

# **CURRICULUM VITAE**

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## **Personal Information**

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Full Name : Dr. Konstantinos Dimitriou (PhD)  
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## **Education**

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- **[2006] BSc degree in Physics**

Physics Department, University of Ioannina (Greece)  
Ministry of Education, Hellenic Republic  
Grade of BSc: Good

- **[2009] MSc degree: Meteorology Climatology and Physics of the Atmospheric Environment**

Physics Department, University of Ioannina (Greece)  
Ministry of Education, Hellenic Republic  
Grade of MSc: Excellent

**Title of MSc Thesis:** «Calculation of combined air quality indicators in the Attica region. The impact of atmospheric pollutants on human health»

- **[2013] PhD degree: Atmospheric Sciences and Environment**

Physics Department, University of Ioannina (Greece)  
Ministry of Education, Hellenic Republic  
Grade of PhD: Excellent

**Title of PhD Thesis:** «PM<sub>10</sub> and PM<sub>2.5</sub> aerosols in Europe: Local sources, atmospheric transportation, impacts in air quality»

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## **Seminars – Summer Schools**

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- **[2008] Degree of Observer Meteorologist**

Hellenic Meteorological Service, Hellenic Air Force  
Grade of Degree: (Excellent with Praise)

- **[2009] On the Job Training (OJT) degree of observer meteorologist**

Hellenic Air Force

- **[2013] Summer School: Dynamics and Management of the Mediterranean Sea Environment**

Technological Educational Institute of Ionian Islands, Department of Environmental Technology, 1/9/2013 – 11/9/2013, Zakynthos (Greece)

- **[2016] Seminar: Data Science with Python**

E-learning seminar on Python programming language  
National and Kapodistrian University of Athens  
November 2015 – February 2016

- **[2018] Seminar: «Professional Certificate Program in Data Science»**

E-learning seminar on R programming language  
November 2018 – February 2019  
Harvard University  
Completed and certified courses:

- ✓ R basics

Online Certificate: <https://courses.edx.org/certificates/1031c0cc6b214909b7da14c8e325376e>

- ✓ Visualization

Online Certificate: <https://courses.edx.org/certificates/efa28ea1d00547b9b07fedfc3f1089c>

- ✓ Probability

Online Certificate: <https://courses.edx.org/certificates/907fad7a3f8847c7bd7166bae41a3446>

- ✓ Productivity Tools

Online Certificate: <https://courses.edx.org/certificates/b3c5eac6619a43f4ac88d5226a02bd3b>

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## Working Experience

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- **[2/12/2008-2/9/2009]: *Observer Meteorologist***, Hellenic Air Force, Preveza (Greece),  
The main duties were to observe, record and transmit meteorological data
- **[16/10/2013-7/2/2014]: *Higher Education Teaching Professional***, Technological Educational Institute of Ionian Islands, Department of Food Technology, Argostoli (Greece), Teaching of the lesson: “Physics (Laboratory)”
- **[13/10/2014-13/2/2015]: *Higher Education Teaching Professional***, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Fluid Mechanics (Laboratory)” and “Air Pollution (Laboratory)”

