Curriculum Vitae

Personal Information



Stavros Keppas

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Date of birth OMISSIS | **Nationality** OMISSIS

Education

09/2014 – 06/2019: Philosophers Degree (PhD) in Linking remote sensing and in-situ data of cloud properties. *The University of Manchester, UK (Full scholarship from the University). Covered fields: Cloud Microphysics, Weather Radars, Remote Sensing, Data Analysis.*

09/2009 – 07/2012: Master of Science (MSc) in Meteorology, Climatology and Atmospheric Environment (8.89 / 10). *Aristotle University of Thessaloniki, Greece. Covered fields: Meteorology, Climatology, Physics of Atmosphere, Air Pollution.*

09/2005 – 11/2009: Bachelor of Science (BSc) in Geology (7.49 / 10). *Aristotle University of Thessaloniki, Greece. Covered fields: General Geology, Geophysics, Geotectonics, Hydrology, Palaeontology, Mineralogy, Meteorology, Climatology.*

Educational Experience

09/2014 – 06/2017: Demonstrator (in the framework of the PhD programme) in labs, which took place in the University of Manchester:

- In School of Earth and Environmental Sciences (SEES): *Introduction to Earth (EART10301; 1 semester – 40 hours), Atmospheric Laboratory Techniques (EART20200; 1 Semester – 12 hours), Computing, data analysis and communication skills (EART20170; 1 semester – 16 hours), British Stratigraphy / Geological Maps (EART10122; 1 semester – 36 hours)*
- In Mechanical, Aerospace and Civil Engineering (MACE): *Rock Identification (MACE10212; 3 semesters – 24 hours)*
- Online demonstration (Coursera): *a. Our Earth (6 hours)*

18/08/2015 – 30/08/2015: Participation as member (for educational purposes) of microphysical cloud team of the University of Manchester in ICE-D project in Praia, Cape Verde. The project was supported by EUFAR, FAAM and it was focused on the role of dessert dust in different microphysical cloud processes.

01/04/2011 – 31/05/2011: Practical training in the Hellenic National Meteorological Services and Hellenic Organisation of Agricultural Insurance. This training took place in the framework of the MSc program focusing mainly on weather forecasting.

Work Experience

01/11/2021 – now: Meteorologist - researcher in Ex Machina (part time, remotely), Athens. Evaluation of a global network of weather stations.

01/09/2020 – now: Meteorologist - forecaster in the Greek radio channel Real FM. Production and presentation of weather forecast for north Greece in a daily basis.

22/05/2019 – now: Meteorologist - Researcher in the Aristotle University of Thessaloniki, School of Physics, Laboratory of Atmosphere Physics. Current projects LIFE-ASTI (European) and CLIMPACT (National). Working on the effect of Urban Heat Island in Thessaloniki and Rome and heat extremes in Greece in present and future climate. Some of the responsibilities are the production of future simulations using the regional weather model WRF, evaluation of the model outputs and analysis of the results.

01/01/2010 – now: Co-founder, administrator and forecaster on www.northmeteo.gr (and northmeteo.gr group on facebook, Instagram and youtube). Editing/Writing posts and forecasts for Greece, programming of basic python algorithms and installing weather cameras and meteorological stations developing a network.

01/01/2016 – 09/2017: General Invigilator in the University of Manchester (Student Services Centre) during January, May-June and September exams.

01/08/2012 – 31/12/2012: Researcher in the Aristotle University of Thessaloniki, School of Geology, Department of Meteorology, in the project "GEOCLIMA" (working with Statistica and Arcmap GIS software). The project focused on the spatialisation of climate data from the Hellenic National Meteorological Service weather station network. Developing linear regression relationships between geographical and climatic parameters and creating climatic atlas.

01/09/2011 – 30/03/2012: Weather forecast presenter in TV Serres channel. Preparation and presentation of weather forecast once a week.

10/05/2011 – 25/05/2011: Enumerator in national census 2011 (Hellenic Statistical Authority).

01/04/2009 – 30/06/2009: Lab assistant in the School of Geology, Aristotle University of Greece (internship). Preparation of archeological samples to be tested for paleomagnetism.

Personal Skills

Native speaker of: Greek language

Other languages: English (IELTS, 6.5/9), Date of issue: 08/2014,

IT and software skills: Windows and Linux Operating Systems, Igor, Matlab, Python, Photoshop, GrADS, Arcmap GIS, Statistica, Microsoft Office (ECDL core certificate), HTML

Job-related Skills

Teamwork (collaboration with other people in research program), Diligence, Patience, Creativity, Focus, Determination, Presentation skills, Ability to analyse large datasets

Professional Skills

- Profession practising license for Geologists (Date of first issuance: 09/01/2012)
- Member of Hellenic Meterological Company since September 2016

Other Skills / Interests

Scientific: Synoptic Meteorology, Satellite Meteorology, Remote Sensing, Cloud Microphysics, Weather Forecasting, Climatology

Other: Weather Photography (2nd prize in Royal Meteorological Society's competition in 2014)

Driving License

- B (Date of issuance: 16/05/2006, Issued in Greece)

Publications in international scientific journals

- Feidas, Haralambos, et al. "Modelling and mapping temperature and precipitation climate data in Greece using topographical and geographical parameters." Theoretical and Applied Climatology (2013): 1-14.
- Keppas, Ch. S. et al., "Ice lollies: An ice particle generated in supercooled conveyor belts." Geophysical Research Letters (2017).
- Keppas, S. Ch, et al. "Microphysical Properties and Radar Polarimetric Features within a Warm Front." Monthly Weather Review 146.7 (2018): 2003-2022.
- Keppas, Stavros Ch, et al. "Future Climate Change Impact on Urban Heat Island in Two Mediterranean Cities Based on High-Resolution Regional Climate Simulations." Atmosphere 12.7 (2021): 884.

