

PERSONAL INFORMATION



Ilias Fountoulakis

📍 Danaidon 20B, Chalandri, Attiki, 15232 Greece

📞 0030 6932257284

✉ i.fountoulakis@noa.gr

Sex male | Date of birth 11/07/1981 | Nationalities Greek, American

Married with two children

WORK EXPERIENCE

- 11/2020 – present** *Post doctoral research associate*
Organization *Institute of Astronomy and Astrophysics, National Observatory of Athens, Athens, Greece*
Main duties
- Analysis of ground based and satellite retrievals of solar radiation, aerosols and clouds
 - Transfer of knowledge from the national observatory of Athens to the University of Cyprus regarding the monitoring and the applications of solar radiation and solar energy
 - Radiative transfer modelling, mainly for solar energy applications
 - Validation of estimates of surface solar radiation from satellite measurements and forecast models.
- 01/2018 – 11/2020** *Post doctoral research associate*
Organization *ARPA Valle d’Aosta, Saint Christophe, Aosta, Italy*
Main duties
- Study the UV radiation over Italy with respect to the local meteorological and climatic conditions, total ozone and air quality.
 - Setup and initialisation of a new optical laboratory
 - Calibration and characterization of a Bentham spectroradiometer for solar ultraviolet (UV) and visible (VIS) radiation monitoring
 - QA/QC of spectral and broad-band radiometric measurements in the UV and VIS regions
 - Validation of estimates of surface UV irradiance from satellite measurements and forecast models.
 - Software development for data analysis and storage (using mainly Python and MATLAB)
- 09/2017 – 12/2017** *Post doctoral research associate*
Organization *University of La Laguna, Canary Islands, Tenerife, Spain*
Main duties
- Documentation of the European Network of Brewer spectrophotometers (Eubrewnet) database
 - Development of scientific software for the Eubrewnet database (Eubrewnet is a European database for measurements performed by Brewer spectrophotometers, of the total ozone, the spectral UV irradiance, and the aerosol optical depth in the UV)
- 12/2016 – 09/2019** *Post doctoral research associate*
Organization *Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece*
Main duties
- Study aerosol optical properties in UV and VIS over Thessaloniki, Greece
 - Maintenance and calibration of spectrophotometers, and broad-band radiometers for the monitoring of solar radiation and atmospheric composition.
 - Optimization of algorithms for the retrieval of aerosol optical properties in the UV.
- 01/2012 – 11/2016** *PhD student/Research associate*
Organization *Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece*

- Main duties*
- Study the temporal variability of spectral solar UV radiation and biological UV doses on regional and global scale, using measurement, projections from global climate models, and simulations from radiative transfer models.
 - Calibration and maintenance of two Brewer spectrophotometers which perform spectral measurements of the solar UV radiation
 - QA/QC of measurements of the solar UV irradiance and the columnar ozone
 - Contribution to the validation of satellite products such as total ozone and solar UV irradiance.
 - Contribution to the installation, calibration and maintenance of pyranometers and radiometers in a number of stations of the UVNET (national UV monitoring network of Greece) and EDHE (Hellenic Network of Solar Energy) networks
 - Software development for the QA/QC and the analysis of direct and global spectral measurements of the solar irradiance

04/2010 – 12/2011 **Postgraduate research assistant**

Organization **Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece**

- Main duties*
- Calibration and maintenance of the the two Brewer spectrophotometers operating at the Laboratory of Atmospheric Physics (LAP) of the Aristotle University of Thessaloniki (AUTH)
 - QA/QC of global and direct spectral UV measurements from Brewer spectrophotometers.
 - installation and maintenance of pyranometers and radiometers in a number of stations of the UVNET (national UV monitoring network of Greece) and EDHE (Hellenic Network of Solar Energy) networks

EDUCATION AND TRAINING

01/2012 – 11/2016	PhD in Physics (Atmospheric Physics)	EQF level 8
<i>Institute</i>	Aristotle University of Thessaloniki (Greece)	
<i>Subject</i>	Long term trends of the spectral solar UV irradiance	
<i>Grade</i>	Excelent	
09/2009 – 10/2011	MSc in Environmental Physics	EQF level 6
<i>Institute</i>	Aristotle University of Thessaloniki (Greece)	
<i>Grade</i>	96.0%	
09/2001 – 07/2008	BA in Physics	EQF level 5
<i>Institute</i>	Aristotle University of Thessaloniki (Greece)	
<i>Grade</i>	78.4%	

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

UNDERSTANDING	SPEAKING	WRITING

	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
First Certificate in English by the University of Cambridge					
Italian	A2	A2	A2	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

Specific computing skills:

- Usage of different operating systems:
 - windows 10 and below
 - Linux (2.6, Debian, Ubuntu)
 - DOS
- Programming languages (Matlab, Visual/GW/Q Basic)
- Scripting languages (Python, Shell, Bash)
- Use of virtual machines and system simulation tools (DOSbox, VMware, Oracle, Cygwin)
- Ability to work on terminal (use of MobaXterm)
- Microsoft Office
- End Note
- LaTeX
- Google Drive (Docs, Sheets, Slides)
- Other tools for graphical representation of data and statistical analysis (e.g. Origin, Surfer)
- Experience on handling large datasets using variable tools on Windows and Linux environments

Driving licence EEA category: B

ADDITIONAL INFORMATION

Publications in peer reviewed journals

I have co-authored **26** scientific papers published in peer-reviewed journals. I am the leading author of ten. A detailed list of publications is provided in annex I.

Presentations in international conferences

I have co-authored **61** presentations in national and international conferences. A detailed list of the conference presentations is provided in annex II.

