



UNIVERSITY OF PATRAS

Curriculum Vitae

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Assistant Professor
Department of Sustainable Agriculture

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Personal data

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1. Education

- 1993** Physics Degree from the University of Ioannina, Greece
- 1999** M.Sc. Degree in Meteorology and Climatology from the University of Ioannina, Greece
- 2003** Ph.D. Degree in Atmospheric Physics from the Paul Sabatier University (Toulouse III), Toulouse, France
 Dissertation title: Biosphere – Atmosphere exchanges of Nitrogen oxides and Isoprene in the Mediterranean region (ESCOMPTE program)

2. Professional Experience

- 4/2015 – present** Assistant Professor, Department of Sustainable Agriculture (formerly Department of Environmental Engineering)*, University of Patras, Greece
- 6/2010 – 04/2015** Lecturer at the Department of Environmental & Natural Resources Management**, University of Patras, Greece
- 10/2009 – 6/2010** Visiting Lecturer, Department of Environmental & Natural Resources Management, University of Ioannina, Greece
- 3/2008 – 3/2009** Post doctoral fellow, Department of Physics, University of Crete, Greece (funded by Latsis Foundation)
- 10/2007 – 2/2008** Visiting Lecturer, Department of Geography, University of the Aegean, Greece

3/2004 – 8/2006 Post doctoral fellow, Department of Physics, University of Crete, Greece (funded by the PYTHAGORAS PROGRAM of the General secretariat of Research & Technology of Greece)

4/2003 – 2/2004 Post doctoral fellow, Environmental Research Laboratory, Foundation for Research and Technology – Hellas (FORTH), Greece (funded by the “European Surface Radiation Budget” program (<http://esrb.iesl.forth.gr>))

***Annotation: with the Article 2 par. 3 letter a) of the Presidential Decree 52/2022, Government Gazette 131/A/7.7.2022, the Department of Environmental Engineering of the Faculty of Engineering of the University of Patras merged with the Department of Sustainable Agriculture of the Faculty of Agricultural Sciences, established by Article 1, with headquarters in Agrinio. The students of the Department of Environmental Engineering, located in Agrinio, enrolled until the academic year 2021 - 2022, will continue and complete the program of studies of the Department of admission and will receive the corresponding degree.**

****The Department of Environmental and Natural Resources Management was founded in 1998 and it changed name in Environmental Engineering in May 2019 (Law 4610/2019, Government Gazette 70/7-5-2019 τ.Α')**

3. Research Interests

- Radiation energy budget at global regional and local scale
- Aerosol and cloud effect on radiation energy budget – climate change
- Estimation of Biosphere – Atmosphere energy and mass (chemical compounds) exchanges using micrometeorological techniques
- Boundary layer
- Climate and meteorological extreme events
- Urban climate

4. Authorship

I. PhD Thesis

“Biosphere – Atmosphere exchanges of Nitrogen oxides and Isoprene in the Mediterranean region (ESCOMPTE program)”, Thèse de Doctorat de l’ Université Paul Sabatier – Toulouse III, University Paul Sabatier (Toulouse III), Toulouse France, 2003.

II. MSc Thesis

“Study of Atmospheric Turbidity in Athens for the Period 1975-1995”, MSc program “Meteorology and Climatology”, University of Ioannina, Greece, 1999.

III. BSc Thesis

“Statistical Study of Temperature and Precipitation regime in Epirus and Corfu”, Department of Physics, University of Ioannina, Greece, 1993.