- **[9/3/2015-10/7/2015]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Renewable Energy Sources 2 (Theory)” and “Meteorology - Climatology (Laboratory)”
- **[5/10/2015-12/2/2016]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Fluid Mechanics (Laboratory)” and “Air Pollution (Laboratory)”
- **[4/11/2015-31/3/2016]: Higher Education Teaching Professional**, Technological Educational Institute of Athens, Department of Energy Technology Engineering, Athens (Greece), Teaching of the lesson: “Physics (Laboratory)”
- **[1/3/2016-30/6/2016]: Higher Education Teaching Professional**, Technological Educational Institute of Ionian Islands, Department of Environmental Technology, Zakynthos (Greece), Teaching of the lessons: “Renewable Energy Sources 2 (Theory)”, “Meteorology - Climatology (Laboratory)” & “Renewable Energy Sources 1 (Laboratory)”
- **[11/2/2017-30/6/2017 & 1/9/2017-29/9/2017]: Higher Education Teaching Professional**, University of Ioannina, Department of Physics, Postgraduate program Atmospheric Sciences and Environment, Teaching of the lesson: “Renewable Energy Sources”
- **[10/10/2017-31/7/2018]: Higher Education Teaching Professional**, Hellenic Open University, Postgraduate program Waste Management, Teaching of the lesson: Air Pollution Management. Also supervision of two MSc theses.
- **[12/2/2018-30/6/2018 & 1/9/2018-30/9/2018]: Higher Education Teaching Professional**, University of Ioannina, Department of Physics, Postgraduate program Atmospheric Sciences and Environment, Teaching of the lesson: “Renewable Energy Sources”
- **[2/8/2019 – Today]: Post doc researcher**, Institute for Environmental Research and Sustainable Development (IERSD) of the National Observatory of Athens.

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### List of Journal Publications

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#### **27 Publications (25 as First Author) – Average Impact Factor: 4.141**

1. **Dimitriou, K.**, Paschalidou, A.K., Kassomenos, P.A., 2013. Assessing air quality with regards to its effects on human health in the European Union through air quality indices. (Ecological Indicators, 27, 108-115) **[IF: 4.229]**
2. Kassomenos, P.A., **Dimitriou, K.**, Paschalidou, A.K., 2013. Human health damage caused by particulate matter PM(10) and ozone in urban environments: the case of Athens, Greece. (Environmental Monitoring and Assessment, 185 (8), 6933-6942) **[IF: 1.903]**

3. **Dimitriou, K.**, Kassomenos, P.A., 2013. The fine and coarse particulate matter at four major Mediterranean cities: Local and regional sources. (Theoretical and Applied Climatology, 114 (3-4), 375-391) **[IF: 2.882]**
4. **Dimitriou, K.**, Kassomenos, P.A., 2014. Local and regional sources of fine and coarse particulate matter based on traffic and background monitoring (Theoretical and Applied Climatology, 116 (3-4), 413-433) **[IF: 2.882]**
5. **Dimitriou, K.**, Kassomenos, P.A., 2014. Decomposing the profile of PM in two low polluted German cities – Mapping of air mass residence time, focusing on potential long range transport impacts (Environmental Pollution, 190, 91-100) **[IF: 6.792]**
6. **Dimitriou, K.**, Kassomenos, P.A., 2014. Indicators reflecting local and transboundary sources of PM<sub>2.5</sub> and PM<sub>COARSE</sub> in Rome – Impacts in air quality. (Atmospheric Environment, 96, 154-162) **[IF: 4.039]**
7. **Dimitriou, K.**, Kassomenos, P.A., 2014. A study on the reconstitution of daily PM<sub>10</sub> and PM<sub>2.5</sub> levels in Paris with a multivariate linear regression model. (Atmospheric Environment, 98, 648-654) **[IF: 4.039]**
8. **Dimitriou, K.**, Kassomenos, P.A., 2015. Three year study of tropospheric ozone with back trajectories at a metropolitan and a medium scale urban area in Greece (Science of the Total Environment, 502, 493-501) **[IF: 6.551]**
9. Petrou, I., **Dimitriou, K.**, Kassomenos, P.A., 2015. Distinct atmospheric patterns and associations with acute heat induced mortality in five regions of England. (International Journal of Biometeorology, 59, 1413-1424) **[IF: 2.680]**
10. **Dimitriou, K.**, 2015. The dependence of PM size distribution from meteorology and local-regional contributions, in Valencia (Spain) – A CWT model approach. (Aerosol and Air Quality Research, 15, 1979-1989) **[IF: 2.735]\*\***
11. **Dimitriou, K.**, Remoundaki, E., Mantas, E., Kassomenos, P.A., 2015. Spatial distribution of source areas of PM<sub>2.5</sub> by Concentration Weighted Trajectory (CWT) model applied in PM<sub>2.5</sub> concentration and composition data. (Atmospheric Environment, 116, 138-145) **[IF: 4.039]**
12. **Dimitriou, K.**, Mc-Gregor, G., Kassomenos, P.A., Paschalidou, A.K., 2016. Exploring winter mortality variability in five regions of England, using back trajectory analysis. (Earth Interactions, 20(1), 1-27) **[IF: 2.167]**
13. **Dimitriou, K.**, Kassomenos, P.A., 2016. Combining AOT, Angstrom Exponent and PM concentration data, with PSCF model, to distinguish fine and coarse aerosol intrusions in Southern France. (Atmospheric Research, 172-173, 74-82) **[IF: 4.676]**
14. **Dimitriou, K.**, 2016. Upgrading the estimation of daily PM<sub>10</sub> concentrations utilizing prediction variables reflecting atmospheric processes. (Aerosol and Air Quality Research, 16, 2245-2254) **[IF: 2.735]\*\***