- Theses**
- **I. Fountoulakis:** “Long term trends of the spectral solar UV radiation” PhD Thesis, University of Thessaloniki, Physics Department, (2016)
 - **I. Fountoulakis:** “Evaluation of the operation and the optical characteristics of the spectrophotometer Brewer with serial number 86” MSc Thesis, University of Thessaloniki, Physics Department, (2011)
 - **I. Fountoulakis:** “Development and application of methodology for the use of the YES-UVB-1 actinometer as an instrument for the measurement of the UVB irradiance” BA degree Thesis, University of Thessaloniki, Physics Department, (2008)

- Reports**
- **I. Fountoulakis:** Report of the Short Term Scientific Mission: “Correction of the Brewer measurements for the dead time effect” (COST-STSM-ES1207-21218), 04 November 2014

- Other**
- <http://rbce.aemet.es/dokuwiki/doku.php> (co-author of the online documentation of Eubrewnet)

Citations Scopus (author ID: 56568211800): **204** citations, h-index=**9**

- Reviewer in scientific journals** I am reviewer for the following **22** scientific journals (also listed: publisher and impact factor):
- Earth System Science Data (Copernicus, IF: 11.333)
 - Science of the Total Environment (Elsevier, IF: 7.963)
 - Atmospheric Chemistry and Physics (Copernicus, IF: 6.133)
 - Remote Sensing (MDPI, IF: 4.848)
 - Environmental Science and Pollution Research (Springer, IF: 4.223)
 - Atmospheric Measurement Techniques (Copernicus, IF: 4.176)
 - Atmospheric Environment (Elsevier, IF: 4.012)
 - Journal of King Saud University – Science (Elsevier, IF: 4.011)
 - The European Physical Journal Plus (Springer, IF: 3.911)
 - Sensors (MDPI, IF: 3.576)
 - International Journal of Digital Earth (Taylor & Francis, IF: 3.538)
 - Photochemistry and Photobiology (Wiley, IF: 3.421)
 - Theoretical and Applied Climatology (Springer, IF: 3.375)
 - Sustainability (MDPI, IF: 3.251)
 - Metrologia (IOP science, IF: 3.157)
 - Atmosphere (MDPI, IF: 2.686)
 - Applied Sciences (MDPI, IF: 2.679)
 - Measurement Science and Technology (IOP science, IF: 2.046)
 - Annales Geophysicae (Copernicus, IF: 1.880)
 - Rendiconti Lincei - scienze fisiche e naturali (Elsevier, IF: 1.627)
 - African Journal of Environmental Science and Technology (AJ, IF: -)
 - Indian Journal of Science & Technology (ISEE, IF: -)

Evaluator of scientific proposals Evaluator of one proposal submitted to the Arctic Research Council

- Field Campaigns**
- THE 14th INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, June 17 – June 28, 2019
 - THE XII INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE & COST ACTION ES1207 EUBREWNET CAMPAIGN - ATMOZ (Traceability of Atmospheric Total Ozone) Field demonstration campaign, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, May 29 – June 07, 2017
 - THE X INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE & COST ACTION ES1207 EUBREWNET CAMPAIGN, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, May 27 – June 05, 2015

- International summer schools**
- 17th WMO-GAW BREWER OPERATOR COURSE, “El Arenosillo” Atmospheric Sounding Station, INTA, Huelva, Spain, June 17 – June 21, 2019
 - 14th WMO-GAW BREWER USERS GROUP MEETING, EUBREWNET & WMO GAW BREWER OPERATOR COURSE, State Meteorological Agency of Spain, Santa Cruz de Tenerife, Spain- 24th – 28th March 2014
- Honours and awards**
- COST ACTION ES1207 travelling grant for the Short Term Scientific Mission: “Correction of the Brewer measurements for the dead time effect” (COST-STSM-ES1207-21218), (September 28 – October 8, 2014)
 - IUGG travelling grant for the participation in 26th General Assembly of the International Union of Geodesy and Geophysics (IUGG), held in Prague, Czech Republic, June 22 – July 2, 2015.
- Memberships** Member of the EGU
- Courses**
- Co-teaching of the course « Computational tools for Environmental Research », Environmental physics MSc program, AUTH (2017). The subject of my teaching was to introduce MATLAB as a tool for analysis processing of scientific datasets.
 - Teaching assistant of the course “Atmospheric Technology”, Physics Department BA program, AUTH (2013 - 2015). My main duty was to describe the methodology for the calibration of radiometric instruments used for measurements of the solar irradiance.
 - Teaching assistant of the course “Basic Principles of Astronomy”, Physics Department BA program, AUTH (2006). My main duty was the correction of astronomy exercises.
- Projects** I have worked in **13** national and international projects as a research scientist. A detailed list of the projects and the work carried out for each one of them is provided in annex III.

Annex I - List of peer reviewed papers

2021

1. Kosmopoulos, P. G., Kazadzis, S., Schmalwieser, A. W., Raptis, P. I., Papachristopoulou, K., **Fountoulakis, I.**, Masoom, A., Bais, A. F., Bilbao, J., Blumthaler, M., Kreuter, A., Siani, A. M., Eleftheratos, K., Topaloglou, C., Gröbner, J., Johnsen, B., Svendby, T. M., Vilaplana, J. M., Doppler, L., Webb, A. R., Khazova, M., De Backer, H., Heikkilä, A., Lakkala, K., Jaroslowski, J., Meleti, C., Diémoz, H., Hülsen, G., Klotz, B., Rimmer, J., and Kontoes, C.: **Real-time UV index retrieval in Europe using Earth observation-based techniques: system description and quality assessment**, *Atmos. Meas. Tech.*, 14, 5657–5699, <https://doi.org/10.5194/amt-14-5657-2021>, 2021. [IF: 4.176, citations: 0]
2. **Fountoulakis, I.**, Kosmopoulos, P., Papachristopoulou, K., Raptis, I.-P., Mamouri, R.-E., Nisantzi, A., Gkikas, A., Witthuhn, J., Bley, S., Moustaka, A., Buehl, J., Seifert, P., Hadjimitsis, D.G., Kontoes, C., Kazadzis, S.: **Effects of Aerosols and Clouds on the Levels of Surface Solar Radiation and Solar Energy in Cyprus**. *Remote Sens.* 13, 2319, <https://doi.org/10.3390/rs13122319>, 2021. [IF: 4.848, citations: 0]
3. Isaia, G., Diémoz, H., Maluta, F., **Fountoulakis, I.**, Ceccon, D., di Sarra, A., Facta, S., Fedele, F., Lorenzetto, G., Siani, A. M., and Isaia, G.: **Does solar ultraviolet radiation play a role in COVID-19 infection and deaths? An environmental ecological study in Italy**. *Science of The Total Environment*, 143757, <https://doi.org/10.1016/j.scitotenv.2020.143757>, 2020. [IF: 7.963, citations: 9]
4. Chatzimpaloglou, A., Christophoridis, C., **Fountoulakis, I.**, Antonopoulou, M., Vlastos, D., Bais, A., and Fytianos, K.: **Photolytic and photocatalytic degradation of antineoplastic drug irinotecan. Kinetic study, identification of transformation products and toxicity evaluation**. *Chemical Engineering Journal*, 405, 126866, <https://doi.org/10.1016/j.cej.2020.126866>, 2021. [IF: 13.273, citations: 1]

