

**PERSONAL INFORMATION** Peristera Paschou

📍 3, Mytilinis, Agia Paraskevi, Athens, 15343, Greece

📞 +306982468150

✉️ [pepaschou@noa.gr](mailto:pepaschou@noa.gr)

Sex Female | Date of birth 10/06/1994 | Nationality Greek

**WORK EXPERIENCE**

- 01/05/2019 - Today Research assistant in the framework of the project «SNF-PANGEA» on the «Algorithm development for the EVE lidar reference system»  
Institute of Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS), National Observatory of Athens (NOA), Athens, Greece
- 01/02/2019 - 30/04/2019 Research assistant in the framework of the project «Development of a new 3-dimensional climatological dust product using the spaceborne mission CALIPSO»  
IAASARS, NOA, Athens, Greece
- 01/07/2016-31/08/2016 Internship in the frame of the undergraduate studies in the Physics Department of the Aristotle University of Thessaloniki  
Hellenic National Meteorological Service, Regional Meteorological Unit of Macedonia, Thessaloniki (Greece)

**EDUCATION**

- 4/2019 - today **PhD Candidate**  
Physics Department, Faculty of Sciences, Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece  
IAASARS, NOA, Greece  
▪ Dissertation title: “Properties of desert dust using active satellite and ground-based remote sensing”  
Supervisor: Assis. Prof. Charikleia Meleti
- 11/2016 - 10/2018 **Master of Science (MSc) in Environmental Physics** 9.32/10  
Physics Department, Faculty of Sciences, AUTH, Thessaloniki, Greece  
▪ Thesis title: “The effect of the potential vorticity in validating satellite total ozone columns using ground-based observations”  
Supervisor: Prof. Dimitrios Balis
- 09/2012 - 11/2016 **Basic Science (BSc) in Physics** 7.37/10  
Physics Department, Faculty of Sciences, AUTH, Thessaloniki, Greece  
▪ Thesis title: “How aerosols affect the solar incident flux on mobile photovoltaic systems in Thessaloniki”  
Supervisor: Prof. Alkiviadis Bais

**SPOKEN LANGUAGES**

- Mother tongue(s) Greek
- Other language(s)
  - English:
    - First Certificate in English (FCE), University of Cambridge B2 (Grade C)
    - State Certificate of Foreign Language Proficiency (level B2)

**DIGITAL SKILLS**

- Computer Skills Certificate, Physics Department, Faculty of Sciences, AUTH
- Software and programs
  - very good command of Microsoft Office suite (Word, Excel, PowerPoint)
  - good command of graphing and data analysis software (OriginLab)
- Programming languages
  - Basic level: C, Fortran
  - Moderate level: IDL, MATLAB
  - High level: Python

**PARTICIPATION IN CONFERENCES / SEMINARS / WORKSHOPS / COURSES**

- Conferences
  - European Geosciences Union General Assembly 2021, Teleconference, 19-30/4/2021
  - 2<sup>nd</sup> Scientific Conference PANACEA, Teleconference, 29/9/2020-1/10/2020
  - 1<sup>st</sup> Scientific Conference PANACEA, Heraklion, Greece, 23-24/9/2019
  - 29<sup>th</sup> International Laser Radar Conference, Hefei, Anhui, China, 24-28/6/2019
  - Educational approaches and experimental teaching in the Natural Sciences, Physics Department and School of Primary Education of Aristotle University Thessaloniki, PANEKFE, Thessaloniki, 16-17/04/2016
  - 5<sup>th</sup> Conference of the Association of Researchers in Mathematical Education, University of Western Macedonia, Florina, Greece, 14-16/03/2014
- Seminars
  - 3<sup>rd</sup> Seminar of the INTERREG MED project REMEDIO with title: Sustainable urban mobility: Confronting air pollution and climate change, INTERREG MED project REMEDIO & Aristotle University Thessaloniki, Thessaloniki, Greece, 22/05/2018
  - The contribution of satellite observations in determining the emission of gaseous pollutants, Physics Department of Aristotle University Thessaloniki, Thessaloniki Greece, 29/11/2017
  - Seminar for Digital Skills, Grow Greek Tourism Online, Thessaloniki Greece, 24/05/2017
- Workshops
  - Aeolus Cal/Val & Science workshop, Virtual Workshop, 2-6/11/2020
  - European Research Infrastructure for the observation of Aerosol, Clouds and Trace Gases (ACTRIS) Remote Sensing (ARS-ARES) Workshop, Virtual Workshop, 6-8/07/2020
  - ACTRIS Remote Sensing Workshop, Rome, Italy, 18-22/11/2019
  - Final Workshop, Regional climate-air quality interactions (REQUA), Thessaloniki Greece, 18-19/11/2017
  - Bridging disciplines to address the challenges and prepare responses in the Mediterranean changing environment, Justus Liebig University Giessen & Aristotle University Thessaloniki, Thessaloniki Greece, 13/10/2017
  - Human rights and refugees, Municipal and Peripheral Theatre of Kozani, Kozani Greece, 06/05/2011

