

Dimitris K. Papanastasiou – Assistant Professor

Department of Environmental Sciences, University of Thessaly, Greece

Short Curriculum Vitae

Personal Information

Sex: Male | Nationality: Greek | Email: dkpapan -at- uth.gr

Education

- BSc in Physics (minimum duration of studies: 4 years), Aristotle University of Thessaloniki, Greece, 1995
- MSc in Environmental Physics, Aristotle University of Thessaloniki, Greece, 2000
- PhD in Atmospheric Pollution and Meteorology, Aristotle University of Thessaloniki, Greece, 2007

Current Academic Position

Assistant Professor, Department of Environmental Sciences, School of Technology, University of Thessaly, Greece
Expertise: Atmospheric pollution, meteorology, and emissions to the air, in urban and rural environment

Research Interests

- Monitoring and analysis of atmospheric pollution levels, meteorological parameters, levels of thermal comfort of humans and animals, air quality and climatic conditions in agricultural buildings
- Urban heat island
- Emissions of atmospheric pollutants and greenhouse gases, environmental impact assessment
- Environmental education and training

Publications

- In peer-reviewed international scientific journals: 32
For the full list, please go to page 2
- In International scientific conferences: 38
- In National scientific conferences: 34
- In technical journal: 1
- Third Party Citations*: > 580 , h-Index*: 12
* Source: Scopus, self-citations of all authors were excluded

Foreign Languages

English (level C2), French (level B2), German (level B1)

Work experience

Teaching

- 2021 – today: Assistant Professor, University of Thessaly, Greece
- 2007 – 2021: Lecturer under contract, University of Thessaly, Greece
- 2013 – today: Collaborating Educational Staff in Postgraduate Programmes, Hellenic Open University, Greece
- Principal Supervisor of 21 postgraduate students' theses, member of the evaluation committee of 25 more postgraduate students' theses
- 2001 – 2013: Lecturer and Assistant Professor under contract, Technological Educational Institutes of Thessaloniki, West Macedonia (Kozani), and Larissa, Greece
- Principal Supervisor of 12 undergraduate students' theses, member of the evaluation committee of 3 more undergraduate students' theses
- 2010 – 2020: Adult Trainer, Foundation for Youth and Lifelong Learning, Greece

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Research

- 2020 – today: Researcher, University of Thessaly, Greece
- 2007 – today: Researcher, Institute of Bio-economy and Agri-technology, Centre for Research and Technology Hellas, Greece
- 2010 – 2014: Researcher, Aristotle University of Thessaloniki, Greece
- Participation in 27 research, development, and networking projects
For an indicative list, please go to page 4

Other

- 2018 – 2020: Associate to support municipalities and their stakeholders in environmental projects, Hellenic Agency for Local Development and Local Government, Greece
- 1994 – 2000: Insurance Counsellor to assess the hazard possibility of special insurance contracts

Additional Information

- COST action No 20108, FAIRNESS (Fair Network of Micrometeorological Measurements), Member of the Management Committee
- CIGR (International Commission of Agricultural and Biosystems Engineering):
 - Member of Technical Section II (Structures and Environment)
 - Technical Section II (Structures and Environment), Member of the Working Group on Animal Housing in Hot Climates
- Reviewer in 20 international scientific journals and Guest Editor in a special issue of an international scientific journal
- Member of the scientific committee of 7 conferences
- Certified Adult Trainer and Trainer of Adult Trainers, by the National Organization for the Certification of Qualifications & Vocational Guidance

Publications in peer-reviewed international scientific journals – Full list

1. **Papanastasiou DK**, Melas D, Kioutsioukis I, 2007. Development and assessment of neural network and multiple regression models in order to predict PM10 levels in a medium-sized Mediterranean city. *Water, Air and Soil Pollution* 182, 325 – 334.
2. **Papanastasiou DK**, Melas D, 2008. Daily Ozone Forecasting in an Urban Area, using Meteorological & Pollution Data. *Fresenius Environmental Bulletin* 17 (3), 364 – 370.
3. **Papanastasiou DK**, Melas D, 2009. Statistical Characteristics of Ozone and PM10 Levels in a Medium Sized Mediterranean City. *International Journal of Environment and Pollution* 36 (1/2/3), Special Issue on Air Pollution, 127 – 138.
4. **Papanastasiou DK**, Melas D, 2009. Climatology and impact on air quality of sea breeze in an urban coastal environment. *International Journal of Climatology* 29, 305 – 315.
5. Georgoulas A, **Papanastasiou DK**, Melas D, Amiridis V, Alexandri G, 2009. Statistical analysis of boundary layer heights in a suburban environment. *Meteorology and Atmospheric Physics* 104, 103 – 111.
6. **Papanastasiou DK**, Melas D, 2010. Application of PM10's statistical distribution to air quality management – a case study in central Greece. *Water, Air and Soil Pollution* 207, 115 – 122.
7. **Papanastasiou DK**, Melas D, Bartzanas T, Kittas C, 2010. Temperature, comfort and pollution levels during heat waves and the role of sea breeze. *International Journal of Biometeorology* 54, 307 – 317.
8. **Papanastasiou DK**, Poupkou A, Katragkou E, Amiridis V, Melas D, Mihalopoulos N, Basart S, Pérez C, Baldasano JM, 2010. An assessment of the efficiency of dust regional modelling to predict Saharan dust transport episodes. *Advances in Meteorology*, vol. 2010, Article ID 154368, 9 pages, 2010. doi:10.1155/2010/154368.
9. **Papanastasiou DK**, Melas D, Lissaridis I, 2010. Study of wind field under sea breeze conditions; an application of WRF model. *Atmospheric Research*. 98, 102–117.