2020

5. Lakkala, K., Kujanpää, J., Brogniez, C., Henriot, N., Arola, A., Aun, M., Auriol, F., Bais, A. F., Bernhard, G., De Bock, V., Catalfamo, M., Deroo, C., Diémoz, H., Egli, L., Forestier, J.-B., **Fountoulakis, I.**, Garane, K., Garcia, R. D., Gröbner, J., Hassinen, S., Heikkilä, A., Henderson, S., Hülsen, G., Johnsen, B., Kalakoski, N., Karanikolas, A., Karppinen, T., Lamy, K., León-Luis, S. F., Lindfors, A. V., Metzger, J.-M., Minvielle, F., Muskatel, H. B., Portafaix, T., Redondas, A., Sanchez, R., Siani, A. M., Svendby, T., and Tamminen, J.: **Validation of the TROPospheric Monitoring Instrument (TROPOMI) surface UV radiation product**. *Atmos. Meas. Tech.*, 13, 6999–7024, <https://doi.org/10.5194/amt-13-6999-2020>, 2020. [IF: 4.176, citations: 2]
6. **Fountoulakis, I.**, Diémoz, H., Siani, A. M., Hülsen, G., and Gröbner, J.: **Monitoring of solar spectral ultraviolet irradiance in Aosta, Italy**, *Earth Syst. Sci. Data*, 12, 2787-2810, <https://doi.org/10.5194/essd-12-2787-2020>, 2020. [IF: 11.333, citations: 2]
7. Vitt, R., Laschewski, G., Bais, A. F., Diémoz, H., **Fountoulakis, I.**, Siani, A.-M., and Matzarakis, A.: **UV-Index Climatology for Europe Based on Satellite Data**. *Atmosphere*, 11, <https://doi.org/10.3390/atmos11070727>, 2020. [IF: 2.686, citations: 5]
8. Eleftheratos, K., Kapsomenakis, J., Zerefos, C.S., Bais, A.F., **Fountoulakis, I.**, Dameris, M., Jöckel, P., Haslerud, A.S., Godin-Beekmann, S., Steinbrecht, W., Petropavlovskikh, I., Brogniez, C., Leblanc, T., Liley, J.B., Querel, R., Swart, D.P.J.: **Possible Effects of Greenhouse Gases to Ozone Profiles and DNA Active UV-B Irradiance at Ground Level**. *Atmosphere*, 11, 228, <https://doi.org/10.3390/atmos11030228>, 2020. [IF: 2.686, citations: 4]
9. Siomos, N.; **Fountoulakis, I.**; Natsis, A.; Drosoglou, T.; Bais, A. **Automated Aerosol Classification from Spectral UV Measurements Using Machine Learning Clustering**. *Remote Sens.* 12, 965, <https://doi.org/10.3390/atmos11030228>, 2020. [IF: 4.848, citations: 6]
10. Huelsen, G., Gröbner, J., Bais, A., Blumthaler, M., Diémoz, H., Bolsee, D., Diaz Rodríguez, A., **Fountoulakis, I.**, Naranen, E., Schreder, J., Stefania, F., and Vilaplana Guerrero, J. M.: **Second solar ultraviolet radiometer comparison**

campaign UVC-II. Metrologia, <http://iopscience.iop.org/10.1088/1681-7575/ab74e5>, 2020. [IF: 3.157, citations: 4]

11. **Fountoulakis, I.**, Diémoz, H., Siani, A.-M., Laschewski, G., Filippa, G., Arola, A., Bais, A.F., De Backer, H., Lakkala, K., Webb, A.R., De Bock, V., Karppinen, T., Garane, K., Kapsomenakis, J., Koukouli, M.-E., Zerefos, C.S. **Solar UV Irradiance in a Changing Climate: Trends in Europe and the Significance of Spectral Monitoring in Italy.** *Environments* 7, 1, <https://doi.org/10.3390/environments7010001>, 2020. [IF: -, citations: 13]

2019

12. **Fountoulakis, I.**, Natsis, A., Siomos, N., Drosoglou, T., and Bais, F. A.: **Deriving Aerosol Absorption Properties from Solar Ultraviolet Radiation Spectral Measurements at Thessaloniki, Greece.** *Remote Sensing*, 11, <https://doi.org/10.3390/rs11182179>, 2019. [IF: 4.848, citations: 7]