IV. Publications in peer-reviewed international journals

- 1 **Fotiadi, A.K.**, D.A., Metaxas, A., Bartzokas, (1999). A statistical study of precipitation in NW Greece. *International Journal of Climatology*, 19, 1221-1232.
[https://doi.org/10.1002/\(SICI\)1097-0088\(199909\)19:11<1221::AID-JOC436>3.0.CO;2-H](https://doi.org/10.1002/(SICI)1097-0088(199909)19:11<1221::AID-JOC436>3.0.CO;2-H)
- 2 Kambezidis, H.D., **A.K., Fotiadi**, B.D., Katsoulis, (2000). Variability of Linke and Unsworth-Monteith turbidity parameters in Athens, Greece. *Meteorology and Atmospheric Physics*, 75, 259-269.<https://doi.org/10.1007/s007030070008>
- 3 Hatzianastassiou, N., **A. Fotiadi**, C. Matsoukas, E. Drakakis, K. Pavlakis, D. Hatzidimitriou, and I. Vardavas, (2004). Long-term global distribution of Earth’s shortwave radiation budget at the top of atmosphere. *Atmospheric Chemistry and Physics*, 4, 1217-1235.
<https://doi.org/10.5194/acp-4-1217-2004>
- 4 **Fotiadi, A.K.**, F. Lohou, A. Druilhet, D. Serça, Y. Brunet, and R. Delmas, (2005). Methodological development on the conditional sampling method. Part I: sensitivity to statistical and technical characteristics. *Boundary-Layer Meteorology*, 114, 615-640.
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- 5 Michou, M., P. Laville, D. Serça, **A. Fotiadi**, P. Bouchou, and V.-H. Peuch, (2005). Measured and modelled dry deposition velocities over the ESCOMPTE area. *Atmospheric Research*, 74, 89-116. <https://doi.org/10.1016/j.atmosres.2004.04.011>
- 6 **Fotiadi, A.**, N. Hatzianastassiou, C. Matsoukas, K.G. Pavlakis, E. Drakakis, D. Hatzidimitriou, and I. Vardavas, (2005). Analysis of the decrease in the tropical mean outgoing shortwave radiation at the top of atmosphere for the period 1984-2000. *Atmospheric Chemistry and Physics*, 5, 1721-1730.
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<https://doi.org/10.5194/acp-5-2847-2005>
- 8 **Fotiadi, A.K.**, F. Lohou, A. Druilhet, D. Serça, F. Said, P. Laville and A. Brut, (2005). Methodological development on conditional sampling method (part II): quality control criteria for the definition of the application domain of the Relaxed Eddy Accumulation (REA) method. *Boundary-Layer Meteorology*, 117, 577-603.
<https://doi.org/10.1007/s10546-005-4497-x>
- 9 **Fotiadi, A.**, N. Hatzianastassiou, P.W. Stackhouse, C. Matsoukas, E. Drakakis, K.G. Pavlakis, D. Hatzidimitriou, and I. Vardavas, (2006). Spatial and Temporal Distribution of Long-Term Solar Surface Radiation Budget over Greece. *Quarterly Journal of Royal Meteorological Society*, 132, 2693-2718.<https://doi.org/10.1256/qj.05.163>
- 10 **Fotiadi, A.**, E. Drakakis, N. Hatzianastassiou, C. Matsoukas, D., K.G. Pavlakis, Hatzidimitriou, E. Gerasopoulos, N. Mihalopoulos and I. Vardavas, (2006). Aerosol physical and optical properties in the Eastern Mediterranean Basin, Crete, from Aerosol Robotic Network Data. *Atmospheric Chemistry and Physics*, 6, 5399-5413.

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 - 13 Hatzianastassiou, N., C. Matsoukas, **A. Fotiadi**, E. Drakakis, P.W. Stackhouse, P. Koepke, K.G. Pavlakis, D. Hatzidimitriou, and I. Vardavas, (2007). Modelling the direct effect of aerosols in the solar near-infrared on a planetary scale. *Atmospheric Chemistry and Physics*, 7, 3211-3229. <https://doi.org/10.5194/acp-7-3211-2007>
 - 14 Pavlakis K.G., N. Hatzianastassiou, C. Matsoukas, **A. Fotiadi**, I. Vardavas, (2008). ENSO surface shortwave radiation forcing over the tropical Pacific. *Atmospheric Chemistry and Physics*, 8, 5565-5577. <https://doi.org/10.5194/acp-8-5565-2008>
 - 15 Matsoukas C., N. Hatzianastassiou, **A. Fotiadi**, K.G. Pavlakis, and I. Vardavas, (2010). Arctic sea ice extent and its effect on the absorbed (net) solar flux at the surface, based on ISCCP-D2 cloud data for 1983–2007. *Atmospheric Chemistry and Physics*, 10, 777-787. <https://doi.org/10.5194/acp-10-777-2010>
 - 16 Papadimas C.D., **A.K. Fotiadi**, N. Hatzianastassiou, I. Vardavas, A. Bartzokas, (2010). Regional Covariability and Teleconnection Patterns in Surface Solar Radiation on a Planetary Scale. *International Journal of Climatology*, 30, 2314–2329. <https://doi.org/10.1002/joc.2031>
 - 17 Benas N., N. Hatzianastassiou, C. Matsoukas, **A. Fotiadi**, N. Mihalopoulos, I. Vardavas (2011). Aerosol shortwave daily radiative effect and forcing based on MODIS Level 2 data in the Eastern Mediterranean (Crete). *Atmospheric Chemistry and Physics*, 11, 12647-12662. <https://doi.org/10.5194/acp-11-12647-2011>
 - 18 Hatzianastassiou N., C.D. Papadimas, C. Matsoukas, K. Pavlakis, **A. Fotiadi**, M. Wild, and I. Vardavas (2012). Recent regional surface solar radiation dimming and brightening patterns: Inter-hemispherical asymmetry and a dimming in the Southern Hemisphere. *Atmospheric Science Letters*, 13: 43–48. <https://doi.org/10.1002/asl.361>
 - 19 Vardoulakis E., D. Karamanis, **A. Fotiadi**, G. Mihalakakou, (2013). The urban heat island effect in a small Mediterranean city of high summer temperatures and cooling energy demands. *Solar Energy*, 94, 128-144. <https://doi.org/10.1016/j.solener.2013.04.016>
 - 20 Tzavali A., J.A. Paravantis, G. Mihalakakou, **A. Fotiadi** and E. Stigka, (2015). Urban Heat Island Intensity: A Literature Review. *Fresenius Environmental Bulletin*, 24 (12b), 4537-4554.
 - 21 Houssos E.E., T. Chronis, **A. Fotiadi**, F. Hossain, (2015). Atmospheric Circulation Characteristics Favoring Dust Storm Outbreaks over the Solar Village. *Monthly Weather Review*, 143, 3263-3275. <https://doi.org/10.1175/MWR-D-14-00198.1>
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- 24 Bakas N.A., **A. Fotiadi**, S. Kariofillidi., (2020). Climatology of the Boundary Layer Height and of the Wind Field over Greece. *Atmosphere*, 11, 910. <https://doi.org/10.3390/atmos11090910>
- 25 Perivoliotis D., I. Arvanitis, A. Tzavali, V. Papakostas, S. Kappou, G. Andreakos, **A. Fotiadi**, J.A. Paravantis, M. Souliotis, G. Mihalakakou, (2023). Sustainable Urban Environment through Green Roofs: A Literature Review with Case Studies. *Sustainability*, 15, 15976. <https://doi.org/10.3390/su152215976>
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V. Conferences

