

CURRICULUM VITAE

Name: Dr. Argyro Nisantzi
Date of Birth: 06/10/1981
Nationality: Greek
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Education:

2010 – 2015: PhD. “Integrated use of remote sensing and lidar techniques for the study of atmosphere and aerosol optical properties in Eastern Mediterranean” (in Greek).

2005 – 2008: MA. Master of Environmental Physics and Meteorology, National and Kapodestrian University of Athens, MA Thesis: “The impact of large-scale atmospheric circulation on the occurrence of extreme wet and dry spells over Eastern Mediterranean”. (in Greek).

2000 - 2005: BA, Bachelor in Physics, National and Kapodestrian University of Athens.

Work Experience:

2007-2008: Research Assistant, Dept. of Environmental Physics and Meteorology, Faculty of Physics, University of Athens. Participation in an European Research Project.

2009-2016: Research Assistant, Department of Civil Engineering and Geomatics, Faculty of Engineering and Technology, Cyprus University of Technology. Participation in 2 National and 9 European Research Projects.

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2014-2015: Teaching Assistant, Department of Civil Engineering and Geomatics, Faculty of Engineering and Technology, Cyprus University of Technology.

Scientific interests:

Environmental physics, remote sensing, lidar, aerosol optical properties, atmospheric aerosol, atmospheric physics, air pollution, meteorology, climate change.

Software and scientific instruments:

-Topographic equipment: Lidar

-Software: MS Office (Word, Excel, Power Point, Access), LabView, ERDAS Imagine, ENVI

Publications:

Published books:

1. Hadjimitsis D.G., Themistokleous K., Nisantzi A., Chapter: Air Pollution Monitoring Using Earth Observation & GIS, Air Pollution / Book 1, ISBN 979-953-307-228-8, Book edited by: Dr. Mukesh Khare (2011)
2. Remote Sensing of Environment – Integrated Approaches. Chapter 7 Air pollution from space by Diofantos G. Hadjimitsis, Rodanthi-Elisavet Mamouri, Argyro Nisantzi, Natalia Kouremerti, Adrianos Retalis, Dimitris Paronis, Filippos Tymvios, Skevi Perdikou, Souzana Achileos, Marios Hadjicharalambous, Spyros Athanasatos, Kyriacos Themistocleous, Christiana Papoutsas, Andri Christodoulou, Silas Michaelides, John Evans, Mohamed M. Abdel Kader, George Zittis, Marilia Panayiotou, Jos Lelieveld and Petros Koutraki. ISBN 978-953-51-1152-8, Hard cover, 211 pages, Publisher: InTech, Chapters published July 10, 2013, DOI: 10.5772/3337

Publications in scientific journals:

1. Mamouri, R.-E., **Nisantzi, A.**, Ansmann, A., and Hadjimitsis, D. G. (2016). “Extreme dust storm over the eastern Mediterranean in September 2015: Lidar vertical profiling of desert dust at Limassol, Cyprus.” Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-354.