2018

13. Raptis, I.-P. Kazadzis, S., Eleftheratos, K., Amiridis, V. **Fountoulakis, I.: Single scattering albedo's spectral dependence effect on UV irradiance.** *Atmosphere*, 9, 364, <https://doi.org/10.3390/atmos9090364>, 2018 [IF: 2.686, citations: 9]
14. **Fountoulakis, I.**, Zerefos, C. S., Bais, A. F., Kapsomenakis, J., Koukouli, M.-E., Ohkawara, N., Fioletov, V., De Backer, H., Lakkala, K., Karppinen, T., and Webb, A. R.: **Twenty-five years of spectral UV-B measurements over Canada, Europe and Japan: Trends and effects from changes in ozone, aerosols, clouds, and surface reflectivity.** *Comptes Rendus Geoscience*, 350, 393-402, <https://doi.org/10.1016/j.crte.2018.07.011>, 2018. [IF: 1.903, citations: 10]
15. Gkertsis F., A.F. Bais, N. Kouremeti, Th Drosoglou, **I. Fountoulakis**, K. Fragkos, **DOAS-based total column ozone retrieval from Phaethon system.** *Atmospheric Environment*, 180, 51-58, <https://doi.org/10.1016/j.atmosenv.2018.02.036>, 2018. [IF: 4.012, citations: 2]
16. Zempila M.M., **I. Fountoulakis**, M. Taylor, S. Kazadzis, A. Arola, M. E. Koukouli, A. Bais, C. Meleti, D. Balis: **Validation of OMI erythemal doses with multi-sensor ground-based measurements in Thessaloniki, Greece.** *Atmospheric Environment*, 183, 106-121, <https://doi.org/10.1016/j.atmosenv.2018.04.012>, 2018. [IF: 4.012, citations: 10]
17. Berjón, A., Redondas, A., Sildoja, M.-M., Nevas, S., Wilson, K., León-Luis, S. F., el Gawhary, O., and **Fountoulakis, I.:** **Sensitivity study of the instrumental temperature corrections on Brewer total ozone column measurements.** *Atmos. Meas. Tech.*, 11, 3323-3337, <https://doi.org/10.5194/amt-11-3323-2018>, 2018. [IF: 4.176, citations: 3]

2017

18. **Fountoulakis, I.**, Redondas, A., Lakkala, K., Berjon, A., Bais, A. F., Doppler, L., Feister, U., Heikkila, A., Karppinen, T., Karhu, J. M., Koskela, T., Garane, K., Fragkos, K., and Savastiouk, V.: **Temperature dependence of the Brewer global UV measurements.** *Atmos. Meas. Tech.*, 10, 4491-4505, <https://doi.org/10.5194/amt-10-4491-2017>, 2017. [IF: 4.176, citations: 7]
19. Zempila, M. M., Taylor, M., Koukouli, M. E., Lerot, C., Fragkos, K., **Fountoulakis, I.**, Bais, A., Balis, D., and van Roozendael, M.: **NILU-UV multi-filter radiometer total ozone columns: Comparison with satellite observations over Thessaloniki, Greece.** *Science of The Total Environment*, 590-591, 92-106, <https://doi.org/10.1016/j.scitotenv.2017.02.174>, 2017. [IF: 7.963, citations: 2]
20. Zempila, M.-M., van Geffen, J. H. G. M., Taylor, M., **Fountoulakis, I.**, Koukouli, M.-E., van Weele, M., van der A, R. J., Bais, A., Meleti, C., and Balis, D.: **TEMIS UV product validation using NILU-UV ground-based measurements in Thessaloniki, Greece.** *Atmos. Chem. Phys.*, 17, 7157-7174, <https://doi.org/10.5194/acp-17-7157-2017>, 2017. [IF: 6.333, citations: 20]

2016

21. Fragkos, K., Bais, A. F., **Fountoulakis, I.**, Balis, D., Tourpali, K., Meleti, C., and Zanis, P.: **Extreme total column ozone events and effects on UV solar radiation at Thessaloniki, Greece.** Theor Appl Climatol, 126, 505-517, <https://doi.org/10.1007/s00704-015-1562-3>, 2016. [IF: 3.375, citations: 13]
22. Zempila, M.-M., Koukouli, M.-E., Bais, A., **Fountoulakis, I.**, Arola, A., Kouremeti, N., and Balis, D.: **OMI/Aura UV product validation using NILU-UV ground-based measurements in Thessaloniki, Greece.** Atmospheric Environment, <https://dx.doi.org/10.1016/j.atmosenv.2016.06.009>, 140, 283-297, 2016. [IF: 4.012, citations: 18]
23. **Fountoulakis, I.**, A. Redondas, A. F. Bais, J. J. Rodriguez-Franco, K. Fragkos, and A. Cede: **Dead time effect on the Brewer measurements: correction and estimated uncertainties.** Atmos. Meas. Tech., 9(4), 1799-1816, <https://doi.org/10.5194/amt-9-1799-2016>, 2016. [IF: 4.176, citations: 10]
24. **Fountoulakis, I.**, A. F. Bais, K. Fragkos, C. Meleti, K. Tourpali, and M. M. Zempila, **Short- and long-term variability of spectral solar UV irradiance at Thessaloniki, Greece: effects of changes in aerosols, total ozone and clouds.** Atmos. Chem. Phys., 16(4), 2493-2505, <https://doi.org/10.5194/acp-16-2493-2016>, 2016. [IF: 6.333, citations: 29]

2015

25. **Fountoulakis, I.**, and A. F. Bais, **Projected changes in erythemal and vitamin D effective irradiance over northern-hemisphere high latitudes.** Photochemical & Photobiological Sciences, <https://doi.org/10.1039/c5pp00093a>, 2015. [IF: 3.982, citations: 5]

2014

26. **Fountoulakis, I.**, A. F. Bais, K. Tourpali, K. Fragkos, and S. Misios, **Projected changes in solar UV radiation in the Arctic and sub-Arctic Oceans: Effects from changes in reflectivity, ice transmittance, clouds, and ozone.** J. Geophys. Res. Atmos., 119, 8073–8090, <https://doi.org/10.1002/2014JD021918>, 2014. [IF: 4.260, citations: 14]