15. **Dimitriou, K.**, Kassomenos, P.A., 2017. The covariance of air quality conditions in six cities in Southern Germany - The role of meteorology. (Science of the Total Environment, 574, 1611-1621) **[IF: 6.551]**
16. **Dimitriou, K.**, Paschalidou, A.K., Kassomenos, P.A., 2017. Distinct synoptic patterns and air masses responsible for long-range desert dust transport and sea-spray in Palermo, Italy. (Theoretical and Applied Climatology, 130, 1123-1132) **[IF: 2.882]**
17. **Dimitriou, K.**, Kassomenos, P.A., 2017. Aerosol contributions at an urban background site in Eastern Mediterranean – Potential source regions of PAHs in PM<sub>10</sub> mass. (Science of the Total Environment, 598, 563-571) **[IF: 6.551]**
18. **Dimitriou, K.**, Kassomenos, P.A., 2017. Airborne heavy metals in two cities of North Rhine Westphalia – Performing inhalation cancer risk assessment in terms of atmospheric circulation. (Chemosphere, 186, 78-87) **[IF: 5.778]**
19. **Dimitriou, K.**, Kassomenos, P.A., 2018. The influence of specific atmospheric circulation types on PM<sub>10</sub>-bound benzo(a)pyrene inhalation related lung cancer risk in Barcelona, Spain. (Environment International, 112, 107-114) **[IF: 7.577]**
20. **Dimitriou, K.**, Kassomenos, P.A., 2018. Day by day evolution of a vigorous two wave Saharan dust storm – Thermal and air quality impacts. (Atmosfera, 31(2), 105-124) **[IF: 1.106]**
21. **Dimitriou, K.**, Kassomenos, P.A., 2018. Quantifying daily contributions of source regions to PM concentrations in Marseille, based on the trails of incoming air masses. (Air Quality Atmosphere and Health, 11, 571–580) **[IF: 2.870]**
22. **Dimitriou, K.**, Kassomenos, P.A., 2018. A meteorological analysis of PM<sub>10</sub> episodes at a high altitude city and a low altitude city in central Greece – The impact of wood burning heating devices (Atmospheric Research, 214, 329–337) **[IF: 4.676]**
23. **Dimitriou, K.**, Kassomenos, P.A., 2019. Allocation of excessive cancer risk induced by benzene inhalation in 11 cities of Europe in atmospheric circulation regimes. (Atmospheric Environment, 201, 158–165) **[IF: 4.039]**
24. **Dimitriou, K.**, Kassomenos, P.A., 2019. Estimation of North African dust contribution on PM<sub>10</sub> episodes at four continental Greek cities. (Ecological Indicators, 106, 105530) **[IF: 4.229]**
25. **Dimitriou, K.**, Kassomenos, P.A., 2020. Background concentrations of benzene, potential long range transport influences and corresponding cancer risk in four cities of central Europe, in relation to air mass origination. (Journal of Environmental Management, 262, 110374) **[IF: 5.647]**
26. **Dimitriou, K.**, Liakakou, E., Lianou, M., Psiloglou, M., Kassomenos, P., Mihalopoulos, N., Gerasopoulos, E., 2020. Implementation of an aggregate index to elucidate the influence of atmospheric synoptic conditions on air quality in Athens, Greece. (Air Quality Atmosphere and Health, 13(4), 447-458) **[IF: 2.870]**