- 1 **Fotiadi A.K.**, D.A. Metaxas, A. Bartzokas, (1996): Statistical study of precipitation regime in NW Greece. *Proceedings of the 3rd Panhellenic Conference of Meteorology, Climatology and Atmospheric Physics*, 25-27 September 1996 Athens, 52-61 (in Greek).
- 2 Kambezidis H.D., **Fotiadi A. K.**, Katsoulis B.D., (1999): Variability of Atmospheric Turbidity in Athens, Greece. *ISES Solar World Congress*, Jerusalem, Israel, July 4-9, 1999.
- 3 **Fotiadi A.**, F. Lohou, A. Druilhet, et D. Serça, (2002): Etude de la méthode d'échantillonnage conditionnel (REA) pour la mesure des flux de constituants en trace. *Proceedings de l'Atelier Expérimentation et Instrumentation*, 29-30 Janvier, 2002, Toulouse, France, Météo-France, INSU (in French).
- 4 Bouchou P., A. Lopez, J.M. Brustet, A. Druilhet, J. Fontan, **A. Fotiadi**, D. Serça. (2002): Quantification and parameterisation of ozone and particle deposition at vegetation-atmosphere interface during ESCOMPTE campaign. *European Geophysical Society 27th General Assembly*, Nice 21-26 April, 2002.
- 5 **Fotiadi A.**, F. Lohou, D. Serça, A. Druilhet, P. Laville, P. Bouchou, A. Lopez. (2002): Methodological development on conditional sampling method: application to NO_x fluxes measured during the ESCOMPTE campaign. *European Geophysical Society 27th General Assembly*, Nice 21-26 April, 2002.
- 6 Cortinovis, J., D., Serça, **A. Fotiadi**, P., Bouchou, F., Solmon, F., Lohou, A., Lopez, and R., Rosset (2002): Impact of isoprene emissions on O₃ chemistry at the local and regional scales: the ESCOMPTE experiment. *7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC) on: Atmospheric Chemistry within the Earth*