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10. **Papanastasiou DK**, Fidaros D, Bartzanas T, Kittas C, 2011. Monitoring particulate matter levels and climate conditions in a Greek sheep and goat livestock building. *Environmental Monitoring & Assessment* 183, 285 – 296.
11. Poupkou A, Zanis P, Nastos P, **Papanastasiou D**, Melas D, Tourpali K, Zerefos C, 2011. Present climate trend analysis of the Etesian winds in the Aegean Sea. *Theoretical and Applied Climatology* 106, 459 – 472.
12. Banja M, **Papanastasiou DK**, Poupkou A, Melas D, 2012. Development of a short-term ozone prediction tool in Tirana area based on meteorological variables. *Atmospheric Pollution Research* 3, 32 – 38.
13. **Papanastasiou DK**, Kittas C, 2012. Maximum urban heat island intensity in a medium sized coastal Mediterranean city. *Theoretical and Applied Climatology* 107, 407 – 416.
14. **Papanastasiou DK**, Melas D, Bartzanas T, Kittas C, 2012. Estimation of ozone trend in central Greece based on meteorologically adjusted time series. *Environmental Modeling & Assessment* 17, 353 – 361.
15. Ikonomidis S, **Papanastasiou D**, Melas D, Avgoloupis S, 2012. The anthropogenic “Greenhouse Effect”: Greek prospective primary teachers’ ideas about causes, consequences and cures. *Journal of Science Education and Technology* 21, 768 – 779.
16. **Papanastasiou DK**, Fidaros D, Bartzanas T, Kittas C, 2013. Impact of urban heat island development on buildings’ energy consumption. *Fresenius Environmental Bulletin* 22 (7a), 2087 – 2092.
17. **Papanastasiou DK**, Avgoloupis S, Melas D, Ikonomidis S, 2014. Future primary teachers’ knowledge and understanding of environmental quality issues – a questionnaire survey. *Global Nest Journal* 16, 929 – 937.
18. **Papanastasiou D**, Bartzanas T, Panagakis P, Kittas C, 2014. Assessment of a typical sheep barn based on potential seasonal heat-stress of dairy ewes. *Applied Engineering in Agriculture* 30, 953 – 959.
19. **Papanastasiou DK**, Melas D, Kambezidis HD, 2014. Heat waves characteristics and their relation to air quality in Athens. *Global Nest Journal* 16, 919 – 928.
20. **Papanastasiou DK**, Bartzanas T, Kittas C, 2015. Classification of potential sheep heat-stress levels according to the prevailing meteorological conditions. *Agricultural Engineering International: CIGR Journal, Special issue 2015: 18th World Congress of CIGR*: 57 – 64.
21. **Papanastasiou DK**, Melas D, Kambezidis HD, 2015. Air quality and thermal comfort levels under extreme hot weather. *Atmospheric Research* 152, 4 – 13.
22. Antoniadis D, Katsoulas N, **Papanastasiou D**, Christidou V, Kittas C, 2016. Evaluation of thermal comfort in schoolyards under Mediterranean climate conditions. *International Journal of Biometeorology* 60, 319 – 334.
23. **Papanastasiou DK**, Bartzanas T, Panagakis P, Zhang G, Kittas C, 2016. Study of heat-stress levels in naturally ventilated sheep barns during heat waves: development and assessment of regression models. *International Journal of Biometeorology* 60, 1637 – 1644.
24. Giannenas I, Bonos E, Anestis V, Filioussis G, **Papanastasiou DK**, Bartzanas T, Papaioannou N, Tzora A, Skoufos I, 2017. Effects of protease addition and replacement of soybean meal by corn gluten meal on the growth of broilers and on the environmental performances of a broiler production system in Greece. *PLoS ONE* 12(1), e0169511. doi:10.1371/journal.pone.0169511.
25. Tzora A, Giannenas I, Karamoutsios A, Papaioannou N, **Papanastasiou D**, Bonos E, Skoufos S, Bartzanas T, Skoufos I, 2017. Effects of oregano, attapulgate, benzoic acid and their blend on chicken performance, intestinal microbiology and intestinal morphology. *The Journal of Poultry Science* 54, 218 – 227.
26. Pu X, Wang T, Huang X, Melas D, Zanis P, **Papanastasiou DK**, Poupkou A, 2017. Enhanced surface ozone during the heat wave of 2013 in Yangtze River Delta region, China. *Science of the Total Environment* 603 – 604, 807 – 816.
27. Baxevanou CA, Fidaros DK, **Papanastasiou DK**, Bartzanas T, Kittas C, 2017. Numerical simulation of flow and transport phenomena in a livestock building. *Environmental Engineering and Management Journal* 16, 2513 – 2523.
28. **Papanastasiou DK**, Panagakis P, Anestis V, Bartzanas T, Skoufos I, Tzora A, Kittas C, 2018. Environmental conditions, potential heat-stress state and their relations in a sheep barn under hot climate. *CIGR Journal, Special Issue: Animal housing in hot climate*.
29. Nakov D, Hristov S, Stankovic B, Pol F, Dimitrov I, Ilieski V, Mormede P, Hervé J, Terenina E, Lieubeau B, **Papanastasiou DK**, Bartzanas T, Norton T, Piette D, Tullo E, van Dixhoorn IDE, 2019. Methodologies for assessing disease tolerance in pigs. *Frontiers in Veterinary Science* 5:329. doi: 10.3389/fvets.2018.00329.