Annex II - List of conference presentations

2021

1. Papachristopoulou K., **Fountoulakis I.**, Kosmopoulos P., Kouroutsidis D., Raptis I.-P., Kontoes C., Hatzaki M., Kazadzis S.: Assessment of a newly developed short-term forecasting system (nextSENSE) of Downwelling Surface Solar Irradiance (DSSI) and validation with ground-based measurements, EGU, General Assembly, Vienna 19-30 April, 2021.
2. **Fountoulakis I.**, Papachristopoulou K., Proestakis E., Gkikas A., Raptis I.-P., Siomos N., Kontoes C., Kazadzis S.: Effect of aerosol vertical distribution on the transfer of solar radiation through the atmosphere, EGU, General Assembly, Vienna 19-30 April, 2021
3. Diémoz H., Fasano G., Scacchi L., Depaoli M., Siani A.M., Zublena M., Magri T., **Fountoulakis I.**: The SOUVENIR project - Solar UV Extensive Network for Information and Reporting. Annual Nordic Ozone and UV Group (NOG) meeting, Oslo, Norway, 20 – 21 April 2021
4. Petkov B. H., Vitale V., Di Carlo P., Mazzola M., Lupi A., Diémoz H., **Fountoulakis I.**; Drofa O., Mastrangelo D., Siani A.M., Casale G. R.: Deplezione dell'ozono artico e suo impatto sulle medie latitudini. 3° Congresso Nazionale dell'Associazione Italiana di Scienze dell'Atmosfera e Meteorologia, L'Aquila, Italy, 9 – 12 February 2021
5. H. Diémoz, L. Scacchi, M. Depaoli, A.M. Siani, M. Zublena, T. Magri, **I. Fountoulakis**: The SOUVENIR project - Solar UV Extensive Network for Information and Reporting. 3° Congresso Nazionale dell'Associazione Italiana di Scienze dell'Atmosfera e Meteorologia, L'Aquila, Italy, 9 – 12 February 2021
6. G. Fasano, H. Diémoz, **I. Fountoulakis**, C. Cassardo, R. Kudo: Profilo verticale dell'effetto radiativo diretto dell'aerosol in un contesto alpino, dalla sinergia tra misure da terra e modelli di trasferimento radiativo. 3° Congresso Nazionale dell'Associazione Italiana di Scienze dell'Atmosfera e Meteorologia, L'Aquila, Italy, 9 – 12 February 2021

2020

7. N. Siomos, K. –A. Voudouri, A. Karanikolas, **I. Fountoulakis**, K. Michailidis, K. Garane, A. Natsis, A. Bais, and D. Balis: Investigating variations in the aerosol load over Thessaloniki during the COVID-19 lock-down period in Greece using the remote sensing infrastructure of PANACEA. Second scientific conference PANACEA, web conference, 29 September – 1 October 2020
8. K. –A. Voudouri, N. Siomos, A. Karanikolas, A. Natsis, **I. Fountoulakis**, G. Kouvarakis, K. Michailidis, K. Garane, A. Bais, and D. Balis: Overview of the two PANACEA campaigns for Thessaloniki station: Aerosol typing from remote sensing techniques and in situ data. Second scientific conference PANACEA, web conference, 29 September – 1 October 2020

2019

9. **Fountoulakis I.**, H. Diémoz, A.M. Siani, G. R. Casale, T. Magri, and G. Filippa: A comparative study between the variability of spectral solar UV irradiance at Rome and Aosta, Italy: the role of total ozone, air quality and meteorological conditions. 2o Congresso Nazionale AISAM, Naples, 24-26 September 2019
10. T. Drosoglou, N. Siomos, **I. Fountoulakis**, A. Natsis, and A. Bais: Vertical distribution of ozone in the lower troposphere from MAX-DOAS measurements over Thessaloniki, Greece. First scientific conference PANACEA, Heraklion, Greece, 23 – 24 September 2019
11. N. Siomos, D. Balis, A. Bais, M.E. Koukouli, K. Garane, K. A. Voudouri, F. Gkertsis, A. Natsis, D. Karagkiozidis, M. Mermigkas, and **I. Fountoulakis**: Towards an Algorithm for near real-time profiling of Aerosol Species, Trace Gases, and Clouds based on the synergy of Remote Sensing Instruments. First scientific conference PANACEA, Heraklion, Greece, 23 – 24 September 2019