- System: From Regional pollution to Global Climate Change*, 18–25 September 2002, Crete, Greece.
- 7 **Fotiadi, A.**, D. Serça, P. Laville, F. Lohou, A. Brut, A. Lopez, A. Druilhet and R. Delmas (2002): Exchanges of nitrogen oxides and ozone over a maize field during the ESCOMPTE campaign. *7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC) on: Atmospheric Chemistry within the Earth System: From Regional pollution to Global Climate Change*, 18–25 September 2002, Crete, Greece.
 - 8 Brut A., D. Legain, P. Durand, P. Laville, **A. Fotiadi**, D. Serça, (2002): Use of the R.E.A. technique to measure scalar fluxes on ground-based and mobile platform: *In the proceedings of the 15th symposium on Boundary Layer and Turbulence*, 15- 19 of July 2002, Wageningen, The Netherlands, AMS Ed.
 - 9 Serça, D., **A. Fotiadi**, P., Bouchou, and J., Cortinovis (2003): Isoprene emissions at the canopy scale: measurements in the ESCOMPTE program. *EGS – AGU – EUG Joint Assembly*, Nice, France, 6-12 April, 2003.
 - 10 **Fotiadi A.**, D. Serça, R. Delmas, P. Laville, A. Brut, F. Lohou, and A. Druilhet (2003): Biosphere–atmosphere exchanges of nitrogen oxides (NO_x) in the ESCOMPTE zone. *5th ESCOMPTE, Workshop*, 26-28 May 2003, Toulouse, France.
 - 11 **Fotiadi A.**, D. Serça, J. Cortinovis, F. Solmon, and A. Druilhet (2004): Isoprene emissions at the canopy scale of an oak Mediterranean forest (ESCOMPTE program). *13th International Workshop ‘European Vegetation Survey’*, 15-20 April 2004, Ioannina-Greece.
 - 12 **Fotiadi A.**, G. Habilomatis, C. Matsoukas, K.G. Pavlakis, E. Drakakis, D. Hatzidimitriou, N. Hatzianastassiou, and I. Vardavas (2004): The solar surface radiation budget at the Greek area for the period 1984-2000. *Proceedings of the 7th Panhellenic (International) Conference on Meteorology, Climatology and Atmospheric Physics*, 28-30 September 2004 Cyprus, 607-618 (in Greek).
 - 13 Hatzianastassiou N., C. Matsoukas, **A. Fotiadi**, I. Vardavas (2006): Modelling the direct effect of aerosols on near-infrared solar radiation on a global scale. *European Geosciences Union, General Assembly 2006*, Vienna, Austria, April 02-07 2006.
 - 14 Matsoukas C., K.G. Pavlakis, N. Hatzianastassiou, E. Drakakis, **A. Fotiadi**, D. Hatzidimitriou, P.W. Stackhouse, I. Vardavas (2006): Global distribution of 10-year daily mean shortwave and longwave radiation at one degree spatial resolution. *European Geosciences Union, General Assembly 2006*, Vienna, Austria, April 02-07 2006.
 - 15 **Fotiadi A.**, E. Drakakis, N. Hatzianastassiou, C. Matsoukas, I. Vardavas (2006): Aerosol properties in the eastern Mediterranean based on the AERONET station at FORTH/Crete. *European Geosciences Union, General Assembly 2006*, Vienna, Austria, April 02-07 2006.
 - 16 **Fotiadi A.**, A. Druilhet, P. Bouchou, D. Serça, A. Lopez, A. Mariscal (2006): Energy budget, dynamic and turbulent conditions during the summer-time period over three typical Mediterranean ecosystems. *Proceedings of the 8th Conference on Meteorology, Climatology and Atmospheric Physics*, 24-26 May 2006, Athens, 289-300 (in Greek).
 - 17 **Fotiadi A.**, N. Hatzianastassiou, E. Drakakis, C. Matsoukas, K.G. Pavlakis, D. Hatzidimitriou, N. Michalopoulos, and I. Vardavas, (2006): Aerosol optical properties in Crete (eastern Mediterranean). Μελέτη των οπτικών ιδιοτήτων των αερολυμάτων στην Κρήτη (Ανατολική Μεσόγειος). *Proceedings of the 8th Conference on Meteorology, Climatology and Atmospheric Physics*, 24-26 May 2006, Athens, 301-313 (in Greek).

