



# UNIVERSIDAD DE GRANADA

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Grupo de investigación  
Física de la Atmósfera  
(RNM119)

## **AGORA International Doctoral Summer School: training school on atmospheric characterization using in-situ and remote sensing techniques (3rd edition)**

**Dates:** 1st - 19th June 2026

**Format:** Hybrid

**Venue:** Andalusian Inter-University Institute for Earth System Research (IISTA-CEAMA), Granada, Spain

After the success of the first and second editions of the AGORA aerosol training school: characterization of atmospheric aerosol using in-situ and remote sensing techniques, organized in the framework of the ATMO-ACCESS project, we are pleased to announce the third edition of this school. The AGORA training school aims to add a training dimension to research infrastructures using both physical and remote access. This edition is co-organized by the Doctoral School of Sciences, Technologies and Engineering of the University of Granada, the MSCA-SE project AERIS and the Cost Action EARLICOST.

### **Target group:**

The training school is intended mainly for researchers and technicians from the atmospheric field. Trainees must have previous knowledge of atmospheric sciences, at least in one of the measurement techniques. They could be advanced master students, doctoral students, early-career scientists, or technicians. Good communication skills in English are required.

**Please, note that the number of participants is limited to 24.**

### **Course contents and learning outcomes:**

The lectures provide fundamental knowledge in novel, advanced techniques for measuring atmospheric properties, covering in situ, remote sensing, and laboratory-based instruments. This hybrid training school will be held face-to-face at the Andalusian Global Observatory of the Atmosphere (AGORA) in Granada (Spain), including a visit to the Sierra Nevada station and hands-on training for some novel instruments. It is combined with remote activities the week before (2 days) and after (<http://atmosphere.ugr.es/>). Interactive face-to-face lectures are planned from Monday 8th to Friday 12th June (09:30 - 17:30 CET) and the visit to the Sierra Nevada station on Saturday 13th June. All participants will obtain a certificate for their participation

## School fee, accommodation & meals:

The training school fee is €550 per participant.

This includes coffee breaks and lunch at the school venue (Monday to Friday), as well as accommodation in double rooms with breakfast at the **UGR guesthouse** (check-in: Sunday, June 7; check-out: Sunday, June 14, 2026).

Up to 5 places are reserved for students from universities belonging to the Arqus Alliance, who will be exempt from registration.

The fee must be paid in advance via bank transfer by **30th April 2026** at the latest. Payment details will be provided after acceptance letters are issued.

## Lecturers:

Invited lecturers are top-level experts from the ACTRIS facilities for aerosol in-situ and remote sensing measurements. Confirmed Lecturers:

NAME	INSTITUTION
Dr. Lucas Alados-Arboledas	University of Granada (Spain)
Dr. Andrés Alastuey	IDAEA-CSIC (Spain)
Dr. Elisabeth Andrews	NOAA (United States)
Dr. Daniele Bortoli	University of Évora (Portugal)
Dr. Martine Collaud-Coen	MeteoSwiss (Switzerland)
Dr. Alexander Geiß	University of Munich (Germany)
Dr. Martin Gysel-Beer	Paul Scherrer Institute (Switzerland)
Dr. Milagros Herrera	GRASP-SAS (France)

NAME	INSTITUTION
Dr. Stelios Kazadzis	World Radiation Center (Switzerland)
Dr. Griša Močnik	University of Nova Gorica (Slovenia)
Dr. Dmitri Moisseev	University of Helsinki (Finland)
Dr. Detlef Müller	Wuhan University (China)
Dr. Doina Nicolae	INOE (Romania)
Dr. Ingrida Šaulienė	Vilnius University (Lithuania)
Dr. Boyan Tatarov	University of Hertfordshire (United Kingdom)
Dr. Antonio Valenzuela	University of Granada (Spain)

Hands-on and scientific projects are going to be given by top-level researchers from the ACTRIS facilities for aerosol in-situ and remote sensing measurements. Confirmed researchers:

NAME	INSTITUTION
MSc. Jesús Abril-Gago	University of Granada (Spain)
Dr. Lucas Alados-Arboledas	University of Granada (Spain)
MSc. Elena Bazo	University of Granada (Spain)
Dr. Daniele Bortoli	University of Évora (Portugal)
Dr. Juan Antonio Bravo-Aranda	University of Granada (Spain)

NAME	INSTITUTION
Dr. Paloma Cariñanos	University of Granada (Spain)
Dr. Sonia Castillo	University of Granada (Spain)
Dr. Alberto Cazorla	University of Granada (Spain)
Dr. Ana del Águila	University of Granada (Spain)
MSc. Arlett Díaz-Zurita	University of Granada (Spain)
MSc. Sol Fernández-Carvelo	University of Granada (Spain)
Dr. María José Granados-Muñoz	University of Granada (Spain)
Dr. Juan Luis Guerrero-Rascado	University of Granada (Spain)
Dr. Juan Vicente Pallotta	CITEDEF (Argentina)
MSc. Víctor Manuel Naval Hernández	University of Granada (Spain)
MSc. Olga Ruiz Galera	University of Granada (Spain)
MSc. Gema Sánchez-Jiménez	University of Granada (Spain)
Dr. Boyan Tatarov	University of Hertfordshire (United Kingdom)
Dr. Gloria Titos	University of Granada (Spain)

NAME	INSTITUTION
Dr. Carlos Toledano	University of Valladolid (Spain)
MSc. Matheus Tolentino	University of Granada (Spain)
Dr. Antonio Valenzuela	University of Granada (Spain)

## Training school organizers:

The training school is organized by the ACTRIS Observational Facility AGORA-UGR. In case of any questions about the training school, please, contact Lucas Alados-Arboledas and Juan Luis Guerrero-Rascado (@email), Andalusian Institute for Earth System Research. University of Granada.

## Program:

The training school is scheduled as follows:

- Remote (introduction): 1st-2nd June 2026
- Physical (lectures): 8th-12th June 2026
- Physical (visit to Sierra Nevada station): 13th June 2026
- Remote (research projects): 15th-19th June 2026

The program schedule is divided into three main phases: Remote (1st-2nd June), Physical (8th-13th June), and Remote (15th-19th June). The Physical phase includes a visit to the Sierra Nevada station on June 13th. The schedule is color-coded by activity type: Lectures (green), Hands-on (orange), and Discussions (purple).

DATE	1st - 2nd June 2026	8th - 12th June 2026	13th June 2026	15th - 19th June 2026
Activity	Lectures	Lectures	Hands-on	Discussions
Topic	Introduction to research projects	Introduction to research projects	Visit Sierra Nevada station	Discussions sessions between groups and supervisors

### **Tuesday hands-on:**

- Lidar quality assurance: check-up tools, by Dr. Juan Antonio Bravo-Aranda and MSc. Jesús Abril-Gago
- Spectroscopy laboratory, by Dr. Antonio Valenzuela Gutiérrez and MSc. Gema Sánchez-Jiménez
- Air quality mobile station, by Dr. Sonia Castillo and Dr. Ana del Águila
- Radar calibration. by Dr. María José Granados-Muñoz and MSc. Matheus Tolentino

### **Thursday hands-on:**

- Spectroscopic lidar, by Dr. Boyan Tatarov and MSc. Sol Fernández-Carvelo
- Integrating nephelometer and in situ absorption, by Dr. Gloria Titos and MSc. Elena Bazo
- Bioaerosols sensors, by Dr. Paloma Cariñanos
- Sun-photometry, by Dr. Carlos Toledano

## **How to apply:**

Please fill the form at:

AGORA Training School Application Form

The application deadline is **28th February 2026 (23:59 CET)**. Applicants will be notified latest by **13th March 2026**.

A limited number of grants for travel and accommodation will be offered upon request. Criteria and scale can be checked [here](#).

## **Venue:**

Andalusian Inter-University Institute for Earth System Research (IISTA-CEAMA)  
. Avenida del Mediterráneo, s/n, 18006, Granada, Spain

In the following link we provide you with important information for your arrival and stay in Granada [Visitors Guideline](#).

## Organized by



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