Orestis Speyer

Date of birth: 22/09/1982   ✉ **Email address:** ospeyer@noa.gr

WORK EXPERIENCE

Research Fellow
National Observatory of Athens (NOA/IERSD) [31/01/2014 – Current]

City: Athens
Country: Greece
Website: http://apcg.space.noa.gr/

Member of the Greek GEO Office, contact person of the Sustainable Development Goals. Member of the The Earth Observations Toolkit for Sustainable Cities and Human Settlements. Project management and proposal preparation as member of the Atmospheric Physics and Chemistry Group (APCG).
Born in Athens, Greece in 1982. Studied Physics at NKUA and graduated in 2005. M.Sc. degree in Environmental Physics (2008) from the department. His master's thesis was in the field of atmospheric modeling. During 2009-2013 he worked as senior IT of an Intermediary Body (EFEPAE). He then moved to IERSD/NOA working under various research/innovation projects.
Highly interested in the science/policy interface, the exploitation of Earth Observation addressing urban challenges and leveraging the Group on Earth Observation (GEO) paradigm in national/European projects and/or initiatives.
ORCID:https://orcid.org/0000-0001-5252-7080

Worked under the following projects:
InCase 2021-Present: - In Situ data for Climate Adaptation Showcases within EuroGEO.Responsibl e for the Losses and Damages due to Climate Hazards Showcase.
GAUSS 2021-Present: GAUSS - Generating Advanced Usage of Earth Observation for Smart Statistics. Project management and responsible for the Geek Use Case on AQ.
EIFFEL 2021-Present: EIFFEL - Revealing the role of geoss as the default digital portal for building climate change adaptation & mitigation applications.Leader of the Pilot on urban GHG mitigation.
e-shape 2020-2023: EuroGEO Showcases: Applications Powered by Europe. Responsible for the Greek implementation of the Earth Observation Maturity Indicator (EOMI) methodology.
PANACEA 2019-2020 : PANhellenic infrastructure for Atmospheric Composition and climatE chAnge. Urban scale Air Quality modeling, improvements of the corresponding emission inventory, preparation of meteorological field (WRF), evaluations against in situ measurements, production of health related indicators.
SMURBS/ERA-PLANET 2018-2021: SMart URBan Solutions in AQ and natural disasters and urban growth. Member of the project core group. Development of the methodology to gather user needs, search and inventorying of existing smart city solutions. Exploration of the interface between Earth Observation (EO) and Sustainable Development Goals (SDG), application of an EO-SDG solution on air quality. Part of the Copernicus uptake team of SMURBS. Contributed to the "Mainstreaming EVs across GEO" white paper.
THESPIA II 2018-2019: Incorporation of a state-of-the-art tool in the modeling infrastructure of the Institute for sensitivity analysis of chemistry-atmosphere-climate interactions.
ACTRIS-2 2016-2017: Aerosols, Clouds, and Trace gases Research InfraStructure Network. Horizon 2020: Analysis of aerosol natural properties. Study the effect of residential wood burning on air quality.
THESPIA 2014-2015: Implementation of the numerical atmospheric model COSMO-ART over Greece.

Head of IT
Intermediary Body of NSRF 2007-2013 EFEPAE [31/05/2009 – 31/12/2013]

City: Athens

Country: Greece
Website: https://www.efepae.gr/frontend/index.php

Administrator, State Funds Informatics System (PSKE, ESPA).
Report production, SAP - Business Intelligence.
Data integrity of input in the Monitoring Information System (M.I.S., OPS-ESPA).
Business and Software Interface. Technical consultation on software realization of Call of Proposals and ensuing documents.
Creation, maintenance of EFEPAE website

Laboratory member as an MSc student
Group of Numerical applications in the atmosphere, Physics Department, NKUA, Greece [31/12/2007 – 31/08/2008]

City: Athens
Country: Greece

Worked under the ECATS program (Environmentally Compatible Air Transport System) utilizing a regional atmospheric model to produce wind fields for further use in a CTM.