- Courses**
- Block course: Introduction to climate change methods (Linux, CDO and GrADS), Department of Geography, Justus Liebig University Giessen, Giessen, Germany, 2-7/5/2018
  - COSMO / CLM / ART Training course, School of Meteorology of Deutscher Wetterdienst, Langen, Germany, 12-16/3/2018

## PARTICIPATION IN EXPERIMENTAL CAMPAIGNS

- 10-15/11/2019      2<sup>nd</sup> Scientific D-TECT campaign, Nicosia, Cyprus  
 Objectives/Tasks: operation support of the WALL-E lidar system (NOA)

## PUBLICATIONS

- Peer Review Journals**  
 (first author)
- Paschou, P., Koukouli, M.-E., Balis, D., Lerot, C. and Van Roozendael, M.: The effect of considering polar vortex dynamics in the validation of satellite total ozone observations, *Atmos. Res.*, 238, doi:10.1016/j.atmosres.2020.104870, 2020
- (co-author)
- Tsekeri, A., Amiridis, V., Louridas, A., Georgoussis, G., Freudenthaler, V., Metallinos, S., Doxastakis, G., Gasteiger, J., Siomos, N., Paschou, P., Georgiou, T., Tsaknakis, G., Evangelatos, C., and Biniotoglou, I.: Polarization lidar for detecting dust orientation: System design and calibration, *Atmos. Meas. Tech. Discuss.* [preprint], <https://doi.org/10.5194/amt-2021-30>, in review, 2021.
- Conference Proceedings**  
 (first author)
- Paschou, P., Siomos, N., Amiridis, V., Freudenthaler, V., Georgoussis, G., Tsekeri, A., Meleti, C., and Von Bismarck, J.: EVE polarization lidar: ESA's ground reference system for Aeolus L2A products Cal/Val, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-9570, <https://doi.org/10.5194/egusphere-egu21-9570>, 2021.
  - Paschou, P., Proestakis, E., Tsekeri, A., Siomos, N., Gkikas, A., Gialitaki, A., Marinou, E., Biniotoglou, I., Meleti, C., Freudenthaler, V., Georgoussis, G., Doxastakis, G., Louri-das, A., Von Bismarck, J. and Amiridis, V.: The ESA-EVE Polarization Lidar for Assessing the Aeolus Aerosol Product Performance, edited by D. Liu, Y. Wang, Y. Wu, B. Gross, and F. Moshary, *EPJ Web Conf.*, 237, 07025, doi:10.1051/epjconf/202023707025, 2020.
- (co-author)
- Siomos, N., Gkikas, A., Baars, H., Wandinger, U., Amiridis, V., and Paschou, P. and the EARLINET consortium: Investigating the performance of AEOLUS L2A products over Europe with EARLINET ground-based lidars, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-12460, <https://doi.org/10.5194/egusphere-egu21-12460>, 2021.
  - Tsekeri, A., Freudenthaler, V., Amiridis, V., Doxastakis, G., Louridas, A., Georgoussis, G., Metallinos, S., Gasteiger, J., Siomos, N., Paschou, P., Georgiou, T., Tsaknakis, G., Evangelatos, C., and Biniotoglou, I.: Polarization lidar for detecting dust orientation: first measurements, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-13039, <https://doi.org/10.5194/egusphere-egu21-13039>, 2021.
  - Amiridis, V., Tsekeri, A., Marinou, E., Proestakis, E., Gkikas, A., Gialitaki, A., Daskalopoulou, V., Paschou, P., Siomos, N., Biniotoglou, I., Gasteiger, J., Freudenthaler, V., Mamouri, R.-E., Ansmann, A. and Mona, L.: Advancing the remote sensing of desert dust, *Proc.SPIE*, 11152, doi:10.1117/12.2530322, 2019.