27. Dimitriou, K., Grivas, G., Liakakou, E., Gerasopoulos, E., Mihalopoulos, N., 2021. Assessing the contribution of regional sources to urban air pollution by applying 3D-PSCF modeling. (Atmospheric Research, 248, 105187) [IF: 4.676]

**IF: Journal Impact Factor 2019**

**\*\*IF: Journal Impact Factor 2018 (Journal Impact Factor 2019 not available)**

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### List of Conference Publications

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1. Kassomenos, P.A., **Dimitriou, K.**, Karakitsios, S.K., Sarigiannis, D.A., 2009. Indices to characterize human health damage from PM10, Ozone in life cycle basis. Proceedings of the 11<sup>th</sup> International Conference on Environmental Science and Technology (CEST), pgs 568-575. Chania, Crete, Greece, 3 - 5 September 2009.
2. Mc-Gregor, G., **Dimitriou, K.**, Kassomenos, P.A., Paschalidou, A.K., 2016. Exploring the Meteorological Origins of Winter Mortality in England Using Back Trajectory Analysis. 7th Conference on Environment and Health, American Meteorological Society, New Orleans, 10 - 14 January 2016.

**Διαθέσιμη προφορική παρουσίαση:** <https://ams.confex.com/ams/96Annual/webprogram/Paper284191.html>

3. Mihalopoulos, N., Bougiatioti, A., Pierros, F., **Dimitriou, K.**, Quehe, P-Y., Delmotte, M., Ramonet, M., 2020. Greenhouse gases measurements at the urban environment of Athens, Greece. Integrated Carbon Observation System (ICOS) Online Science Conference, 15 - 17 September 2020.

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### Computing Skills

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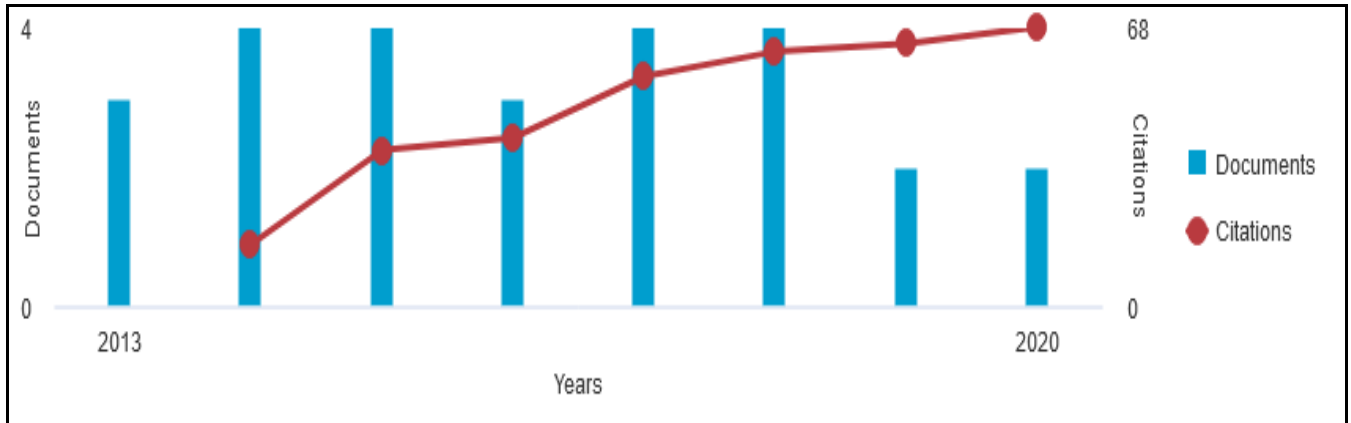
- Programming skills in FORTRAN
- Programming skills in R
- Basic Programming skills in Python
- Experience in statistical data processing with statistical package SPSS (V18-V22)
- User of Grapher and Surfer visualisation packages
- Fluent in Microsoft Office (Excel, Word, PowerPoint) and Internet. ECDL modules 3 "Word processing", 4 "Spreadsheets", 7 "Web browsing and communication"