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30. Anestis V, **Papanastasiou DK**, Bartzanas T, Giannenas I, Skoufos I, Kittas C, 2020. Effect of a dietary modification for fattening pigs on the environmental performance of commercial pig production in Greece. *Sustainable Production and Consumption* 22, 162 – 176.

31. Antoniadis D, Katsoulas N, **Papanastasiou DK**, 2020. Thermal environment of urban schoolyards: current and future design with respect to children’s thermal comfort. *Atmosphere* 11, 1144.

32. Niemi JK, Edwards SA, **Papanastasiou DK**, Piette D, Stygar AH, Wallenbeck A, Valros A, 2021. Cost-effectiveness analysis of seven measures to reduce tail biting lesions in fattening pigs. *Frontiers in Veterinary Science* 8:682330. doi: 10.3389/fvets.2021.682330

Participation in research, development, and networking projects – Indicative list

Investigation of the climatological characteristics and study of the urban heat island in the greater urban area of Volos. Hellenic State Scholarship Foundation (I.K.Y.), Scholarship Programme: “Postdoctoral Research in Greece 2009 – 2010”, 2010 – 2011.

Development of water management plans, in Thessaly, Epirus and west central Greece, according to the EU Directive 2000/60/EC. Hellenic Ministry of Environment, Energy and Climate Change, 2010 – 2012.

Smart Controlled Environment Agriculture Systems (SMART-CEA). FP7-PEOPLE-2010-IRSES, 2011 – 2015.

Assessment of techniques and technologies for reducing the environmental footprint of poultry facilities (Green Poultry). Cooperation Programme 2011, Hellenic General Secretariat for Research & Technology, 2013 – 2015.

Regional climate-air quality interactions (REQUA). FP7-PEOPLE-2013-IRSES, 2014 – 2018.

Development and assessment of equipment and constructions issues for the sustainable sheep and goat production. Programme to develop Industrial Research and Technology (PAVET) 2013, Hellenic General Secretariat for Research & Technology, 2014 – 2015.

Ammonia and Greenhouse Gases Emissions from Animal Production Buildings (LivAGE). COST Action No 16106, 2017 – 2021.

Development of a broiler meat production system with reduced environmental impact and antibiotic free (Green Poultry Meat Antifree). “Research – Create – Innovate” Action, Hellenic General Secretariat for Research & Technology, 2018 – 2022.

Valorisation of ancient farming techniques in resilient and sustainable agriculture (Valor). Erasmus+, KA2 – Cooperation for innovation and the exchange of good practices – Knowledge Alliances for higher education, 2019 – 2022.

Training Material for GCE (Global Citizenship Education) in rural areas (Rural GCE). Erasmus+, KA2 - Cooperation for innovation and the exchange of good practices KA204 – Strategic Partnerships for adult education, 2019 – 2022.

This short CV was prepared on 30 December 2021