- 18 Hatzianastassiou N., C.D. Papadimas, **A.K. Fotiadi**, and A. Bartzokas, (2006): A study on spatial and temporal variability of solar radiation on global scale. *Proceedings of the 8th Conference on Meteorology, Climatology and Atmospheric Physics*, 24-26 May 2006, Athens, 355-368 (in Greek).
- 19 Hatzianastassiou N., **A. Fotiadi**, C. Papadimas, Ch. Matsoukas, E. Drakakis, D. Hatzidimitriou, I. Vardavas, (2006): The aerosol effect on solar radiation in the eastern Mediterranean. *Proceedings of the 8th Conference on Meteorology, Climatology and Atmospheric Physics*, 24-26 May 2006, Athens, 369-383 (in Greek).
- 20 **Fotiadi A.**, N. Hatzianastassiou, C. Matsoukas, K. Pavlakis, C. Papadimas, and I. Vardavas, (2008): Coarse and Fine Aerosol Episodes Based on Measurements from the AERONET Station Crete (Eastern Mediterranean during the 4-Year Period (2003-2006)). *Proceedings of the 9th Conference of Meteorology, Climatology and Atmospheric Physics (COMECAP)*, 28-31 May 2008, Thessaloniki, 789-796 (in Greek).
- 21 **Fotiadi A.**, N. Hatzianastassiou, N. Benas, C. Matsoukas, and I. Vardavas (2008): Aerosol solar radiative effect during fine and coarse aerosol events in the eastern Mediterranean (Crete). European Aerosol Conference (EAC 2008), Thessaloniki, Greece August 24-29, 2008.
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- 24 Hatzianastassiou N., C.D. Papadimas, C. Matsoukas, K. Pavlakis, **A. Fotiadi**, M. Wild, I. Vardavas (2012): Features and causes of recent surface solar radiation dimming and brightening patterns. *European Geosciences Union, General Assembly 2012*, Vienna, Austria, April 22-27, 2012.
- 25 Benas N., N. Hatzianastassiou, C. Matsoukas, **A. Fotiadi**, N. Mihalopoulos, and I. Vardavas, (2012): Aerosol Shortwave Direct Radiative Effect and Forcing Based on MODIS Level 2 Data in the Eastern Mediterranean (Crete). *Proceedings of the 11th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012*, Athens, 29 May – 1 June 2012: C.G. Helmis and P.T. Nastos (eds.), *Advances in Meteorology, Climatology and Atmospheric Physics*, Springer Atmospheric Sciences, DOI 10.1007/978-3-642-29172-2_128, Springer-Verlag Berlin Heidelberg 2012, 917-922.
- 26 Stathopoulos V., **A. Fotiadi**, E.E. Houssos, N. Hatzianastassiou, and I. Vardavas, (2012): Day to day variability of Air Temperature over Greece for the Period 1957-2002. *Proceedings of the 11th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012*, Athens, 29 May – 1 June 2012: C.G. Helmis and P.T. Nastos (eds.), *Advances in Meteorology, Climatology and Atmospheric Physics*, Springer Atmospheric Sciences, DOI 10.1007/978-3-642-29172-2_128, Springer-Verlag Berlin Heidelberg 2012, 737-742.
- 27 Pyrina M., C.D. Papadimas, **A. Fotiadi**, C. Matsoukas, N. Hatzianastassiou, and I. Vardavas, (2012): Cloud Radiative Effects on Solar Radiation Over the Eastern Mediterranean Basin from 1984 to 2007. *Proceedings of the 11th International*

- Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012*, Athens, 29 May – 1 June 2012: C.G. Helmis and P.T. Nastos (eds.), *Advances in Meteorology, Climatology and Atmospheric Physics*, Springer Atmospheric Sciences, DOI 10.1007/978-3-642-29172-2_128, Springer-Verlag Berlin Heidelberg 2012, 693-699.
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- 33 Houssos E.E., **A. Fotiadi** and C.J. Lolis, (2016): Atmospheric Circulation Characteristics Favoring Wet Season Prolonged Spatially Extended Dry Spells in Greece, *Perspectives on Atmospheric Sciences (Proceedings of COMECAP 2016, Thessaloniki 19-21 September 2016, Eds. T.S Karacostas, A.F. Bais, P.T. Nastos)*, Springer Atmospheric Sciences, vol. 1, 497-502.
- 34 Laosoglou T., N. Hatzianastassiou, N. Benas, **A. Fotiadi**, C. Matsoukas, and I.M. Vardavas (2016): Study of the Total and Ultraviolet Solar Radiation in the Alpine Region of Ioannina (Northwestern Greece), *Perspectives on Atmospheric Sciences (Proceedings of COMECAP 2016, Thessaloniki 19-21 September 2016, Eds. T.S Karacostas, A.F. Bais, P.T. Nastos)*, Springer Atmospheric Sciences, vol. 2, 1199-1205.
- 35 Georgakaki P., C.D. Papadimas, N. Hatzianastassiou, **A. Fotiadi**, C. Matsoukas, P. Stackhouse, M. Kanakidou, and I.M. Vardavas (2016): Direct Effect of Aerosols on Solar Radiation over the Eastern Mediterranean Basin on a Daily 1° by 1° Resolution, *Perspectives on Atmospheric Sciences (Proceedings of COMECAP 2016, Thessaloniki 19-21 September 2016, Eds. T.S Karacostas, A.F. Bais, P.T. Nastos)*, Springer Atmospheric Sciences, vol. 2, 1215-1221.
- 36 Georgakaki P., C.D. Papadimas, N. Hatzianastassiou, **A. Fotiadi**, C. Matsoukas, P. Stackhouse, M. Kanakidou, and I.M. Vardavas (2017): Aerosol direct effect on solar radiation over the eastern Mediterranean Sea based on AVHRR satellite measurements. *Geophysical Research Abstracts, Vol. 19, EGU2017-18367*, EGU General Assembly, Vienna, Austria, 23-28 April, 2017.
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- causes from a satellite perspective. *Geophysical Research Abstracts*, Vol. 19, EGU2017-1420-3, EGU General Assembly, Vienna, Austria, 23-28 April, 2017.
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- 40 Alatsaris M., F. Xystrakis, **A. Fotiadi**, and N. Koutsias (2018): On the relationships between wildfires and Bagnouls-Gausse's ombrothermic diagram during the period 1961-1997 in Greece. *Geophysical Research Abstracts*, Vol. 20, EGU2018-12023-1, EGU General Assembly, Vienna, Austria, 8-13 April, 2018.
- 41 Ioannidis E., N. Hatzianastassiou, C.D. Papadimas, N. Benas, **A. Fotiadi**, C. Matsoukas, M. Wild, and I.M. Vardavas (2018): Global downward surface solar radiation tendencies in the first decade of 2000s. *Proceedings of the 14th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2018)*, October 15-17, 2018 Alexandroupolis, Greece, 260-265.
- 42 Manthos I., I. Tasioula, E. Houssos, N. Koutsias, N. Hatzianastassiou and **A. Fotiadi**, (2018): The regime of fires in southern Europe based on satellite data and the atmospheric conditions associated with severe events, *Proceedings of the 14th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2018)*, October 15-17, 2018 Alexandroupolis, Greece, 420-425.
- 43 Karyofyllidi S., **A. Fotiadi**, and N.A. Bakas (2018): Climatology of the boundary layer over Greece, *Proceedings of the 14th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2018)*, October 15-17, 2018 Alexandroupolis, Greece, 746-751.
- 44 Manthos I., Houssos E.E., Koutsias N., Hatzianastassiou N., and Fotiadi A. (2019): Atmospheric Circulation Characteristics associated with wildfires occurrence in the Mediterranean Basin. *Geophysical Research Abstracts*, Vol. 21, EGU2019-10532-1, EGU General Assembly, Vienna, Austria, 7-12 April, 2019.
- 45 Manthos I., Hatzianastassiou N., Fotiadi A., Houssos E.E., and Koutsias N (2019): An assessment of Biomass Burning Aerosol Optical Properties over the Mediterranean Basin based on Satellite Data. *Geophysical Research Abstracts*, Vol. 21, EGU2019-12851, EGU General Assembly, Vienna, Austria, 7-12 April, 2019.
- 46 Doule G.T., **Fotiadi A.K.**, Chaskos D.C., Sindosi O.A., Bartzokas A. (2021): A study on the sea breeze characteristics at the coast of Epirus, NW Greece. *Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2021)*, ISBN 978-960-233-267-2, Ioannina, 26-29 September 2021, 762-766.
- 47 Manthos I., Houssos E.E., Papadimas C.D., Hatzianastassiou N., Koutsias N., **Fotiadi A.** (2021): Biomass Burning Aerosol Optical Properties associated with wildfires over the Mediterranean Basin based on Satellite Data. *Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2021)*, ISBN 978-960-233-267-2, Ioannina, 26-29 September 2021, 97-101.

5. Reviewer of International peer-reviewed Journals

- Atmospheric Chemistry and Physics

- Atmospheric Measurement Techniques
- Atmospheric Research
- International Journal of Climatology
- International Journal of Global Environmental Issues
- International Journal of Low-Carbon technologies
- Journal of Geophysical Research
- Meteorology and Atmospheric Physics
- Natural Hazards and Earth System Sciences
- Science of the Total Environment
- Theoretical and Applied Climatology

6. Participation in Research Projects

- 1998-1999:** “An Estimation of the measures for the restoration of Pamvotis Lake, Ioannina”, funded by the Ioannina Municipality, Greece.
- 2000-2002:** “The ESCOMPE program”, funded by the French government.
- 2003-2004:** “European Component of GEWEX Surface Radiation Budget (ESRB)”, <http://esrb.iesl.forth.gr>, 5th Framework Program, European Commission
- 2004-2006:** “The Impact of Aerosol Radiative Forcing on the Energy and Water Budget of the Eastern Mediterranean”, funded by the Greek Secretariat of Research and Technology, Program “Pythagoras II”
- 2008-2009:** “Water resources of Greece under changing climatic conditions”, funded by I. Latsis Foundation, Greece
- 2016-2019:** “A comprehensive assessment of Biomass Burning AeroSol optical properties and direct radiative effect over the MEDiterranean basin (BBIAS-MED)”, funded by the Research Committee of the University of Patras via “C. CARATHEODORI” supporting program of basic research (principal Investigator)

