

CV of Speyer Orestis, March 2019



Personal Information

Tel: **2108109170**

Email: **ospeyer@noa.gr**

Nationality: **British**

Date of birth: **September, 1982**

Job Address: Institute of Environmental Research and Sustainable Development,
National Observatory of Athens (NOA) , Lofos Koufou, GR 152 36, P. Penteli, Athens,
Greece

Education

2016 – to date: PhD candidate

Chemistry Department, UOC, Heraklion, Crete, Greece

"Study and evaluation of the vertical velocity variability on aerosol-cloud interaction"

2005 - 2008: M.Sc. Environmental Physics

Environmental Physics & Meteorology, Physics Department, NKUA, Athens, Greece

Thesis « Application of an atmospheric model in the Mesogeia region »

2000 - 2005: B.S. Physics

Physics Department, NKUA, Athens, Greece

Grade 7,06

Thesis « Evaluation of meteorological indices in Crete»

Professional Experience

02/2014 - to date: Research Fellow, Institute for Environmental Research & Sustainable Development IERSD/NOA under the following projects:

- ❖ **SMURBS/ERA-PLANET 2018-present: SMart URBan Solutions in AQ and natural disasters and urban growth. Horizon 2020:** Proposal writing. Member of the project core group. Development of the methodology to gather user needs, search and inventorying of existing smart city solutions, development and implementation of city-scale modeling. Quality assurance for deliverables. 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.

- ❖ **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
- ❖ **ACTRIS PPP 2016-2017:** ACTRIS Preparatory Phase Project. Horizon 2020: Analysis of aerosol natural properties Analysis of aerosol natural properties. Study the effect of residential wood burning on air quality
- ❖ **Climate Change Impacts 2015:** Processing and statistical analysis of climate-meteorological data and trends
- ❖ **THESPIA 2014-2015:** Implementation of the numerical atmospheric model COSMO-ART over Greece. Study the effect of residential wood burning on air quality and explore the feedback interactions between aerosols and meteorology

06/2009 - 01/2014: Head of IT, Intermediary Body of NSRF 2007-2013 [EFEPAE](#):

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 site (www.efepae.gr).

01/2008 - 09/2008: Member, Group of Numerical applications in the atmosphere, Division of Environmental Physics & Meteorology, Department of Physics, NKUA, Athens, Greece, under the ECATS program (Environmentally Compatible Air Transport System)

02/2008 - 05/2008: Teaching activity in the laboratory of Environmental Physics, Department of Physics, NKUA, Athens, Greece as an M.Sc. student

11/2006 - 03/2007: Employee in a publishing house

01/2008 - 09/2008: Internship, Hellenic Petroleum - Evaluation and synthesis of reports on the Carbon Market

Articles in Peer Reviewed Journals

- Athanasopoulou, E., **Speyer, O.**, Brunner, D., Vogel, H., Vogel, B., Mihalopoulos, N. and Gerasopoulos, E.: *Changes in domestic heating fuel use in Greece: effects on atmospheric chemistry and radiation*, Atmos. Chem. Phys., 17(17), 10597–10618, doi:10.5194/acp-17-10597-2017, 2017
- Kosmopoulos, P. G., Kazadzis, S., Taylor, M., Athanasopoulou, E., **Speyer, O.**, Raptis, P. I., Marinou, E., Proestakis, E., Solomos, S., Gerasopoulos, E., Amiridis, V., Bais, A. and Kontoes, C.: *Dust impact on surface solar irradiance assessed with model simulations, satellite observations and ground-based measurements*, Atmospheric Measurement Techniques, 10(7), 2435–2453, doi:10.5194/amt-10-2435-2017, 2017

Participation in Book Publications

- Athanasopoulou E., **Speyer O.**, Apostolopoulou S., Papageorgiou S., Amiridis V. and Gerasopoulos E.: Near Real-Time Aerosol Predictions During the First Citizen Observatory Campaign in Greece, Springer Atmospheric Sciences, Theodore Karacostas et al. (Eds): Perspectives on Atmospheric Sciences, 978-3-319-35094-3, 395543_1_En, (118), DOI: 10.1007/978-3-319-35095-0_118, 2016

Publications In International Conferences –Symposia

- **Speyer O.**, Athanasopoulou E., Gerasopoulos E., Brunner D., Vogel H., and Vogel B.: Investigation of direct radiative effects of aerosols due to changes in domestic heating fuel, Symposium on Coupled Chemistry-Meteorology/Climate Modelling, WMO Headquarters, Geneva, Switzerland 23-25 February 2015
- Athanasopoulou E., **O. Speyer**, D. Brunner, H. Vogel, B. Vogel E. Gerasopoulos and N. Mihalopoulos, Residential wood combustion in Athens 2010: Impacts on air quality and atmospheric variables, 10th International Conference on Air Quality - Science and Application, 14-18 March, 2016, Milan, Italy

Workshops -Meeting Presentations

- Speyer O.: Solutions/City Dossiers Next Steps, SMURBS Annual Meeting PM1, 9-10 October 2018, Athens, Greece
- Speyer O.:SMURBS/ERA-PLANET and the smart cities approach, Session “SDG11 Sustainable cities and communities”, EuroGEOSS Workshop, 12-14 September 2018, Geneva Switzerland
- Speyer O.: Round Table Rapporteur, SMURBS workshop on user needs, HZG, Hamburg, Germany, 27-28March, 2018
- Elise Hendriks, Frans Snik, Christoph Keller, Eleni Athanasopoulou, **Orestis Speyer**, Evangelos Gerasopoulos, Vassilis Amiridis et al: ISPEX-EU: European citizens measure air pollution with their smartphone, One Step BEYOND Workshop, 15 October 2015, Frascati (Italy)
- Speyer O., Athanasopoulou E., Gerasopoulos Evangelos, 2014: COSMO-ART applications for the area of Greece: first results and on-going work, 16th COSMO General Meeting, 8-11 September 2014, Eretria (Greece)
- Tombrou, M., Speyer, O., Dandou, A., Bossioli, E., Athanasopoulou, E., Protonotariou A., 2008: Athens International Airport Atmospheric Modeling Results. ECATS Autumn School on Airport Air Quality, Sinaia, Romania, November 2008

Technical and Scientific Skills

Native Language: **Greek**

Other Languages: **English, Certificate of Proficiency in English** (Cambridge University, Grade B) and **Spanish, Diploma Inicial** (Ministra de Educación)

Technical :

- Good knowledge of Fortran programming
- Working experience in Unix/Linux environment and High Performance Computing
- Good knowledge of NCL (NCAR Command Language)
- Good knowledge of Dreamweaver
- Good knowledge of SAP Business Objects
- Basic knowledge of C++

Scientific

- Experience in installing, parameterizing and using atmospheric circulation and air quality models (COSMO-ART, WRF)
- Working experience on the Sustainable Development Goals and Copernicus frameworks
- Proposal writing experience in European and co-funded tenders (H2020, LIFE, ESPA, ELIDEK)
- Proposal writing experience for access to HPC resources (ARIS-GRNET)
- Teaching experience in a laboratory of environmental physics

Scientific seminars:

- Participation in the VLab (Virtual Laboratory) Workshop of GEOEssential H2020 project, Florence, Italy, 02/2019
- Participation in the COSMO/COSMO-ART training course 2014, Langen (DWD, KIT, COSMO Consortium), 02/2014
- Participation in the 1st Workshop on «Techniques for efficient usage of the National HPC infrastructure, ARIS» of GRNET, 09/2015
- Participation in the ECATS Autumn School on Airport Air Quality, Sinaia, Romania (ECATS, MMU, DLR), 11/2008