

## EDUCATION

11/2019 - Present	PhD Candidate in department of Chemistry, University of Crete
9/2017 - 7/2019	Master in Physics, department of Astrophysics, Astronomy and Mechanics, Faculty of Physics, National and Kapodistrian University of Athens
9/2012 - 6/2017	Bachelor degree in Physics, National and Kapodistrian University of Athens, Department of Physics

## PUBLICATIONS SUBMITTED IN PEER REVIEWED JOURNALS

- Assessing sea-state effects on sea-salt aerosol modeling in the lower atmosphere using lidar and in-situ measurements, Varlas, G., Marinou, E., Gialitaki, A., Siomos, N., Tsarpalis, K., Kalivitis, N., Solomos, S., Tsekeri, A., Spyrou C., **Tsichla, M.**, Vervatis, V., Giannakaki, E., Amiridis V., Mihalopoulos, N., Papadopoulos, A., Katsafados, P., Submitted to: Remote Sensing
- Investigation of volcanic emissions in the Mediterranean: “The Etna-Antikythera connection”, Kampouri, A., Amiridis, V., Solomos, S., Gialitaki, A., Marinou, E., Spyrou, C., Georgoulas, A., K., Akritidis, D., Papagiannopoulos, N., Mona, L., **Tsichla, M.**, Tsikoudi, I., Pytharoulis, I., Karacostas, T., Zanis, P., Atmosphere 2021, 12(1), 40; <https://doi.org/10.3390/atmos12010040>
- Is the near-spherical shape the “new black” for smoke?, Gialitaki, A., Tsekeri, A., Amiridis, V., Ceolato, R., Paulien, L., Kampouri, A., Gkikas, A., Solomos, S., Marinou, E., Haarig, M., Baars, H., Ansmann, A., Lapyonok, T., Lopatin, A., Dubovik, O., Groß, S., Wirth, M., **Tsichla, M.**, Tsikoudi, I., and Balis, D., Atmos. Chem. Phys., 20, 14005–14021, 2020, <https://doi.org/10.5194/acp-20-14005-2020>
- Spectral analysis of solar and geomagnetic parameters in relation to cosmic ray intensity for the time period 1965-2018, **Tsichla, M.**, Gerontidou, M., Mavromichalaki, H., Solar Physics, 294, 15, 2019, <https://doi.org/10.1007/s11207-019-1403-0>

## PUBLICATIONS SUBMITTED IN CONFERENCE PROCEEDINGS/WORKSHOPS

- «Utilizing active remote sensing to characterize marine aerosol properties in the Eastern Mediterranean», **Tsichla, M.**, Gialitaki, A., Marinou, E., Tsekeri, A., Tsikoudi, I., Amiridis, V., Kalivitis, N., Mihalopoulos, N., “European Lidar Conference”, 18-20 November 2020, Online
- «Planetary Boundary Layer Height during the Pre-TECT campaign using remote sensing observational datasets and WRF model”, Tsikoudi, I., Marinou, E., Gialitaki, A., **Tsichla, M.**, Drakaki, E., Kampouri, A., Vakkari, V., Komppula, M., Giannakaki, E., Flocas, H., Amiridis, V., “European Lidar Conference”, 18-20 November 2020, Online
- «Aerosol Typing in the Eastern Mediterranean during Pre-TECT Campaign over Finokalia, Crete», Voudouri, K., A., Marinou, E., Gialitaki, A., Kampouri, A., **Tsichla, M.**, Tsikoudi, I., Siomos, N., Amiridis, V., Balis, D., Meleti, C., “European Lidar Conference”, 18-20 November 2020, Online
- «Observations of aerosol load in PANGEA during COVID-19 lock-down and relaxation period», Marinou, E., Gialitaki, A., **Tsichla, M.**, Tsikoudi, I., Paschou, P., Siomos, N., Drakaki, E., Kampouri, A.,

