

Curriculum Vitae

DIMITRIS KARAGIANNIS

PERSONAL INFORMATION

Name: Dimitris Karagiannis
Date of Birth: 5/8/1978
Place of Birth: Athens, Greece
Home address: G. Gennimata 24, Vironas, 16231, Athens, Greece
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EDUCATION

2004 - 2007 **MSc Environmental Physics**
Aristotle University of Thessaloniki
Thesis: Experimental investigation of cloudiness spectral effect on
solar irradiance ground levels
1997 - 2003 **BSc Physics**
Aristotle University of Thessaloniki
Major in Atmospheric Physics
Thesis: Sensitivity test of solar ultraviolet radiation calculations using
LibRadtran model in ozone and aerosols changes

PROFESSIONAL EXPERIENCE

2020 – Present **Research Fellow at National Observatory of Athens in the
framework of the INFRASTRESS project.**

- Jun – Nov 2018 **Research Fellow at National Observatory of Athens in the framework of the THESPIA 2 project.**
Production of Typical Meteorological Years for 33 sites all over Greece. Comparison between solar energy models, databases and measurements.
- Feb – Apr 2016 **Research Fellow at National Observatory of Athens in the framework of the ARISTOTELES project.**
Improvement of NOA's solar energy model.
- May – Jul 2015 **Research Fellow at National Observatory of Athens in the framework of the KRIPIS-THESPIA project.**
Improvement of NOA's solar energy model.
- 2015 – 2020 **Physics & Mathematics courses to High School students.**
- 2008 – 2014 **Wind Engineer at renewable energy company.**
Wind measurements design & monitoring. Pre & post construction wind farm energy assessment. Wind turbines power curves study and inspection. O&M monitoring.
- 2007 – 2008 **Airman Meteorologist at Hellenic Air Force.**

RESEARCH FIELDS – INTERESTS

1. Air parcel trajectories modelling
2. Solar energy modelling
3. Meteorology & Climatology
4. Wind energy modelling & statistics

PUBLICATIONS

1. B.E.Psiloglou, H.D.Kambezidis, D.G.Kaskaoutis, **D.Karagiannis**, J.M.Polo, 2020.
Comparison between MRM simulations, CAMS and PVGIS databases with measured solar radiation components at the Methoni station, Greece. Renewable Energy, Volume 146, February 2020, Pages 1372-1391.
2. D.G.Kaskaoutis, U.C.Dumka, A.Rashki, B.E.Psiloglou, A.Gavrili, A.Mofidi, K.Petrinoli, **D.Karagiannis**, H.D.Kambezidis, 2019.
Analysis of intense dust storms over the eastern Mediterranean in March 2018: Impact on radiative forcing and Athens air quality. Atmospheric Environment, Volume 209, 15 July 2019, Pages 23-39.
3. D.G.Kaskaoutis, A.Rashki, U.C.Dumka, A.Mofidi, H.D.Kambezidis, B.E.Psiloglou, **D.Karagiannis**, K.Petrinoli, A.Gavrili, 2019.
Atmospheric dynamics associated with exceptionally dusty conditions over the eastern Mediterranean and Greece in March 2018. Atmospheric Research, Volume 218, 1 April 2019, Pages 269-284.

4. H.D.Kambezidis, B.E.Psiloglou, **D.Karagiannis**, U.C.Dumka, D.G.Kaskaoutis, 2017. Meteorological Radiation Model (MRM v6.1): Improvements in diffuse radiation estimates and a new approach for implementation of cloud products. Renewable and Sustainable Energy Reviews, Volume 74, July 2017, Pages 616-637.
5. H.D.Kambezidis, B.E.Psiloglou, **D.Karagiannis**, U.C.Dumka, D.G.Kaskaoutis, 2016. Recent improvements of the Meteorological Radiation Model for solar irradiance estimates under all-sky conditions. Renewable Energy, Volume 93, August 2016, Pages 142-158.

IT SKILLS

FORTRAN (Linux based platforms) – Modelling, statistical tools

WindPRO – Wind energy simulations

WindRose – Wind data statistics

Microsoft Office – Excel, Word, Power Point

etc.

LANGUAGES

English – Professional working proficiency

German – Elementary proficiency

Greek – Native