12. **Fountoulakis I.**, H. Diémoz, A.M. Siani, T. Magri, and G. Filippa: A comparative study between the variability of spectral solar UV irradiance at the low altitude urban site of Rome and the alpine site of Aosta, Italy: the role of total ozone and meteorological conditions. 35th International Conference on Alpine Meteorology (ICAM), Riva del Garda, Italy, 2 - 6 September 2019
13. A. Natsis, **I. Fountoulakis**, N. Siomos, D. Karagiozidis, T. Drosoglou, C. Meleti, and A. Bais: Retrieval of Aerosol Optical Depth in the UV from a single- and a double-monochromator Brewer spectrophotometer in Thessaloniki, Greece. European Aerosol Conference 2019, Gothenburg, Sweden, 25-30 Aug 2019
14. N. Siomos, **I. Fountoulakis**, A. Natsis, T. Drosoglou, and A. Bais: Temporal Variations of the Predominant Aerosol Types during a 19-year Period in Thessaloniki, Greece. European Aerosol Conference 2019, Gothenburg, Sweden, 25-30 Aug 2019
15. C. Zerefos, K. Eleftheratos, J. Kapsomenakis, A. Bais, and **I. Fountoulakis**: A note on the decadal evolution of ozone profiles and erythemal doses at ground level. 27th IUGG general assembly, Toronto, Canada, July 8 – 18, 2019
16. **Fountoulakis I.**, and H. Diémoz: Monitoring of spectral UV irradiance in Aosta, Saint-Christophe, Italy: from measurements to data analysis. VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019
17. **Fountoulakis I.**, H. Diémoz, A.M. Siani, C.S. Zerefos, A.F. Bais, J. Kapsomenakis, M.E. Koukouli, H. De Backer, K. Lakkala, T. Karppinen, A. R. Webb, and A. Arola: Solar UV irradiance: trends and effects from atmospheric and meteorological changes. VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019
18. N. Siomos, D. Balis, A. Bais, M. Koukouli, K. Garane, K. A. Voudouri, F. Gkertsis, A. Natsis, D. Karagiozidis, and **I. Fountoulakis**: Towards an algorithm for near real time profiling of aerosol species, trace gases, and clouds based on the synergy of remote sensing instruments, 29th International Laser Radar Conference (ILRC29), Hefei, China, June 24-28, 2019
19. A. Emmanouilidis, **I. Fountoulakis**, K. Tourpali, T. Natsis, I. Logothetis, and A. Bais: Projected changes of the erythemal solar radiation: Effects from changes in surface reflectivity, ozone, aerosols, and clouds, EGU, General Assembly, Vienna 7-12 April, 2019.
20. K. Lakkala, J. Kujanpää, N. Kalakoski, A. Bais, **I. Fountoulakis**, B. Johnsen, T. Svendby, S. Hassinen, A. Heikkilä, and J. Hovila: Validation of AC SAF UV record product, NOG meeting, Chilton, UK, 26 – 27 March, 2019
21. C. Zerefos K. Eleftheratos, J. Kapsomenakis, A. Bais, **I. Fountoulakis**, A. Sovde Haslerud, S. Godin-Beekmann, W. Steinbrecht, and I. Petropavlovskikh: A note on possible effects of the unexpected increase in global CFC-11 to ozone profiles and erythemal doses at ground level, International Symposium On: The Unexpected Increase in Emissions of Ozone-Depleting CFC-11, Vienna, Austria, March 25-27, 2019

2018

22. H. Diémoz, **I. Fountoulakis**, and A.M. Siani: 12 years of solar UV monitoring in the Aosta Valley, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
23. J. Gröbner, A. Redondas, K. Lakkala, A. Serrano, J.M. Vilaplana, S.F. León-Luis, T. Karppinen, and **I. Fountoulakis**, G. Hülsen, L. Egli, and J. Rimmer: Spectral UV measurements within EUBREWNET, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
24. A. Emmanouilidis, **I. Fountoulakis**, K. Tourpali, T. Natsis, I. Logothetis, A. Bais, K. Lakkala, and V. De Bock: Global projections of the solar erythemal UV radiation in the 21st century, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018

25. D. Karagiozidis, **I. Fountoulakis**, A.F. Bais, K. Garane, T. Drosoglou, and A. Natsis: [Optimization of the AOD retrieval from direct sun spectral UV measurements by a Brewer spectrophotometer](#), in Thessaloniki, Greece, European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
26. A.M., Siani Casale G.R., H. Diémoz, **I. Fountoulakis**, M. Pedone, and A. Colosimo: [Analysis of the Reconstructed Daily UVI Time-Series from the COST-726 data at Two Different Italian Sites](#), European Conference on Solar UV Monitoring (ECUVM), “UV Monitoring in the European Countries - Past, Present and Future”, Vienna, Austria, 12. - 14. September 2018
27. F. Gkertsis, A. Bais, N. Kouremeti, T.Drosoglou, **I. Fountoulakis** and K. Fragkos: [Total ozone column retrieval from three Phaethon DOAS systems in Thessaloniki, Greece](#), 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
28. N. Siomos, **I. Fountoulakis**, A. Natsis, D. Karagiozidis, T. Drosoglou, K. A. Voudouri, A. Bais and D. Balis: [Aerosol classification based on the synergy of Brewer spectrophotometer and sunphotometer measurements](#), 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
29. T. Drosoglou, N.Siomos, **I. Fountoulakis**, K. A. Voudouri, D. Karagiozidis, A. Natsis, F. Hendrick, D. Balis, A. F. Bais, E. Marinou, V. Amiridis and M. Van Roozendael: [Aerosol profile retrievals from O4 MAX-DOAS observations in Thessaloniki, Greece, and comparison with data from co-located lidar, Brewer and CIMEL](#), 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
30. A. Natsis, **I. Fountoulakis**, N. Siomos, T. Drosoglou and A. Bais: [Twenty years of UV aerosol optical depth measurements by a Brewer spectrophotometer over Thessaloniki, Greece](#), 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
31. **I. Fountoulakis**, A. Natsis, N. Siomos, T. Drosoglou, A. Bais, D. Balis and S. Kazadzis: [Measurements of the aerosol single scattering albedo in the UV over Thessaloniki, Greece](#), 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
32. A. Emmanouilidis, **I. Fountoulakis**, K. Tourpali, A. Natsis, I. Logothetis and A. Bais: [Global Projections of the solar erythemat UV radiation in the 21st century](#), 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018
33. T. Drosoglou, N. Siomos, **I. Fountoulakis**, A. Natsis, and A.F. Bais: [MAX-DOAS aerosol retrievals with the aid of co-located lidar profiles and comparisons with aerosol optical depth from Brewer spectrophotometer and CIMEL sun photometer](#), EGU, General Assembly, Vienna 8-13 April, 2018.
34. K. Fragkos, I. Petropavlovskikh, M. Dotsas, A. Bais, M. Taylor, D. Hurtmans, **I. Fountoulakis**, M. E. Koukouli, D. Balis, and M. Stanek: [Umkehr ozone profiles over Thessaloniki and comparison with satellite overpasses](#), EGU, General Assembly, Vienna 8-13 April, 2018.