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- Ricaud, P., Zbinden, R., Catoire, V., Brocchi, V., Dulac, F., Hamonou, E., Canonici, J.-C., Amraoui, L., Massart, S., Piguet, B., Dayan, U., Nabat, P., Sciare, J., Ramonet, M. Delmotte, M., di Sarra, A. G., Sferlazzo, D., Di Iorio, T., Piacentino, S., Cristofanelli, P., Mihalopoulos, N., Kouvarakis, G., Kleanthous, S., Pikridas, M., Savvides, C., Mamouri, R. E., **Nisantzi, A.**, Hadjimitsis, D. G., Attié, J.-L., Ferré, H., Theron, P., Kangah, Y., Jaidan, N., Jacquet, P., Chevrier, S., Robert, C., Bourdon, A., Bourdinot, J.-F., and J.-C. Etienne (2016). "Overview of the Gradient in Longitude of Atmospheric constituents above the Mediterranean basin (GLAM) airborne summer campaign." *Atmos. Chem. Phys. Discuss.*, acp-2016-295, submitted, 2016.
- Nisantzi, A.**, Mamouri, R. E., Ansmann, A., Schuster, G. L., & Hadjimitsis, D. G. (2015). "Middle East versus Saharan dust extinction-to-backscatter ratios." *Atmospheric Chemistry and Physics*, 15(4), 7071-7084.
- Vakkari, V., O' Connor, E. J., **Nisantzi, A.**, Mamouri, R. E., and Hadjimitsis, D. G. (2015). "Low-level mixing height detection in coastal locations with a scanning Doppler lidar." *Atmospheric Measurements Techniques*, 8(4), 1875-1885.
- Sicard, M., D'Amico, G., Comerón, A., Mona, L., Alados-Arboledas, L., Amodeo, A., Baars, M. H., Belegante, L., Biniotoglou, I., Bravo-Aranda, J. A., Fernández, A. J., Fréville, P., García-Vizcaíno, D., Giunta, A., Granados-Muñoz, M. J., Guerrero-Rascado, J. L., Hadjimitsis, D. G., Haeferle, A., Hervo, M., Iarlori, M., Kokkalis, P., Lange, D., Mamouri, R.E., Mattis, I., Molero, F., Montoux, N., Muñoz, A., Muñoz, Porcar, C., Navas-Guzmán, F., Nicolae, D., **Nisantzi, A.**, Papagiannopoulos, N., Papayannis, A., Pereira, S., Preißler, J., Pujadas, M., Rizi, V., Rocadenbosch, F., Sellegri, K., Simeonov, V., Tsaknakis, G., Wagner, F., and Pappalardo, G. (2015). "EARLINET: potential operationality of a research network." *Atmospheric Measurement Techniques Discussions*, 8(7), 6599-6659.
- Nisantzi, A.**, Mamouri, R.E., Ansmann, A., and Hadjimitsis, D.H. (2014). "Injection of mineral dust into the free troposphere during fire events observed with polarization lidar at Limassol, Cyprus." *Atmospheric Chemistry and Physics* 14(22), 12155-12165.
- Mamouri, R. E., Ansmann, A., **Nisantzi, A.**, Kokkalis, P., Schwarz, A., and Hadjimitsis, D. G. (2013). "Low Arabian dust extinction-to-backscatter ratio." *Geophys. Res. Lett.*, 40(17), 4762- 4766.
- Grguric, S., Krizan, J., Gasparac, G., Antonic, O., Spiric, Z., Mamouri, R.E., Christodoulou, A., Nisantzi, A., Agapiou, A., Themistikleous, K., Fedra, K., Panayiotou, C., Hadjimitsis, D. (2014). "Relationship between MODIS based Aerosol Optical Depth and PM10 over Croatia." *Central European Journal of Geoscience*, 6(1), 2-16.

Selected Publications in Scientific Conference:

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1. Mamouri R-E, **Nisantzi A.**, Ansmann A., Hadjimitsis D.G., (2016), “Extreme dust storm over the eastern Mediterranean in September 2015: Lidar vertical profiling of desert dust at Limassol”, Forth International Conference on Remote Sensing and Geoinformation of Environment’ , RSCy2016, 4-8 April, 2016, Pafos, Cyprus.
2. **Nisantzi A.**, Mamouri R-E., Basart S., Baldasano J.M., Ansmann A., and Hadjimitsis D., (2016) “Four years Lidar observations and model simulations for desert dust intrusions over eastern Mediterranean”, Forth International Conference on Remote Sensing and Geoinformation of Environment’ , RSCy2016, 4-8 April, 2016, Pafos, Cyprus.
3. Mamouri, R.E., Ansmann, A., Buhl, J., Engelmann, R., Baars, H., **Nisantzi, A.**, Hadjimitsis, D., Atkinson, J., Kanji Z., Vrekoussis M., Sciare J., Mihapoloulos N., (2016). “Closure between ice-nucleating particle and ice crystal number concentration in ice clouds embedded in Saharan dust: Lidar observation during the BACCHUS Cyprus 2015 campaign”, EGU 2016, 17-22 April 2016, Vienna, Austria.
4. Cuca, B., Agapiou, A., Lysandrou, V., Themistokleous, K., Nisantzi, A., Michaelides, S., Hadjimitsis, D., (2016). “ Impact of the climate change on Cultural Heritage Sites in Cyprus.” EGU 2016, 17-22 April 2016, Vienna, Austria.
5. Agapiou, A., Lysandrou, V., Themistokleous, K., **Nisantzi, A.**, Lasaponara, R., Masini, N., Krauss, T., Cerra, D., Gessner, U., Schreier, G., Hadjimitsis, D. G., “Searching data for supporting archaeo-landscapes in Cyprus: an overview of aerial, satellite and cartographic datasets of the island.” Forth International Conference on Remote Sensing and Geoinformation of Environment, RSCy2016, 4-8 April, 2016, Pafos, Cyprus.
6. **Nisantzi, A.**, Mamouri, R.E., Hadjimitsis, and D., Ansmann, A. (2015). “Four-year study of Middle East and Sahara dust intrusions in terms of particle lidar ratio: Observations with lidar and sun/sky photometer over Limassol, Cyprus.” *EGU General Assembly*, Vienna, 13534.
7. Vakkari, V., O’Connor, E.J., **Nisantzi, A.**, Mamouri, R.E., and Hadjimitsis, D.G. (2015) “Detecting shallow mixing heights in two coastal locations with a scanning Doppler lidar.” EGU 2015, *EGU General Assembly*, Vienna, 9844.
8. Hadjimitsis, D., Agapiou, A., Mettas, C., Themistocleous, K., Evagorou, E., Cuca, B., ... & **Nisantzi, A.** (2015) “Marine spatial planning in Cyprus.” Third International Conference on Remote Sensing and Geoinformation of the Environment (pp. 953511-953511). International Society for Optics and Photonics.
9. **Nisantzi, A.**, Mamouri R.E., Hadjimitsis, D.G., and Ansmann, A. (2014). “Long range aerosol observations over Limassol using remote sensing techniques (2010-2013).” *Proc., 12th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2014*, Herakleon, 213.

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10. **Nisantzi, A.**, Mamouri, R.E., Basart, S., Baldasano, J.M., and Hadjimitsis, D.G., and Ansmann, A. (2014). "Lidar observations and model simulations for desert dust events over Cyprus." *Proc., 2nd International Conference on Remote Sensing and Geoinformation of Environment*, Paphos.
11. Mamouri, R.E., **Nisantzi, A.**, Ansmann, A., and Hadjimitsis, D.G., (2014) "Ground based and satellite lidar observations in the Mediterranean island of Cyprus.", *Proc., 2nd International Conference on Remote Sensing and Geoinformation of Environment*, Paphos.
12. Mamouri, R.E., **Nisantzi, A.**, Ansmann, A., Hadjimitsis, D.G., Abdel Kader, M., Kleanthous, S., Metzger, S., Lelieveld, J., Klingmuller, K., Barrie, L., and Levin, Z. (2014). "Remote sensing Observations and Model Simulations over Cyprus: A desert dust event analysis." *Proc., 12th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2014*, Herakleon, 185.
13. AbdelKader, M., Metzger, S., Klingmueller, K., Mamouri, R.E., Ansmann, A., Hadjimitsis, D.G., **Nisantzi, A.**, Barrie, L., Leleveld, J., and Levin, Z. (2014). "Dynamics of Saharan and Arabian dust events over the Eastern Mediterranean: Modeling and Lidar observations." *Proc., International Conference on Atmospheric Dust*, Castellana.
14. Mamouri, R.E., **Nisantzi, A.**, Hadjimitsis, D.G., and Ansmann, A., (2013). "Lidar ratios and depolarization ratios of Arabian, Saharan, Turkish dust, and of complex mixtures of dust, smoke, and urban haze over the AERONET/EARLINET site at Limassol, Cyprus." *Proc. ESA LIVING PLANET*, Endiburg.
15. **Nisantzi, A.**, Mamouri, R.E., Akylas, E., and Hadjimitsis, D.G. (2013). "Synergetic use of active and passive remote sensing instruments for the seasonal variance of aerosols over Cyprus." *Proc., 13th International Conference on Environmental Science and Technology*, Athens, 416.
16. **Nisantzi, A.**, Mamouri, R.E., Akylas, E., and Hadjimitsis, D.G. (2013). "Combination of ground-based and satellite remote sensing measurements over Limassol." *Proc., 1st International Conference on Remote Sensing and Geoinformation of Environment*, Paphos.
17. **Nisantzi, A.**, Hadjimitsis, D.G., Akylas, E., Agapiou, A., Panayiotou, M., Michaelides, S., Tymvios, F., Charalambous, D., Athanasatos, S., Retalis, A., Paronis, D., Perdikou, S., Koutrakis, P., Evans, J.S., and Achilleos, S. (2013) "Study of Air pollution with the use of MODIS Data, LIDAR and Sun Photometer in Cyprus." *Advances in Meteorology, Climatology and Atmospheric Physics*. Springer Berlin Heidelberg, 1133-1139.
18. Mamouri, R.E., **Nisantzi, A.**, Kokkalis, P., and Hadjimitsis, D.G. (2012). "Variability of mixing Aerosols over S-E Mediterranean site." *Proc., International Laser Radar Conference (ILRC) 2012*, Porto Heli, 513-516.