Employee in a publishing house
[31/10/2007 – 30/05/2008]

City: Athens
Country: Greece

Laboratory teaching assistant
Physics Department, NKUA, Greece [31/01/2008 – 30/05/2008]

City: Athens
Country: Greece

EDUCATION AND TRAINING

M.Sc. Environmental Physics
Environmental Physics & Meteorology, Physics Department, NKUA, Athens, Greece

Thesis: Application of an atmospheric model in the Mesogeia region

B.S. Physics
Physics Department, NKUA, Athens, Greece

Final grade: 7.06
Thesis: Evaluation of meteorological indices in Crete

LANGUAGE SKILLS

Mother tongue(s): **Greek**

Other language(s):

English	**Spanish**
LISTENING C2 **READING** C2 **WRITING** C2	**LISTENING** A2 **READING** A2 **WRITING** A2
SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2	**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2

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

PUBLICATIONS

Localizing SDG 11.6.2 via Earth Observation, Modelling Applications, and Harmonised City Definitions: Policy Implications on Addressing Air Pollution

[2023]

Bailey, J., Ramacher, M.O.P., Speyer, O., Athanasopoulou, E., Karl, M., Gerasopoulos, E.

Earth observation: An integral part of a smart and sustainable city

[2022]

Gerasopoulos, E., Bailey, J., Athanasopoulou, E., Speyer, O., Kocman, D., Raudner, A., Tsouni, A., Kontoes, H., Johansson, C., Georgiadis, C., Matthias, V., Kussul, N., Aquilino, M., Paasonen, P.

State-of-play in addressing urban environmental pressures: Mind the gaps

[2022]

Georgiadis, C., Patias, P., Verde, N., Tsioukas, V., Kaimaris, D., Georgoula, O., Kocman, D., Athanasopoulou, E., Speyer, O., Raudner, A., Karl, M., Gerasopoulos, E.

The urbem hybrid method to derive high-resolution emissions for city-scale air quality modeling

[2021]

Ramacher, M.O.P., Kakouri, A., Speyer, O., Feldner, J., Karl, M., Timmermans, R., van der Gon, H.D., Kuenen, J., Gerasopoulos, E., Athanasopoulou, E.

Meeting volunteer expectations — a review of volunteer motivations in citizenscience and best practices for their retention through implementation of functional features in CS tools

[2021]

Robinson,J.A., Kocman, D., Speyer, O., Gerasopoulos, E., Meeting volunteer expectations — a review

National Plan for Open Science

[2020]

Spiros Athanasiou; Vasilis Amiridis; Maria Gavriilidou; Evangelos Gerasopoulos; Alexandros Dimopoulos; Georgina Kaklamani; Fotis Karagiannis; Iraklis Klampanos; Dimitra Kondili; Kostas Koumantaros; Panos Konstantopoulos; Katerina Lenaki; Angelos Likiardopoulos; Natalia Manola; Despoina Mitropoulou; Agiatis Benardou; Nikolaos Boukos; Alexandros Nousias; Maria Ntaountaki; Stella Oikouta; Lia Ollandezou; Elli Papadopoulou; Ilias Papastamatiou; Stelios Piperidis; Orestis Speyer; Prodromos Tsiavos; Evangelia Chrysina; Fotis Psomopoulos

Changes in domestic heating fuel use in Greece: effects on atmospheric chemistry and radiation

[2017]

Athanasopoulou, E., Speyer, O., Brunner, D., Vogel, H., Vogel, B., Mihalopoulos, N. and Gerasopoulo

C.: Dust impact on surface solar irradiance assessed with model simulations, satellite observations and ground-based measurements

[2017]

Kosmopoulos, P. G., Kazadzis, S., Taylor, M., Athanasopoulou, E., Speyer, O., Raptis, P. I., Marino

DIGITAL SKILLS

Microsoft Office / Microsoft Excel / Microsoft Powerpoint / good knowledge of Fortran 90 / Experience in HPC environments and working with SLURM scheduler / NCO - CDO tools for Netcdf / NCL / SAP BusinessObjects / C++, basic training / Adobe Dreamweaver / Microsoft Word