2016

35. M. M. Zempila, M. Taylor, M. E. Koukouli, C. Lerot, A. Bais, K. Fragkos, **I. Fountoulakis**, D. Balis, M. van Roozendael, N. Kouremeti, and S. Kazadzis: [Evaluation of Satellite Total Ozone Observations with a ground-based NILU-UV Radiometer: in preparation for TROPOMI/S5P](#), Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016
36. M. M. Zempila, M. Taylor, M. E. Koukouli, **I. Fountoulakis**, A. Bais, A. Arola, J. van Geffen, M. van Weele, R. van der A, C. Meleti, D. Balis, N. Kouremeti, and S. Kazadzis: [Evaluation of Satellite Photobiological Effective Dose Products with a ground-based NILU-UV Radiometer: in preparation for TROPOMI/S5P](#), Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016

37. M. M. Zempila, M. E. Koukouli, A. Bais, A. Arola, **I. Fountoulakis**, N. Kouremeti, S. Kazadzis, and D. Balis: [Evaluation of OMI Surface UV Irradiances against NILU-UV Measurements: in preparation for TROPOMI/SSP](#), Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016
38. N. Peinado-Galan, O. Garcia, X. Calbet, E. Lopez-Baeza, E. Sepulveda, M. Koukouli, I. Zyrichidou, **I. Fountoulakis**, D. Balis, A. Bais, A. Redondas, T. Karppinen, J. López-Solano, and B. Hernández-Cruz: [Comparison of IASI/MetopA and OMI/Aura ozone column amounts with eubrewnet ground-based measurements](#), EUMETSAT Conference 2016, Darmstadt, Germany, 26 - 30 September 2016
39. F. Gkertsis, A. Bais, T. Drosoglou, K. Fragos and **I. Fountoulakis**: [Total ozone data retrieval from the Phaethon DOAS system](#), 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016
40. M. Zempila, M. Taylor, A. Bais, **I. Fountoulakis**, S. Kazadzis and K. Fragkos: [Introducing a cloud screening detector using global horizontal irradiances in UV and PAR in Thessaloniki, Greece](#), 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016
41. K. Fragkos, M. Taylor, A. Bais, **I. Fountoulakis**, K. Tourpali, C. Meleti and M. M. Zempila: [Multi-decadal trend analysis of total columnar ozone over Thessaloniki](#), 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016
42. **I. Fountoulakis**, A.F. Bais, K. Fragkos, C. Meleti, K. Tourpali, M.M. Zempila, and K. Garane : [Effects of changes in aerosols, total ozone and clouds on the short- and long-term variability of the spectral solar UV irradiance over Thessaloniki, Greece](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
43. B. Hernández-Cruz, A. Redondas, M. Rodríguez Valido, J. López-Solano, S. F. León-Luis, V. Carreño, A. Berjón, D. Santana-Díaz, J. Rimmer, J. Gröbner, **I. Fountoulakis**, T. Karppinen, and H. Diémoz: [A European Brewer Network: Web Tools for Ozone Data Process and Configuration Interface](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
44. M. E. Koukouli, C. Lerot, K. Fragkos, **I. Fountoulakis**, M. M. Zempila, M. Taylor, D. Balis, A. Bais, and M. van Roozendael: [Validation of the long term ESA Ozone-CCI GODFIT_v3 Total Ozone Record using three different ground-based instruments at a Northern mid-latitude station](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
45. K. Fragkos, I. Petropavlovskikh, A.F. Bais, **I. Fountoulakis**, and M. Stanek: [Umkehr ozone profiles in Thessaloniki and comparison with MLS overpasses](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
46. **I. Fountoulakis**, A. Redondas, A.F. Bais, J.J. Rodriguez-Franco, K. Fragkos, and A.Cede: [Dead time effect on the Brewer measurements of spectral UV irradiance and TOC: correction and estimated uncertainties](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
47. **I. Fountoulakis**, A.F. Bais, K. Lakkala, Z. Toth, V. De Bock, H. Diémoz, L. Doppler, U. Feister, K. Fragkos, J. Gröbner, A. Heikkilä, T. Karppinen, T. Koskela, J.M. San Atanasio, A.M. Siani, and A.R.D. Smedley: [Temperature dependence of the Brewer spectral UV and total ozone column measurements](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
48. M.M. Zempila, M. Taylor, M.E. Koukouli, A. Bais, C. Lerot, K. Fragkos, **I. Fountoulakis**, T. Drosoglou, F. Gkertsis, S. Kazadzis, D. Balis, and M. van Roozendael: [High frequency retrieval of total ozone from a ground-based NILU-UV radiometer using a neural network model: validation of the model and evaluation of satellite observations](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016
49. N. Peinado-Galán, X. Calbet, O.E. García, E. López-Baeza, A. Redondas, E. Sepúlveda, M. E. Koukouli, I. Zyrichidou,

I. Fountoulakis, D. Balis, A. Bais, T. Karppinen, J. López-Solano, B. Hernández-Cruz, and M. E. Sanromá: [Quality assessment of IASI/Metop-A and OMI/Aura ozone column amounts by using EUBREWNET ground-based measurements](#), Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

50. Zempila M. M., Koukouli M. E., Bais, A., Arola A., **Fountoulakis I.**, Kouremeti N., Kazadzis S., Balis D.: [Long-term comparisons of OMI surface UV irradiances with a NILU-UV multi-filter actinometer in Thessaloniki, Greece](#), ESA Living Planet Symposium 2016, Prague, Czech Republic, 9-13 May 2016
51. Zempila M. M., Taylor M., **Fountoulakis I.**, Koukouli M. E., Bais, A., Kouremeti, N., Kazadzis, S., Meleti, C., Balis, D.: [CIE, Vitamin D and DNA damage: A synergetic study in Thessaloniki, Greece](#), ESA Living Planet Symposium 2016, Prague, Czech Republic, 9-13 May 2016