Publications in conference proceedings

- Feidas H., A. Karagiannidis, S. Keppas (2012). Improving air temperature and precipitation climatologies in Greece with satellite data. 2012 EUMETSAT Meteorological Satellite Conference. 3-7 September 2012, Sopot, Poland.
- Feidas, H., et al. "Relating Climatic Variables to Geographic Features in Greece." Advances in Meteorology, Climatology and Atmospheric Physics. Springer Berlin Heidelberg, 2013. 429-436.
- Feidas H., Zanis P., Melas D., Vaitis M., Anadranistakis E., Simeonidis P., Pantelopoulos S, Karagiannidis A., Keppas S., Katragkou E., Dogras C., Kioutsioukis I., Soulakellis N., Kontos Th., Koukourouvli N., Kopsachilis V., Simos D., Triantafyllou E., Taskaris S. , Voudouris P., Ntalaperas D. (2014). The geographic climate information system Geoclima. COMECAP 2014 e-book of proceedings, Ed. Kanakidou M., Mihalopoulos N. and Nastos. P., Creete University Press, 2014, pp. 254-258.
- Keppas, Stavros, et al. "Urban Heat Island and Future Projections: A Study in Thessaloniki, Greece." International conference on Environmental protection and disaster RISKs. Springer, Cham, 2020.

Dissertations / Theses

Undergraduate dissertation:

- Synoptic and dynamic analysis of an intensive episode of Vardaris wind, Aristotle University of Thessaloniki, 2009

MSc Thesis:

- Study on characteristics of a Mesoscale Convective System (MCS) using satellite images, Aristotle University of Thessaloniki, 2012

Poster Presentations / Talks

- Keppas, Stavros, et al. "Ice fall streaks in a warm front. An S-band polarimetric radar study." EGU General Assembly Conference Abstracts. Vol. 19. 2017.
- Microphysical analysis of a warm front using radar and in-situ data. Stavros Keppas*, Jonathan Crosier, Keith Bower, Thomas Choularton, University of Manchester, UK, presentation in ICCP 2016
- Microphysical analysis of a warm front using and linking radar and in-situ data. tavros Keppas*, Jonathan Crosier, Thomas Choularton, Keith Bower, AGU Fall Meeting, New Orleans, 2017

Paper Reviews

- MDPI – Climate: 2 paper reviews in period 2021-2022

Attendance in Workshops / Seminars

- Seminar on "**Severe Weather Phenomena**", Aristotle University of Thessaloniki, Greece, 18 -23 Mar 2010
- Seminar on **"Elaboration and Interpretation of Meteorology Satellite images using MSGView software"**, Aristotle University of Thessaloniki, Greece, 28 -29 Mar 2011
- International Training workshop of EUMETSAT on **"Storm Top Feature as observed by Satellite Imagery"**, Istanbul, Turkey, 14-18 May 2012
- International Training workshop of EUMETSAT on **"Use of satellite data and products in studying and forecasting extreme weather events"**, Thessaloniki, Greece, 30 Sep - 04 Oct 2013
- NCAS courses in **"Introduction to Atmospheric Science"**, University of Warwick, 24 – 28 Nov 2014
- Courses in **"Graduate Teaching Assistant Training"**, University of Manchester, Manchester, United Kingdom, 15 Dec 2014
- NCAS **field measurement school** in Arran Island, 12-22 May 2015
- Courses and training in "**WRF and MPAS forecasting models**", Chester, Organized by NCAS, United Kingdom, 14-19 Sep 2015
- **Enterprise/Business training** (focusing on Commercialization in Research) on behalf of Doctoral Training Program, University of Manchester, 18-19 January 2016

- **Html and CSS training** (organized by Xchange training and University of Manchester), Manchester, 9-10 November 2016
- **Career intensive workshop** (Organized by the Doctoral Training Programme and the University of Manchester), Manchester, 22-23 March 2017
- EUFAR/ ICCP/ IUGG/ IAMAS Expert Workshop On "**Processing of Cloud Particle Measurements"**, DLR, Oberpfaffenhofen, Germany, 7-9 July 2017

Attendance in Conferences

- 3rd National Conference of Environmental Council on "**Climate Change, Viable Growth and Renewable Energy Resources**", Aristotle University of Thessaloniki, Greece, 15 -17 Oct 2009
- Conference on **"Searching, Researching and exploitation of hydrocarbon deposits in Greece"**, Aristotle University of Thessaloniki, Thessaloniki, Greece, 16 Mar 2012