

Ioanna Tsikoudi

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Applied Physics – Environmental Physics and Meteorology

Education

- PhD Candidate** Dec. 2019 – Present
National Kapodistrian University of Athens
• “Aerosol characterization with the use of active remote sensing methods in combination with Eastern Mediterranean meteorology”
- Master of Science (Environmental Physics and Meteorology)** Oct. 2017 – Jul. 2019
National Kapodistrian University of Athens
• Grade: 8.41/10
• Diploma Thesis: “Dynamic Analysis of a medicane”
- Bachelor of Science (Physics)** Sep. 2012 – Jul. 2017
National Kapodistrian University of Athens
• Grade: 7.05/10
• Diploma Thesis: “Synoptic consideration of a snowfall in Attica”
- 1^o Lyceum of Kaisariani** Sep. 2009 – Jun. 2012
• Grade: 18.143/20

Work Experience

- National Observatory of Athens - Institute for Astronomy, Astrophysics, Space Applications & Remote Sensing (IAASARS)** Feb. 2020 – Present
«SNF-PANGAEA» PANhellenic GEophysical observatory of Antikythera project in the framework of the 12-month fellowship from Stavros Niarchos Foundation (SNF)
- National Observatory of Athens - IAASARS,** Sep. 2019 – Feb. 2020
Operation of Polly^{XT} NOA lidar in PANGAEA, Antikythera – Data processing/interpretation
- Internship: Hellenic National Meteorological Service (HNMS)** Nov. 2016 – Jan. 2017
Comparison between temperature (dry-bulb & maximum/minimum) time-series collected by automatic and conventional station of Eleysina, from 2014 to 2015.
- Cram School “Anodiko”** Feb. 2016 – Jun. 2019
Tutoring Physics, Chemistry and Mathematics

Publications - Conferences and Workshops

Peer - Reviewed Publications

- Is the near-spherical shape the “new black” for smoke?, Anna Gialitaki, Alexandra Tsekeri, Vassilis Amiridis, Romain Ceolato, Lucas Paulien, Anna Kampouri, Antonis Gkikas, Stavros Solomos, Eleni Marinou, Moritz Haarig, Holger Baars, Albert Ansmann, Tatyana Lapyonok,

Anton Lopatin, Oleg Dubovik, Silke Groß, Martin Wirth, Maria Tschla, **Ioanna Tsikoudi**, and Dimitris Balis, *Atmos. Chem. Phys.*, 20, 14005–14021, 2020, <https://doi.org/10.5194/acp-20-14005-2020>

- The Electrical Activity of Saharan Dust as perceived from Surface Electric Field Observations in Greece, Vasiliki Daskalopoulou, Sotirios A. Mallios, Zbigniew Ulanowski, George Hloupis, Anna Gialitaki, **Ioanna Tsikoudi**, Konstantinos Tassis and Vassilis Amiridis, *Atmos. Chem. Phys.*, (Under Review), <https://doi.org/10.5194/acp-2020-668>
- Investigation of volcanic emissions in the Mediterranean: “The Etna-Antikythera connection”, Anna Kampouri, Vassilis Amiridis, Stavros Solomos, Anna Gialitaki, Eleni Marinou, Christos Spyrou, Aristeidis K. Georgoulas, Dimitris Akritidis, Nikolaos Papagiannopoulos, Lucia Mona, Maria Tschla, **Ioanna Tsikoudi**, Ioannis Pytharoulis, Theodore Karacostas and Prodromos Zanis, Submitted to: *Atmosphere*

