



Iliana Polychroni


Nationality: Greek

 (+30) 6947438120

Date of birth: 09/01/1987

Gender: Female

 **Email address:** ipolychroni@geol.uoa.gr

 **Address:** Eutuxidou 3, 11635 Athens (Greece)

WORK EXPERIENCE

Research Fellow

Biomedical Research Foundation of the Academy of Athens [06/2016 – 12/2016]

City: Athens

Country: Greece

Research Fellow in the frame of the research program «Environmental advantages of Greece in the field of the euphoria of tourists»

Research Fellow

Biomedical Research Foundation of the Academy of Athens [08/2017 – 06/2018]

City: Athens

Country: Greece

Research Fellow in the frame of the research program «GEO-CRADLE Coordinating and Integrating Regional, state-of-the-art Earth Observation Activities in NA, ME and Balkans and Developing Links with GEO related initiatives towards GEOSS»

Research Fellow

Laboratory of Climatology & Atmospheric Environment of National & Kapodistrian University of Athens [07/2018 – 10/2019]

City: Athens

Country: Greece

Research Fellow in the frame of the research program «Modelling the Vertical Structure of Tropical-like Mediterranean Cyclones using WRF Ensemble Forecasting and the impact of Climate Change (MEDICANE) (ESPA 2014-2020, EDBM34»

Research Fellow

Biomedical Research Foundation of the Academy of Athens [09/2018 – 12/2019]

City: Athens

Country: Greece

Research Fellow in the frame of the research program «ERA-PLANET: The European Network for Observing our Changing Planet».

Research Fellow

Research Centre for Atmospheric Physics and Climatology of the Academy of Athens [05/2020 – 09/2021]

City: Athens

Country: Greece

Research Fellow in the frame of the research program «CLIMPACT - NATIONAL NETWORK FOR CLIMATE CHANGE AND ITS IMPACT»

Research Fellow

Laboratory of Climatology & Atmospheric Environment of National & Kapodistrian University of Athens [12/2020 – 07/2021]

City: Athens

Country: Greece

Research Fellow in the frame of the research program «PANhellenic infrastructure for Atmospheric Composition and climatE chAnge (PANACEA)»

EDUCATION AND TRAINING

Bachelor of Science (B.Sc.) in Geology and Geo-environment

Department of Geology and Geoenvironment, National and Kapodistrian University of Athens [09/2004 – 03/2011]

Address: Athens (Greece)

<https://www.geol.uoa.gr/>

Master of Science (M.Sc.) in Geography and Environment

Department of Geology and Geoenvironment, National and Kapodistrian University of Athens [09/2011 – 11/2014]

Address: Athens (Greece)

<https://www.geol.uoa.gr/>

Master of Science (M.Sc.) in Water Resources Science & Technology : Specialization A : Hydrology and Environmental Management of Water Resources

National Technical University of Athens [09/2014 – 10/2016]

Address: Athens (Greece)

<http://postgrad.hydro.ntua.gr/en/>

PhD Candidate

Department of Geology and Geoenvironment, National and Kapodistrian University of Athens [12/2015 – Current]

Address: Athens (Greece)

<https://www.geol.uoa.gr/>

LANGUAGE SKILLS

Mother tongue(s): **Greek**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DIGITAL SKILLS

Microsoft Office / Microsoft Word / Microsoft Excel / Microsoft Powerpoint / Microsoft Access / R-project / Statistica / IBM SPSS / Arc GIS / Surfer

DRIVING LICENCE

Driving Licence: B

PUBLICATIONS

Nastos P.T. and Polychroni I.D. (2016), Modeling and in situ measurements of biometeorological conditions in microenvironments within the Athens University Campus, Greece. International Journal of Biometeorology, 60:1463-1479, DOI: 10.1007/s00484-016-1137-8.

[2016]

<https://link.springer.com/article/10.1007/s00484-016-1137-8>

Mylonas, M.P.; Douvis, K.C.; Polychroni, I.D.; Politi, N.; Nastos, P.T. (2019), Analysis of a Mediterranean Tropical-Like Cyclone. Sensitivity to WRF Parameterizations and Horizontal Resolution. Atmosphere 2019, 10, 425

[2019]

<https://www.mdpi.com/2073-4433/10/8/425>

Maniatis, S.; Nastos, P.T.; Moustris, K.; Polychroni, I.D.; Kamoutsis, A. (2020), Human thermal sensation over a mountainous area, revealed by the application of ANNs: the case of Ainos Mt., Kefalonia Island, Greece. Int J Biometeorol 64, 2033–2045 (2020). <https://doi.org/10.1007/s00484-020-01993-y>

<https://link.springer.com/article/10.1007%2Fs00484-020-01993-y>

Christos S. Zerefos, Stavros Solomos, John Kapsomenakis, Anastasia Poupkou, Lida Dimitriadou, Iliana D. Polychroni, Pavlos Kalabokas, Constandinos M. Philandras & Dimitris Thanos (2020), Lessons learned and questions raised during and post-COVID-19 anthropopause period in relation to the environment and climate. Environ Dev Sustain (2020). <https://doi.org/10.1007/s10668-020-01075-4>

[2020]

<https://link.springer.com/article/10.1007%2Fs10668-020-01075-4>

Charalampopoulos, I.; Polychroni, I.; Psomiadis, E.; Nastos, P. (2021) Spatiotemporal Estimation of the Olive and Vine Cultivations' Growing Degree Days in the Balkans Region. Atmosphere 2021, 12, 148. <https://doi.org/10.3390/atmos12020148>

[2020]

<https://www.mdpi.com/2073-4433/12/2/148>

FULL PAPERS IN CONFERENCE PROCEEDINGS

Polychroni I.D. and Nastos P.T. (2017), Annual Standardized Precipitation Index (SPI12) over the Mediterranean

11th International Hydrogeological Congress of Greece / Athens, Greece / 4-6 October 2017.