## PRESENTATIONS

- Oral**
- EVE: ESA's ground reference polarization lidar system for Aeolus Cal/Val  
P. Paschou, N. Siomos, V. Amiridis, V. Freudenthaler, A. Tsekeri, E. Proestakis, A. Gkikas, A. Gialitaki, E. Marinou, I. Biniotoglou, C. Meleti, D. Balis, G. Gerorgoussis, G. Doxastakis, A. Louridas., T. Kanitz and J. Von Bismarck  
 Aeolus Cal/Val & Science Workshop, Virtual Workshop, 2-6/11/2020
  - EVE lidar: The ESA's ground reference system for Cal/Val activities  
P. Paschou, N. Siomos, A. Gkikas, V. Amiridis, A. Tsekeri, E. Marinou, A. Kampouri, A. Gialitaki, A. Tavernarakis, G. Gerorgoussis, V. Freudenthaler and J. Von Bismarck  
 ACTRIS Remote Sensing (ARS - ARES) Workshop, Virtual Workshop, 6-8/07/2020
- Poster**
- EVE lidar: The passport of EARLINET lidar system towards Aeolus Cal/Val studies  
P. Paschou, N. Siomos, A. Tsekeri, A. Gkikas, E. Marinou, A. Gialitaki, C. Meleti and V. Amiridis  
 2<sup>st</sup> Scientific Conference PANACEA, Teleconference, 29/9/2020-1/10/2020
  - ESA-EVE polarization lidar: A novel mobile reference system for Cal/Val activities  
 P. Paschou, A. Tsekeri, N. Siomos, V. Amiridis, E. Proestakis, A. Gkikas, A. Gialitaki, E. Marinou, I. Biniotoglou, C. Meleti, D. Balis, V. Freudenthaler, G. Georgoussis, G. Doxastakis, A. Louridas, S. Gross, T. Kanitz and J. Von Bismarck  
 8<sup>th</sup> International EarthCARE Science Workshop, Fukuoka, Japan, 25-27/11/2019
  - The ESA-EVE polarization lidar for Aeolus Cal\Val activity in ASKOS campaign  
P. Paschou, A. Tsekeri, N. Siomos, V. Amiridis, E. Proestakis, A. Gkikas, A. Gialitaki, E. Marinou, I. Biniotoglou, C. Meleti, D. Balis, V. Freudenthaler, G. Georgoussis, G. Doxastakis, A. Louridas., T. Kanitz and J. Von Bismarck  
 ACTRIS Remote Sensing Workshop, Rome, Italy, 18-22/11/2019
  - The ESA-EVE polarization lidar for assessing the Aeolus aerosol product performance  
P. Paschou, E. Proestakis, A. Tsekeri, N. Siomos, A. Gkikas, A. Gialitaki, E. Marinou, I. Biniotoglou, C. Meleti, V. Freudenthaler, G. Georgoussis, G. Doxastakis, A. Louridas. J. Von Bismarck and V. Amiridis  
 1<sup>st</sup> Scientific Conference PANACEA, Heraklion, Greece, 23-24/9/2019
  - The ESA-EVE polarization lidar for assessing the Aeolus aerosol product performance  
P. Paschou, E. Proestakis, A. Tsekeri, N. Siomos, A. Gkikas, A. Gialitaki, E. Marinou, I. Biniotoglou, C. Meleti, V. Freudenthaler, G. Georgoussis, G. Doxastakis, A. Louridas. J. Von Bismarck and V. Amiridis  
 29<sup>th</sup> International Laser Radar Conference, Hefei, Anhui, China, 24-28/6/2019
  - The effect of the potential vorticity in validation of satellite total ozone columns using ground-based observations  
 P. Paschou, M. E. Koukoulj, D. Balis  
 ATMOS 2018 Conference, European Space Agency, Salzburg, Austria, 26-29/11/2018

## ADDITIONAL INFORMATION

**Driving licence** A1, B

- Other skills**
- Classic guitar: 10 years (grade 3)
  - Basketball: 15 years
  - Taekwondo: 4 years (blue belt)

**Volunteering**   ▪ U16 European Championship Women (FIBA Europe), Kozani, Greece, 12-22/08/2010

**Honours and awards**   ▪ 12-month fellowship from the Stavros Niarchos Foundation (SNF) in the framework of the «SNF-PANGEA» project of the IAASARS, NOA. Time period: 01/05/2019 - 30/04/2020  
▪ Travel grant from the International Coordination-group for Laser Atmospheric Studies (ICLAS) for the participation in the 29<sup>th</sup> International Laser Radar Conference, Hefei, China