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19. **Nisantzi, A.**, Mamouri, R.E., and Hadjimitsis, D.G. (2012). “Aerosol Properties For A Dust Event Observed Over Cyprus.” *Proc., International Laser Radar Conference (ILRC) 2012*, Porto Heli, 497-500.
20. Mamouri, R.E., **Nisantzi, A.**, Hadjimitsis, D.G., Ansmann, A., Basart, S., Baldasano, J.M., and Kokkalis, P. (2012). “Complex vertical aerosol layering of natural and anthropogenic particles over the southeastern Mediterranean: Observations with EARLINET lidar and AERONET photometer at Lemesos, Cyprus and comparison with transport modeling results.” *Proc., IGAC International Global Atmospheric Chemistry 2012*, Beijing.
21. **Nisantzi, A.**, Mamouri, R.E., Kokkalis, P., and Hadjimitsis, D.G. (2012). “Characterize aerosol optical properties observed over Lemesos, Cyprus using passive and active remote sensing instruments” *Proc., EAC European Aerosol Conference 2012*, Granada.
22. Mamouri, R.E., Kleanthous, S., Basart, S., Amiridis, V., **Nisantzi, A.**, Hadjimitsis, D. G., Agapiou, A., and Baldasano, J. M. (2012). “Aerosol variability over Lemesos, Cyprus: Use of ground based data, satellite observations and model simulations.” *Proc., European Aerosol Conference*, Granada.
23. **Nisantzi, A.**, Hadjimitsis, D.G., Alexakis, D. (2011). “Estimating the relationship between aerosol optical thickness and PM₁₀ using lidar and meteorological data in Limassol, Cyprus.” *Proc. SPIE 8182*, 818217.
24. **Nisantzi, A.**, Hadjimitsis, D.G., Georgousis, G. (2010). “Study of the structure of the lower atmosphere over Limassol in Cyprus using a backscattering lidar.” **Proceeding of International Conference on Remote Sensing**, Hangzhou, China.
25. Hadjimitsis, D.G., Themistokleous, K., **Nisantzi, A.** Matsas, A. (2010). “The study of atmospheric correction of satellite remotely sensed images intended for air pollution using sun-photometers (AERONET) and lidar system in Lemesos, Cyprus.” *Proc. of SPIE*, 78320V.