7. Educational Activities

I. Independent Teaching of Undergraduate Courses

Scientific associate at School of Agricultural Technology, Technological Educational Institute of Epirus

- 2004-2006:** **Agrometeorology**, School of Agricultural Technology, Technological Educational Institute of Epirus, Greece

Adjunct Lecturer at the Department of Geography, University of the Aegean, Greece

2007-2008: **Physical Geography I – Climatology**, core course
 General Meteorology, core course

Faculty staff at the Department of Environmental & Natural Resources Management, University of Patras, Greece

2009-2014: **General Meteorology**, core course of Fall Semester
 Climatology, core course of Spring Semester
 Environmental Physics, core course of Spring Semester (in collaboration)

2009-2019: **Air Pollution**, core course of Fall Semester
 Greenhouse effect and Climate change, optional course of Fall Semester

2012 – 2013 **Introduction to the Science of Environmental Engineering**, core course of Fall Semester (in collaboration)

2014 – 2019 **Meteorology – Climatology**, core course of Fall Semester

2014 – 2019 **Environmental Physics II**, core course of Spring Semester (in collaboration)

2015 – 2016 **Environmental Physics I**, core course of Fall Semester (in collaboration)

2017 – 2018 **Environmental Education**, core course of Fall Semester (in collaboration)

Faculty staff at the Department of Environmental Engineering, University of Patras, Greece

2022 – 2023 **Physics**, core course of the Department of Food Science and Technology, Fall Semester

2022 – 2024 **Atmospheric Physics**, core course of Fall Semester
 Air Pollution, mandatory elective course of Spring Semester
 Greenhouse effect and Climate change, elective course of Spring Semester

2022 – 2025 **Environmental Education & Ethics**, elective course, Fall Semester

II. Independent Teaching of Postgraduate Courses

Teaching in the framework of the M.Sc. program «Applications of Environmental Protection and Management» of the Environmental & Natural Resources Management Department:

2015 – 2017 Part of the course “**Ecosystems and Environmental Risks**”
 Part of the course “**Managing & Communicating Environmental Projects**”

III. Supervision of Diploma Thesis

Supervision of **39** (thirty-nine, **34 completed**) Diploma thesis, Department of Environmental & Natural Resources Management / Environmental Engineering, University of Patras, Greece during the academic years 2009 – 2025.

Co-supervision of one (**1**) undergraduate student degree dissertation, Department of Geography, University of the Aegean, Greece (2007 – 2008)

Co-supervision of one (**1**) undergraduate student degree dissertation, Department of Physics, University of Ioannina, Greece (2016 – 2017)

IV. Supervision of Master Thesis

2016 - 2017 **Grigoriou Vasiliki**: Study of the Spatial and Temporal Variations of the total Ozone Column over Eastern Mediterranean using Satellite Data during the period 2005-2016, Department of Environmental & Natural Resources Management, University of Patras

2017 - 2018 **Tasioula Ioannna**: Analysis of biomass burning (wildfire) episodes in the Mediterranean region and study of the atmospheric circulation associated with their occurrence, Department of Environmental & Natural Resources Management, University of Patras

2019 – 2023 **Doule Garyfallia**: Study of the Sea Breeze circulation at the coast of Epirus, MSc Program “Atmospheric Sciences & Environment”, Department of Physics, University of Ioannina (Co-supervision with Prof. A. Bartzokas)

V. Participation in Three-Member Examining Committees for Master Theses

2013 **Pyrina Maria**: Cloud radiative effect on thermal radiation budget at global scale during the period 1984-2007, MSc Program “Atmospheric Sciences & Environment”, Department of Physics, University of Ioannina (Supervisor: Professor N. Hatzianastassiou)

2014 **Kagkara Christina**: Changes in physical properties of warm clouds due to changes in aerosol properties and their direct effect on solar radiation, MSc Program “Atmospheric Sciences & Environment”, Department of Physics, University of Ioannina (Supervisor: Professor N. Hatzianastassiou)

2016 **Laosoglou Thaleia**: Simulation of total and UV Solar Radiation at Ioannina Basin with a Numerical Spectral Radiative Transfer Model. Model Validation and study of the factors affecting solar radiation, MSc Program “Atmospheric Sciences & Environment”, Department of Physics, University of Ioannina (Supervisor: Professor N. Hatzianastassiou)

2017 **Kalaitzi Nikoleta**: Algorithm development for characterizing biomass burning aerosols at a global scale using satellite data, MSc Program “Atmospheric Sciences & Environment”, Department of Physics, University of Ioannina (Supervisor: Professor N. Hatzianastassiou)