2015

52. A. Kazantzidis, A.Smedley, R. Kift, J. Rimmer, J. Berry, **I. Fountoulakis**, T. Koskela, L. E. Rhodes, and A. R. Webb: [A database of solar UV availability across Europe](#), European Society of Photobiology 2015 Congress, Aveiro, Portugal, 31 August - 4 September, 2015
53. K. Fragkos, A.F. Bais, **I. Fountoulakis**, D.S. Balis, K. Tourpali, and C. Meleti: [Effects of extreme total column ozone events on UV solar radiation in an urban environment](#), 26th IUGG General Assembly 2015, Prague, Czech Republic, 22 June – 2 July, 2015
54. **I. Fountoulakis**, A.F. Bais, K. Tourpali, and S. Misios: [Projected changes in solar UV radiation over the high latitudes of the southern and the northern hemisphere](#), 26th IUGG General Assembly 2015, Prague, Czech Republic, 22 June – 2 July, 2015

2014

55. Bais A., Kazantzidis A., Giannaros T., Kazadzis S., Nikitidou E., Zempila M.M., Tzoumanikas P., Salamalikis V., Melas D., Zerefos C., Fragkos K., **Fountoulakis I.**, Drosoglou T. and Kotti M.C.: [The Greek Solar Energy Network](#), 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014
56. Zempila M.M., Bais A., Kouremeti N., Meleti C. and **Fountoulakis I.**: [Measurements of UV Solar Radiation and Estimated Products in Thessaloniki from a NILU-UV multichannel radiometer](#), 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014
57. Fragkos K., Bais A.F., Meleti C., **Fountoulakis I.**, Tourpali K., Balis D. and Zerefos C.S.: [Variability of a thirty-year record of total ozone derived from a Brewer spectrophotometer at Thessaloniki and the SBUV version 8.6](#), 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014
58. **Fountoulakis I.**, Bais A.F., Fragkos K., Meleti C., Zempila M.M., Kouremeti N., and Tourpali K.: [Long-term trends and climatology of spectral surface UV irradiance at Thessaloniki, Greece](#), 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014

2013

59. Bais A.F., Giannaros T.M., Kazantzidis A., Melas D., Fragkos K., **Fountoulakis I.** and Nikitidou E., [The helenic network of solar energy: evaluation of short term predictions in comparison to measurements](#), 13th International Conference on Environmental Science and Technology (CEST), 5-7 September, 2013, Athens, Greece
60. **I. Fountoulakis**, A. F. Bais, K. Fragkos, S. Misios, and K. Tourpali, [Projections of UV irradiation over an Arctic Ocean region using ozone and surface reflectivity from five Earth System Models](#), DACA 2013, Davos, 8 – 12 July 2013

2012

61. A.F. Bais, A. Kazantzidis, P. Tzoumanikas, E. Nikitidou, T. Giannaros, D. Melas, C. Meleti, H. Kambezidis, V. Salamalikis, K. Fragkos, and **I. Fountoulakis**, [Estimation of solar irradiance from satellite data and numerical weather predictions over Greece](#), International Radiation Symposium 2012, Dahlem Cube, Berlin, Germany, 6 – 10 August 2012

Annex III - List of research projects

Working period	Role	Project	Source	Project period
11/2020 - present	Researcher	EXCELSIOR CoE – ERATOSTHENES: Excellence Research Centre for Earth Surveillance and Space-Based Monitoring of the Environment	H2020-EU.4.a. - Teaming of excellent research institutions and low performing RDI regions	2019 - 2026
01/2018 – 11/2020	Researcher	Espletamento di attività tecniche inerenti la misura della radiazione solare ultravioletta per l' avvio di un laboratorio ottico, di competenza della Sezione aria ed atmosfera	Agenzia regionale Per la Protezione dell'Ambiente della Valle d' Aosta (ARPA)	2018 - 2020
06/2018 – 02/2020	Researcher	Optimization and application of methods for ground-based remote sensing of aerosols and ozone in the lower troposphere for investigating their variability	Human Resources Development, Education and Lifelong Learning 2014-2020 (European Social Fund - ESF); MIS 5004486	2018 - 2020
09/2014 – 12/2017 09/2012 – 12/2013	Researcher	eEnviPer - "A single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-Government services and applications".	CIP - Competitiveness and innovation framework programme (CIP), (2007-2013)	2012 - 2017
09/2017 – 12/2017	Researcher	Brewer Total Ozone Columns and Aerosol Optical Depths for Omi Validation	Fundación Canaria General de Universidad de La Laguna G-38083408 (ESA)	2017 - 2018
09/2016 – 12/2016	Researcher	Traceability for atmospheric total column ozone (ATMOZ)	European metrology Research Program, jointly funded by the EMRP participating countries within EURAMET and the European Union.	2014 - 2017
02/2016 – 08/2016	Researcher	QA4ECV - Quality Assurance for Essential Climate Variables	European Union FP7 Space 2013-1 Project	2014 – 2017
01/2014 – 12/2017	Researcher	COST 1207 – EuBrewNet “A European Brewer Network”	European Union COST Action	2014 - 2017
01/2014 – 12/2014	Researcher	SOLID (First European SOLAR Irradiance Data Exploitation)	European Union FP7 Space 2012-1 Project	2012 -2015
06/2011 – 07/2012	Post-graduate Research Assistant	EDHE – “Hellenic Network of Solar Energy”.	European Commission – Communications Networks, Content and Technology.	2011 - 2013
03/2011 – 04/2011	Post-graduate Research Assistant	Stratospheric-Climatic Links with Emphasis on the Upper Troposphere and Lower Stratosphere (SCOUT-O3).	European Union FP6 – SUSTDEV.	2004 - 2009
11/2010	Post-graduate Research Assistant	Absolute calibration of UVA and UVB actinometers.	Lithuanian Hydrometeorological Service.	2010
04/2010 – 10/2010	Post-graduate Research Assistant	Comparison between ground based and satellite measurements of the total column of NO ₂ , NO ₂ VAL.	ESA	2007 - 2009