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- Amiridis, V., "Second Scientific Conference PANACEA", 29 September – 1 October 2020, Online
- «Properties of biomass burning particles as observed in PANGEA observatory», Gialitaki, A., Tsekeri, A., Marinou, E., Paschou, P., **Tsichla, M.**, Kampouri, A., Tsikousi, I., Balis, D., Amiridis, V., "Second Scientific Conference PANACEA", 29 September – 1 October 2020, Online
  - «Planetary Boundary Layer Height retrievals using Polly-XT Lidar water vapor acquisitions», Tsikoudi, I., Marinou, E., Gialitaki, A., **Tsichla, M.**, Paschou, P., Giannakaki, E., Flocas H., Vakkari, V., Komppula, M., Amiridis, V., "Second Scientific Conference PANACEA", 29 September – 1 October 2020, Online
  - «Elic Retrievals during Covid19 campaign», Marinou, E., Gialitaki, A., **Tsichla, M.**, Pietras C., Baars, H., Sicard, M., Komppula, M., Shang, X., Stachlewska, I., S., Szczepanik, D., Mattis, I., D'Amico, G., Engelmann, R., Amiridis V., "Aerosol Remote Sensing (ARS-ARES) Workshop, 6-8 July 2020, Online
  - «Observations in aerosol load in Antikythera station during COVID-19 lockdown», Marinou, E., Gialitaki, A., **Tsichla, M.**, Tsikoudi, I., Amiridis, V., Zhenping, Y., Baars, H., Engelmann, R., "Aerosol Remote Sensing (ARS-ARES) Workshop, 6-8 July 2020, Online
  - «Preliminary comparisons with NOA POLLYXT Lidar and the SCC», **Tsichla, M.**, Tsikoudi, I., Gialitaki, A., Paschou, P., Marinou, E., Siomos, N., Amiridis, V., "Actris Remote Sensing Workshop", 18-22 November 2019, Rome
  - «Two methodologies for lidar-based marine characterization in the near range», **Tsichla, M.**, Tsikoudi, I., Gialitaki, A., Marinou, E., Amiridis, V., "Actris Remote Sensing Workshop", 18-22 Νοεμβρίου 2019, Ρώμη
  - «A new methodology for lidar-based characterization of marine particles», **Tsichla, M.**, Tsikoudi, I., Gialitaki, A., Marinou, E., Amiridis, V., "PANACEA Conference", 23-24 September 2019, Heraklion, Crete
  - «Mid-term periodicities of Cosmic-Ray intensity and Bz-Component of Interplanetary magnetic field», **Tsichla, M.**, Gerontidou, M., Mavromichalaki, H., "NMDB Meeting 2019", 5-7 March 2019, Athens
  - «Short- and Long- term periodicities of Cosmic-Ray intensity time series», **Tsichla, M.**, Gerontidou, M., Mavromichalaki, H., "13<sup>0</sup> Panhellenic Conference of Astronomy", 2-6 July 2017, Heraklion, Crete

## **PARTICIPATION IN PROGRAMS**

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- «PANACEA-IAASARS», National Observatory of Athens / Institute for Astronomy, Astrophysics, Space Applications & Remote Sensing , «Reinforcement of the Research and Innovation Infrastructure», funded by the operational programme «Competitiveness, Entrepreneurship, Innovation», (NSRF 2014-2020) and cofinanced by Greece and the European Union (European Regional Development Fund).  
«Operation of the POLLY XT NOA lidar of Antikythera and processing/interpretation of data»
- «SNF-PANGEA», IAASARS, NOA, Stavros Niarchos Foundation,  
«Operation of the POLLY XT NOA lidar of Antikythera and processing/interpretation of data»
- «SINA BUILDING», IAASARS, NOA  
«Research relevant to thesis conducted during Master in Physics, department of Astrophysics, Astronomy and Mechanics, Faculty of Physics, National and Kapodistrian University of Athens»
- «Space Weather User Needs for the Mediterranean Region», National and Kapodistrian University of Athens, Faculty of Physics, Department of Nuclear and Particle Physics, European Space Agency (ESA), «Workshop organization»

## **PARTICIPATION IN RESEARCH PROJECTS AND EXPERIMENTAL CAMPAIGNS**

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- Supervisor of the 24/7 PollyXT lidar measurements of NOA station PANGEA, processing and uploading of data in the EARLINET database.
- Participation in the greek network PANACEA and the European networks EARLINET, POLLYNET and ACTRIS.
- Participation in the experimental campaign «Earlinet Covid-19 NRT lidar measurement campaign», organized by the European research infrastructure ACTRIS for studying the change in composition of the atmosphere during Covid-19 pandemic. Processing of lidar measurements. (<https://www.earlinet.org/index.php?id=covid-19>) (May 2020).

## **MASTER THESIS**

2018 - 2019

Spectral analysis of solar, interplanetary, geomagnetic parameters and cosmic-ray intensity using fast Fourier transform and wavelet analysis with Matlab in order to find periodicities in these parameters for Space-Weather forecasting.

## **COLLABORATION**

9/2019 - Present

“Remote Sensing of Aerosols, Clouds and Trace gases” (ReACT), under the supervision of Research Director Vassilis Amiridis, National Observatory of Athens / Institute for Astronomy, Astrophysics, Space Applications & Remote Sensing

2016 - 2017

“Athens Neutron Monitor Station”, (A.Ne.Mo.S) under the supervision of Em. Prof. Helen Mavromichalaki and Lab.Teach.Staff M. Gerontidou, National and Kapodistrian University of Athens, Faculty of Physics, Department of Nuclear and Particle Physics

## **TECHNICAL SKILLS**

Language

English (ECPE)

Computer Languages

Python, Matlab and also familiar with C

## **FELLOWSHIPS**

9/2012 - 6/2017

Antonios Papadakis Scholarship for Undergraduate studies