2018 **Valogiannis Spyridon**: The contribution of the Common Agricultural Policy (CAP) to environment proper management and the preservation of rural landscape in Greece, MSc Program «Applications of Environmental

- Protection and Management» Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor G. Kechayias)
- 2018 **Politis Ilias:** Study of environmental sensors integration in Wind Turbines, MSc Program «Applications of Environmental Protection and Management» Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor D. Karamanis)
- 2021 **Tsioumitas Konstantinos:** Use of MODIS-L2 satellite data to calculate solar radiation fluxes in Central Mediterranean (Lampedusa Island). Validation and comparison with solar radiation fluxes estimated from ground-based cloud data, MSc Program “Atmospheric Sciences & Environment”, Department of Physics, University of Ioannina (Supervisor: Professor N. Hatzianastassiou)

VI. Participation in Three-Member Advisory Committees for Doctoral Theses

- 2014 – 2017 Skandalos Nikolaos: Study of the thermal and optical performance of building integrated Si photovoltaics, Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor D. Karamanis)
- 2023 - Andreakos Georgios: Analysis of the Urban Heat Island in Greece using the ecological footprint method, Department of Sustainable Agriculture, University of Patras (Supervisor: Professor P. Michalakakou) (ongoing)

VII. Participation in Seven-Member Examining Committees for Doctoral Theses

- 2011 **Boemi Natalia - Sofia:** Contribution to the environmental and energy management of the hotel stock. Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor P. Michalakakou)
- 2013 **Dimitriou Konstantinos:** PM10 and PM2.5 Particulate Matter in Europe: Local Sources - Atmospheric Transport - Impacts on Air Quality. Department of Physics, University of Ioannina (Supervisor: Professor P. Kassomenos)
- 2013 **Vardoulakis Eftychios:** Study of energy materials and mild building cooling methods to mitigate urban heat island phenomenon and save energy. Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor D. Karamanis)
- 2014 **Stigka Eleni:** Contribution to the investigation of the economic and political perspectives for Renewable Energy Sources development in Western Greece. Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor P. Michalakakou)
- 2014 **Prodromidis Georgios:** Mathematical simulation and optimization of a stand alone zero emission hybrid system based on renewable energy sources. Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor F. Coutelieris)

- 2015 **Tzavali Anna**: Urban Heat Island: Analysis of the phenomenon in Attica region and investigation of its impact on energy performance of school buildings. Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor P. Michalakakou)
- 2015 **Gorgolis Georgios**: Solar cooling of outdoor spaces using moisture adsorption materials. Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor D. Karamanis)
- 2015 **Kapsalis Vasileios**: Solar thermal energy storage and heat pumps with phase change materials. Department of Environmental & Natural Resources Management, University of Patras (Supervisor: Professor D. Karamanis)
- 2023 **Ntourmas Vasileios**: "Analysis of Socioeconomic Impacts of International Energy and Environmental Policies". Department of Sustainable Agriculture (former Department of Environmental Engineering), University of Patras, (Supervisor: Professor P. Michalakakou)
- 2025 **Chaskos Dimitrios**: Study of the dependence of meteorological parameters forecasting on weather types in Northwest Greece and investigation of potential improving. Department of Physics, University of Ioannina (Supervisor: Professor C. Lolis)
- Ongoing **Kappou Sofia**: Investigation of Thermal Comfort on Cool Pavements in the broader area of Athens. Department of Sustainable Agriculture (former Department of Environmental Engineering), University of Patras, (Supervisor: Professor P. Michalakakou)
- Ongoing **Mytakis Dionisios**: exergoeconomic analysis of autonomous hybrid systems. Department of Sustainable Agriculture (former Department of Environmental Engineering), University of Patras, (Supervisor: Professor F. Coutelieris)

8. Administration

2010-present: Participation in several committees of the Department of Environmental and Natural Resources Management· then, of the Department of Environmental Engineering and since 2022 of the Department of Sustainable Agriculture

2013 -2015: Responsible for the management of the Department budget

9. Personal Skills and Interests

Languages

- Greek (mother language)
- English
- French

Computer Knowledge

- Microsoft Windows/office, Unix, Linux
- Fortran, PV-wave
- SPSS

Member of scientific associations

- Hellenic Physical Society (1994 – 1999)
- Hellenic Meteorological Society (EMTE)
- European Geosciences Union (EGU)

Others

- Member of cultural and social associations
- Hobbies: Dance, Creative writing
- Member of the Direction of the Epirus Metal Industry SA (MBH) during the period 08/2010 – 09/2013