

# CURRICULUM VITAE - IOANNIDOU ALEXANDRA

## A. GENERAL INFORMATION

Name : IOANNIDOU ALEXANDRA

Present Position with  
Mailing Address :



Head of School of Physics  
(<https://www.physics.auth.gr/en/administration>)  
Professor, Nuclear Phys & Elementary Particles Phys Division  
School of Physics, Faculty of Science  
Aristotle University of Thessaloniki (AUTH)  
54124 Thessaloniki - GREECE  
Phone: +30-2310-998599 (Office) +30 6970837650 (mobile)  
e-mail address : [anta@physics.auth.gr](mailto:anta@physics.auth.gr)

## B. EDUCATION

- 1995 PhD in Physics  
*School of Physics, Faculty of Science, Aristotle University of Thessaloniki (AUTH), Greece*
- 1989 Graduate in Physics  
*School of Physics, Faculty of Science, Aristotle University of Thessaloniki (AUTH), Greece*

### B1. SCHOLARSHIPS

Greek State Scholarship Foundation, (Contr. No 27037.06.9, 27<sup>th</sup> program 1993-95)

## C. WORKING EXPERIENCE

- Sep '22-now Head of School of Physics, AUTH
- Sep 20-Sep '22 Deputy Head of School of Physics, AUTH
- Oct 2021- now Vice Chair of the Hellenic Nuclear Physics Society
- 2021-now Professor, Nuclear Phys. Lab, School of Physics., AUTH
- 2017- 2018 Head of the Division of Nuclear Physics and Elementary Particles Physics, School of Physics, AUTH
- 2016 - now Visiting Professor, Physics Department, Università degli Studi di Milano, Italy
- 2016 - 2021 Associate Professor, Nuclear Phys. Lab, School of Physics, AUTH
- 2009 - 2015 Assistant Professor, Nuclear Phys. Lab, School of Physics, AUTH
- 2004 - 2009 Lecturer, Nuclear Phys. Lab, School of Physics, AUTH
- 2000 - 2004 Scientific Staff, Nuclear Phys. Lab, School of Physics, AUTH
- 1998 - 2000 Researcher, Nuclear Phys. Lab, School of Physics, AUTH
- 1995 - 1998 PostDoc, Nuclear Phys. Lab, School of Physics, AUTH

## D. RESEARCH ACTIVITIES - PUBLICATIONS

Alexandra Ioannidou has more than 25 years of experience on basic and applied research on radiation physics and isotopes, environmental radioactivity – radioecology, on radioactive aerosols and their behavior in the atmosphere, environmental radioactivity from Chernobyl and Fukushima accident and effects of radioactive pollutants in the ecosystem, NORM/TENORM studies in atmosphere, aquatic environments (lake, river, ground water), agriculture, Radon: indoor/outdoor concentrations.

As Radiation Protection Expert Certified by the regulatory body (Greek Atomic Energy Commission: GAEC), she developed knowledge in her field and her expertise extends outside of academia, as proven by:

- her experience and active participation in radiation control of radioactive sources used in various industries and organizations in Greece;
- her experience and long lasting collaborations with metallurgic companies in Greece in avoiding radiological accidents by controlling radioactive material inadvertently incorporated into scrap metal,
- by being the Scientific Responsible for the IAEA - CRP J02014 "Repair and Calibration of Malfunctioned Radiation Detection" and having great experience with all type of radiation detectors (portals and portable detectors) for nuclear security
- her expertise in environmental radioactivity studies and radiation monitoring mainly by gamma spectrometry in all environmental samples and matrixes and estimation of doses to biota (proven by my more than 180 publication in International scientific journals and conference proceedings)

Furthermore, the Radiation Physics and Environmental Radioactivity Lab, where she belongs, has the necessary infrastructure and personnel, the members of the Lab are radiation protection experts, specialist in gamma-spectrometry, radiation dosimetry and retrospective dosimetry. In the Lab, there are various portable detectors for radiation control and inspection; three Ge detectors calibrated for various geometries and matrixes; two Harshaw Thermoluminescence (TL) readers and infrastructure for radioactive aerosol measurements and radioactive aerosol size characterization as well.

