



Maria Gerontidou

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WORK EXPERIENCE

Research deputy manager

National and Kapodistrian University of Athens, Physics Department [2013 – Current]

City: Athens | Country: Greece

As a senior member of cosmic ray group of Physics department of National and Kapodistrian University of Athens (NKUA) I am serving as a deputy manager of the expert group named ANeMoS (Athens Neutron Monitor) participated to ESA Space Weather Network Project. The ANeMoS expert group is one of the contributors to Expert Service Center "Space Radiation" of Space Weather portal of European Space Agency ESA (<https://swe.ssa.esa.int/web/guest/space-radiation>)

Academic teaching Staff

National and Kapodistrian University of Athens, Nuclear and Particle Physics Department [

2009 – Current]

City: Athens | Country: Greece

- Expertise area " experimental physics of elementary particles / Cosmic ray radiation"
- My duties include supervising hands-on educational activities at nuclear and particle physics laboratories and lectures for cosmic ray radiation in Physics Department of National and Kapodistrian University of Athens (NKUA), Greece as well.

Post-doctoral Researcher

National and Kapodistrian University of Athens, Nuclear and Particle Physics Department. [2008 – 2009]

City: Athens | Country: Greece

- Conduct investigation addressing to solar energetic particles affecting on space radiation, Nuclear and Particle Physic Department, Physics Faculty, NKUA (founded by IKY State Scholarship Foundation)

Scientific collaborator

National and Kapodistrian University of Athens, Nuclear and Particle Physics Department [2007 – 2009]

City: Athens | Country: Greece

I delved into research on topics related to nuclear and partivle physics.

Senior Scientist

National and Kapodistrian University of Athens, Nuclear and Particle Physics Department [

2000 – Current]

City: Athens | Country: Greece

I am senior member of Athens Cosmic Ray group, Athens Neutron Monitor Station (A.Ne.Mo.S) (<http://cosray.phys.uoa.gr>), NKUA, Greece and my duties are:

1. Monitoring and assessing registration system of Neutron Monitor detector (review data logs, recordings maintenance)

2. Data management
3. Data processing
4. Conducting scientific research projects, totaling 21 European and Greek initiatives.

EDUCATION AND TRAINING

Doctor of Philosophy (Ph.D.) in Science

National and Kapodistrian University of Athens, Physics Faculty [2007]

City: Athens | Country: Greece | Website: <https://en.phys.uoa.gr/>

Master of Science (MSc) in Nuclear and Particle Physics

National and Kapodistrian University of Athens, Greece [1999]

City: Athens | Country: Greece | Website: <https://en.phys.uoa.gr/>

Bachelor of Science (BSc)

National and Kapodistrian University of Athens, Physics Faculty [1996]

City: Athens | Country: Greece | Website: <https://en.phys.uoa.gr/>

LANGUAGE SKILLS

Mother tongue(s): Greek

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

German

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Excel / Microsoft Powerpoint / Social Media / LinkedIn / Zoom / Google Drive / Google Docs / Microsoft Office

ACHIEVEMENTS

[Current]

Physicist, PhD

1. Novel Research to the scientific topic of Space Radiation. As a senior member of NKUA Cosmic Ray Group my contribution was crucial to the implementation and maintenance of three federated products provided in ESA portal (<https://swe.ssa.esa.int/web/guest/space-radiation>).
2. Main results of my PhD thesis that were published in the scientific journal Solar Physics 229,1,135-159,2005 were requested to be considered in the design of an experiment onboarded to Solar Orbiter and Sentinels satellites missions.
3. Managing Neutron Monitor data over an extended time period (from 2000 up to now) is a significant task, ensuring reliable data for scientific and practical purposes.

PUBLICATIONS

Physicist, PhD

I have 84 peer-reviewed scientific publications with 953 citations and h-index=16 (Google scholar)

Note that two publications in 2024 refereed to the implementation of space related application

- "An Assessment of the GLE Alert++ Warning System", *Atmosphere* **2024**, 15(3), 345; <https://doi.org/10.3390/atmos15030345>"
- Very High Energy Solar Energetic Particle Events and Ground Level Enhancement Events: Forecasting and Alerts, *Space Weather*, 2024, *Volume22, Issue9*, e2023SW003839, <https://doi.org/10.1029/2023SW003839>

I am Guest Editor of Special Issue "Solar Energetic Particle" Universe, MDPI, https://www.mdpi.com/journal/universe/special_issues/_SEP and Referee in Scientific journals: *Solar Physics*, *Space Weather*, *Universe*, *Fluids*

CONFERENCES AND SEMINARS

Physicist, PhD

I have participated in >40 conferences with oral and poster contribution.

I was in Conference Organizing Committee of the following Workshops:

- NMDB Workshop on Data Quality, 11-13 Mar, 2011, Athens
- NMDB Meeting 05-07 March, 2019
- SSA – P3-SWE-XXIII User Requirements for the Mediterranean Region"
- ESA ITT AO/1-9408/18/D/CT (SWE MED) Greek Workshop 23.09.2019
- NMDB@Athens, Athens / hybrid, 26.-30.09.2022
- NMDB2025: Athens" Cosmic Ray studies with Neutron Detectors"

PROJECTS

Physicist, PhD

I have participate in total 21 European and Greek research projects.