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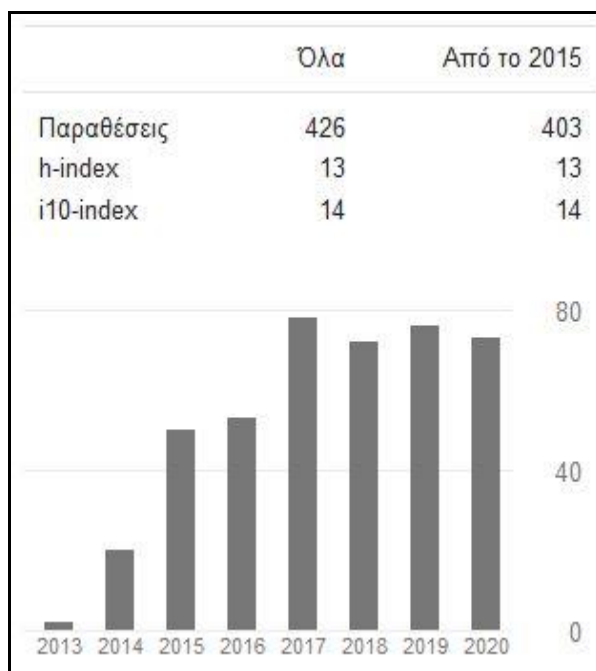
## H-Index and Citations

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- h-index (Scopus): 12 [Number of citations: 350]



- h-index (Google Scholar): 13 [Number of citations: 426]




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## General Education

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- Driving Licence (Type B)  
Ministry of Transports and Communications – Hellenic Republic
- 6-year Cello musical studies at the Municipal Conservatoire of Ioannina (Higher level)

- 6-year Accordion musical studies at the Hellenic National Conservatoire (Moderate Level)
- 3-year Musical Theory lessons and sol fez at the Hellenic National Conservatoire

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### **Languages**

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- ❖ **English (Excellent)** :
  - I.E.L.T.S. (Academic) Certificate, University of Cambridge, September 2013 (Grade: 8.0 / 9.0)
  - First Certificate in English, University of Cambridge, June 1995
  
- ❖ **French (Moderate)** :
  - D.E.L.F. I  
Diplôme d' études en langue française  
Modules: A1, A2, A3, A4  
June 1996
  - Certificat de la langue française  
September 1996
  
- ❖ **Greek (Excellent)** :
  - Native language

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### **Reviewer in International Journals**

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1. Environmental Pollution
2. Atmospheric Pollution Research
3. Atmospheric Research
4. Atmospheric Environment
5. Science of the Total Environment
6. Aerosol and Air Quality Research
7. Chemosphere



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## Awards and distinctions

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1. **[2015]** Recognized reviewer in Atmospheric Pollution Research
2. **[2016]** Recognized reviewer in Atmospheric Research
3. **[2017]** Recognized reviewer in Atmospheric Environment
4. **[2017]** Outstanding reviewer in Environmental Pollution
5. **[2018]** Outstanding reviewer in Science of the Total Environment
6. **[2019]** Recognized reviewer in Chemosphere