Polychroni I.D., Nastos P.T and Kapsomenakis J. (2018), Combined extreme climate indices over the Mediterranean region. Variability and trends analysis.

14th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2018/ Alexandroupolis, Greece/ 15-17 October 2018.

Mylonas M., Douvis K., Polychroni I.D., Politi N. and Nastos P.T (2018), Sensitivity analysis on a Mediterranean tropical - like cyclone over southwestern Greece.

14th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2018/ Alexandroupolis, Greece/ 15-17 October 2018.

Papazotos P., Polychroni I.D., Vasileiou E. and Perraki M. (2019) Leave-one-out cross validation method in hydrogeochemistry using GIS: A case study of Schinos village, NE Peloponnese, Greece.

Proceedings of the 15th International Congress of the Geological Society of Greece, Athens, May 2019.

Nastos P.T., Polychroni I.D., Charalampopoulos I., Varvaringou A. and Tsiros I. (2021) Urban green against built environment in terms of human thermal sensation in Athens, Greece.

15th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2021/ Hotel Du Lac, Ioannina, Greece/ 26-29 September 2021.

Douvis K., Polychroni I.D. and Nastos P.T (2021) A new method for the recognition and study of tropical-like cyclones over Mediterranean.

15th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2021/ Hotel Du Lac, Ioannina, Greece/ 26-29 September 2021.

CONFERENCES AND SEMINARS

Polychroni I.D. and Nastos P.T. (2014), Assessment of human thermal bioclimatic conditions in complex micro environments within the Athens University Campus, Greece.

14th EMS Annual Meeting & 10th European Conference on Applied Climatology (ECAC)/ Prague, Czech Republic/ 6-10 October 2014.

Polychroni I.D, Nastos P.T. and Baltas E. (2015), Trends and variability of joint distribution extreme climate indices over Greece.

15th EMS Annual Meeting & 12th European Conference on Applications of Meteorology (ECAM)/ Sofia, Bulgaria/ 7-11 September 2015.

Nastos P.T., Zerefos C.S., Kapsomenakis I. N., Eleftheratos K. and Polychroni I.D (2016), Human thermal comfort antithesis in the context of the Mediterranean tourism potential.

European Geosciences Union (EGU) / Vienna, Austria / 17-22 April 2016.

Hatzaki M., Nastos P., Polychroni I., Flocas H., Kouroutzoglou J. and Dalezios N. (2016), Association of joint occurrence of warm and dry conditions over Greece with anticyclonic activity during summer.

European Geosciences Union (EGU) / Vienna, Austria / 17-22 April 2016.

Polychroni I.D. and Nastos P.T. (2017), Standardized Precipitation Index (SPI) over the Mediterranean region based on high resolution gridded data.

European Geosciences Union (EGU) / Vienna, Austria / 23-28 April 2017.

Polychroni I.D and Nastos P.T. (2017), Weather patterns of joint modes of extreme climate indices over Greece.

EMS Annual Meeting: European Conference for Applied Meteorology and Climatology 2017/ Dublin, Ireland / 4-8 September 2017.

Mylonas M., Douvis K., Polychroni I.D., Politi N. and Nastos P.T. (2018), Ensemble forecasting and analysis of "Cleopatra" medicane by using AR-WRF model.

EMS Annual Meeting: European Conference for Applied Meteorology and Climatology 2018/ Budapest, Hungary/ 3-7 September 2018.

Polychroni I.D., Nastos P.T, Kapsomenakis J. and Hatzaki M. (2018), Combined extreme climate indices related to atmospheric circulation over the Mediterranean region.

EMS Annual Meeting: European Conference for Applied Meteorology and Climatology 2018/ Budapest, Hungary/ 3-7 September 2018.

Douvis K., Politi N., Mylonas M., Polychroni I.D. and Nastos P.T. (2018), WRF forecasting capability of a Tropical-like Cyclone in the Ionian Sea.

Medclivar 2018 Conference/ University of Belgrade, Belgrade, Serbia/ 18-21 September 2018.

Hatzaki M., Polychroni I.D., Nastos P.T., Kouroutzoglou J., Flocas H.A. and Rudeva I. (2018), The joint occurrence of extreme temperature and precipitation patterns associated with the synoptic systems activity over the Mediterranean.

America Geosciences Union AGU Fall Meeting/ Washington, D.C./ 10-14 December 2018.

Mylonas M., Polychroni I.D., Politi N., Douvis K. and Nastos P.T. (2019), The effect of WRF nudging techniques on fine-scale variability of a Mediterranean cyclone event.

European Geosciences Union (EGU) / Vienna, Austria / 7-12 April 2019.

Polychroni I.D., Hatzaki M., Nastos P.T., Kouroutzoglou J., Flocas H.A. and Rudeva I. (2019), Linking synoptic systems activity with the occurrence of combined extremes over the Mediterranean region.

EMS Annual Meeting 2019/ Copenhagen, Denmark/ 9-13 September 2019.

Nastos P.T., Polychroni I.D., Charalampopoulos I., Varvaringou A. and Tsiros I. (2019), Evaluation of human thermal sensation in a green-urban area of Athens, Greece. Modeling against mobile measurements.

EMS Annual Meeting 2019/ Copenhagen, Denmark/ 9-13 September 2019.

Douvis K., Polychroni I.D., Mylonas M., Politi N. and Nastos P.T. (2019), Thermodynamic structure of medicanes against hurricanes.

EMS Annual Meeting 2019/ Copenhagen, Denmark/ 9–13 September 2019.