, Associate researcher, EUKI – 81218709/ 17.9045.0-002.17, GIZ GmbH
- **2017 – 2018: LIFE AskREACH** (Enabling REACH consumer information rights on chemicals in articles by IT-tools), NOA, Associate researcher, (LIFE16 GIE/DE/000738), EU - LIFE

DIGITAL SKILLS

ArcGIS (ArcView, 3D Analyst, Spatial Analyst)	Microsoft Office (Word, Power Point, Excel)	SPSS
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LANGUAGE SKILLS

Mother tongue: GREEK

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CONFERENCES AND SEMINARS

Since 2010

Participation in conferences and workshops

>25 contributions in international conferences with abstracts and conference proceedings

PUBLICATIONS

Publications in peer-reviewed journals

Co-authored 15 papers published in refereed journals. The total number of citations to all my refereed papers is ~266, while my h-index is 8 (source: Scopus, 13/02/2024). Representative papers follow:

- K.M. Fameli and V.D. Assimakopoulos, "Development of a road transport emission inventory for Greece and the Greater Athens Area: Effects of important parameters", *Science of The Total Environment*, 505, pp. 770–786 (2015).
- Fameli, K.-M., Assimakopoulos, V.D., "The new open Flexible Emission Inventory for Greece and the Greater Athens Area (FEI-GREGAA): Account of pollutant sources and their importance from 2006 to 2012", *Atmospheric Environment*, 137, pp. 17–37 (2016).
- Pisoni, E., Guerreiro, C., Lopez-Aparicio, S., (...), Sokolovski, E., Cuvelier, C., "Supporting the improvement of air quality management practices: The "FAIRMODE pilot" activity", *Journal of Environmental Management*, 245, pp. 122-130 (2019).
- Fameli, K.-M., Kladakis, A., Assimakopoulos, V.D., "Inventory of Commercial Cooking Activities and Emissions in a Typical Urban Area in Greece", *Atmosphere*, 2022, 13(5), 792

NETWORKS AND MEMBERSHIPS

- ✓ Guest Editor at the special issue "Advances in Integrated Air Quality Management: Emissions, Monitoring, Modelling", included at the section "Air Quality" of the journal *Atmosphere* (Volumes 1, 2 & 3).
- ✓ Member of the Hellenic Meteorological Society
- ✓ Member of the Forum for Air quality Modeling (FAIRMODE) which is chaired by the European Commission Joint Research Centre (JRC).
- ✓ Participation at the organizing committee of the FAIRMODE Technical Meeting that was held in Athens 19-22 June 2017 (funding: NOA, JRC)
- ✓ Reviewer at 11 international scientific journals
- ✓ Provision of scientific guidance at postgraduate and undergraduate thesis in collaboration with the Physics department, National and Kapodistrian University of Athens (NKUA) and the University of West Attica