Conference Proceedings

- Announced: “Wind and planetary boundary layer observations during the Pre-TECT campaign” (Poster), **Tsikoudi I.**, Gialitaki A., Marinou E., Tschla M., Giannakaki E., Amiridis V. and Flocas E., 15th International Conference on Meteorology, Climatology and an Atmospheric Physics (COMECAP), 26-29 Σεπτεμβρίου 2021, Ιωάννινα, Ελλάδα
- Announced: “Studying marine aerosol properties above Antikytera, Greece using remote sensing and in-situ measurements” (Poster), Tschla M., Gialitaki A., Marinou E., Tsekeri A., **Tsikoudi I.**, Amiridis V., Kalivitis N. and Mihalopoulos N., 15th International Conference on Meteorology, Climatology and an Atmospheric Physics (COMECAP), 26-29 Σεπτεμβρίου 2021, Ιωάννινα, Ελλάδα
- “Planetary Boundary Layer Height during the Pre-TECT campaign using remote sensing observational datasets and WRF model” (Poster), **Ioanna Tsikoudi**, Eleni Marinou, Anna Gialitaki, Maria Tschla, Eleni Drakaki, Anna Kampouri, Ville Vakkari, Mika Komppula, Elina Giannakaki, Helena Flocas and Vassilis Amiridis, European Lidar Conference (ELC), 18-20 Νοεμβρίου 2020, Online Conference
- “Utilizing active remote sensing to characterize marine aerosol properties in the Eastern Mediterranean” (Poster), Maria Tschla, Anna Gialitaki, Eleni Marinou, Alexandra Tsekeri, **Ioanna Tsikoudi**, Vassilis Amiridis, Nikos Kalivitis and Nikos Mihalopoulos, European Lidar Conference (ELC), 18-20 Νοεμβρίου 2020, Online Conference
- “Aerosol Typing in the Eastern Mediterranean during Pre-TECT Campaign over Finokalia, Crete” (Poster), K. A. Voudouri, E. Marinou, A. Gialitaki, A. Kampouri, M. Tschla, **I. Tsikoudi**, N. Siomos, V. Amiridis, D. Balis and C. Meleti, European Lidar Conference (ELC), 18-20 Νοεμβρίου 2020, Online Conference
- “Planetary Boundary Layer Height retrievals using Polly-XT Lidar water vapor acquisitions” (Poster), **Tsikoudi I.**, Marinou E., Gialitaki A., Tschla M., Paschou P., Giannakaki E., Flocas H., Vakkari V., Komppula M. and Amiridis V., PANhellenic infrastructure for Atmospheric Composition and climatE chAnge (PANACEA) 2nd Scientific Conference, 29 Σεπτεμβρίου-1 Οκτωβρίου 2020, Online Conference
- “Observations of aerosol load in PANGEA during COVID-19 lock-down and relaxation period”, Marinou, E., Gialitaki, A., Tschla, M., **Tsikoudi, I.**, Paschou, P., Siomos, N., Drakaki. E., Kampouri, A., and Amiridis, V., PANhellenic infrastructure for Atmospheric Composition and climatE change (PANACEA) 2nd Scientific Conference, 29 Σεπτεμβρίου-1 Οκτωβρίου 2020, Online Conference
- “Properties of biomass burning particles as observed in PANGEA observatory” (Poster), Anna Gialitaki, Alexandra Tsekeri, Eleni Marinou, Peristera Paschou, Maria Tschla, Anna Kampouri, **Ioanna Tsikoudi**, Dimitris Balis and Vassilis Amiridis, PANhellenic infrastructure for Atmospheric Composition and climatE chAnge (PANACEA) 2nd Scientific Conference, 29 Σεπτεμβρίου-1 Οκτωβρίου 2020, Online Conference

- “EARLINET/ACTRIS analysis of aerosol profiles during the COVID-19 lock-down and relaxation period.”, Nicolae, D. et al, available at:<https://www.earlinet.org/index.php?id=covid-19-reports>, May 2020.
- “Aerosol properties during two experimental campaigns in Eastern Mediterranean” (Poster), **Ioanna Tsikoudi**, Tsihla Maria, Kampouri Anna, Gialitaki Anna, Marinou Eleni, Amiridis Vassilis and Solomos Stavros, ACTRIS Remote Sensing Workshop, 18-22 Νοεμβρίου 2019, Ρώμη, Ιταλία
- “Preliminary comparisons with NOA Polly-XT lidar and the SCC”, Maria Tsihla, **Ioanna Tsikoudi**, Anna Gialitaki, Peristera Paschou, Eleni Marinou, Nikos Siomos and Vassilis Amiridis, V., ACTRIS Remote Sensing Workshop, 18-22 Νοεμβρίου 2019, Ρώμη, Ιταλία
- “Two methodologies for lidar-based marine characterization in the near range” (Poster), Maria Tsihla, **Ioanna Tsikoudi**, Anna Gialitaki, Eleni Marinou and Vassilis Amiridis, ACTRIS Remote Sensing Workshop, 18-22 Νοεμβρίου 2019, Ρώμη, Ιταλία
- “Aerosol properties at Antikythera and Finokalia during two experimental campaigns” (Poster), **Tsikoudi I.**, Tsihla M., Kampouri A., Gialitaki A., Marinou E., Solomos S. and Amiridis V., PANhellenic infrastructure for Atmospheric Composition and climatE change (PANACEA) 1st Scientific Conference, 23-24 Σεπτεμβρίου 2019, Ηράκλειο Κρήτης, Ελλάδα
- “A new methodology for lidar-based characterization of marine particles” (Poster), Tsihla M., **Tsikoudi I.**, Gialitaki A., Marinou E. and Amiridis V., PANhellenic infrastructure for Atmospheric Composition and climatE change (PANACEA) 1st Scientific Conference, 23-24 Σεπτεμβρίου 2019, Ηράκλειο Κρήτης, Ελλάδα
- “Study of the air quality levels for a 10-year-period in the greater Athens area” (Poster), Gavriil A., Georgakaki P., Granakis K., Lalos K., Lamprinou S., Mylonaki M., Papanikolaou C., **Tsikoudi I.**, Foskinis R. and Giannakaki E., 14th International Conference on Meteorology, Climatology and an Atmospheric Physics (COMECAP), 15-17 Οκτωβρίου 2018, Αλεξανδρούπολη, Ελλάδα
- Solar Radiation Based Established Techniques for Atmospheric Observations (“SORBETTO”), International Summer School Conference, 2-6 Ιουλίου 2018, Sapienza University Ρώμη, Ιταλία

Languages

English: Certificate of Proficiency in English (ECPE)
 French: Delf B2

Technical Skills

Programming Languages: Python, C
 Scientific Computing: Matlab, SPSS, Grid Analysis and Display System (GrADS)
 Visualization Tools: Panoply, GrADS, Integrated Data Viewer (IDV)