#### **D1. RECOGNITION OF THE SCIENTIFIC WORK**

- Invited speaker (7 Invitations for oral presentations)
- Reviewer in twenty one (32) International Scientific Journals
- Chair:
  - International Conferences: ENVIRA2015 Environmental Radioactivity International Conference, September 21-25, 2015 Thessaloniki, Greece
  - International Conferences: ENVIRA2021 Environmental Radioactivity International Conference, December 6-10 2021 online conference
  - ANP2024: Applied Nuclear Physics Conference, 22-27 Sep 2024, Thessaloniki, Greece
- Co-Chair:
  - RAP2022 International Conference on Radiation Applications, 6-10 June 2022, Thessaloniki, Greece
  - RAP2023 International Conference on Radiation Applications, 29 May – 2 June 2023, Anavyssos, Attiki
- Member of six (6) National and International Conferences – Workshops
- Editor in Proceedings of the ENVIRA2015 International Conference
- Co-Editor in Journal of Environmental Radioactivity Special Issue entitled "Environmental Radioactivity – New Challenges with new Analytical Technologies", 2016
- Co-Editor in Journal of Environmental Radioactivity Special Issue of the 6th International Conference on Environmental Radioactivity

#### **D2. Participation in Research Projects**

Alexandra Ioannidou has participated 19 national and international projects.

### D3. Total Number of publications and citations

	Articles in peer-review journals	Articles in peer-review Internation. conference proceedings	Articles in peer-review Greek conference proceedings	Articles in books	Editor in Conference Proceedings	Editor in Conference Publications Special Issues	Citations (Scopus)	h-Index (Scopus)
Number	70	106	25	9	1	2	1812	21

### E. TEACHING/EDUCATION EXPERIENCE

Alexandra Ioannidou has more than 25 years of education experience on teaching and students supervision. She teaches *Environmental Radioactivity in postgraduate level; Radiation Physics and Isotopes; Modern Physics; Energy Production and Resources - Energy by Nuclear Power Plants; Atomic Physics: Laboratory Courses; Nuclear Physics: Laboratory Courses; Advanced Nuclear Physics: Laboratory Courses and Computer Laboratory Courses at undergraduate level.*

**Total Number of Supervisions/ membership in Advisory and Examination Committees in Doctoral, MSc and Undergraduate Theses**

	Supervisor in Doctoral Theses	Three-member Advisory Committee in Doctoral Theses	Member of Examination Committee in Doctoral Theses (in Greece)	Member of Examination Committee in Doctoral Theses (abroad)	Supervisor in MSc Theses	Supervisor in Undergraduate Theses
Number	5	5	7	3	14	36

### F. INTERNATIONAL COLLABORATIONS

- University of Cyprus, Chemistry Department, Radiochemistry Laboratory
- FMI, Finnish Meteorological Institute, Helsinki, Finland
- University of Milano, Physics Department and INFN Sez. of Milano
- University of Salamanca, Spain, Physics Department
- University of Valencia, Spain, Electrical Engineering Department
- University of Novi Sad, Serbia

### G. Participation in IAEA Activities

- Scientific Responsible - IAEA - CRP J02014 "Repair and Calibration of Malfunctioned Radiation Detection" (2019-2023)
- Country Representative - IAE RER7015 TC Project "Enhancing Coastal Management in the Mediterranean, the Black Sea, the Caspian Sea and the Aral Sea by Using Nuclear Analytical Techniques" (2020-2024)
- Scientific Responsible - IAEA - CRP - G42006 "In Situ Measurements for Rapid Environmental Mapping of Contaminated Sites" (2014- 2019)

- IAEA 2011: Technical Meeting on Sharing Experience, Current Status and Guidelines for Effective Utilization of Nuclear Instrumentation for Environmental Applications in Developing Member States. 17-21 October 2011, IAEA Vienna, Austria.
- IAEA 2013: Technical Meeting on Advances in nuclear instrumentation and methods applied for environmental applications and their adoption in the developing Member States with emerging interest in nuclear power, 26-30 August 2013, IAEA's Headquarters in Vienna, Austria.
- IAEA 2013: Invited Lecturer, IAEA RER1008 Programme for Group Fellowship Training for atmospheric aerosol measurement and characterization by Nuclear Techniques, 16 Sep.- 4 Oct. 2013, N.C.S.R. Demokritos, Athens, Greece
- IAEA 2014: International Experts' Meeting on Radiation Protection after the Fukushima Daiichi Accident, 17-21 Feb 2014, IAEA's Headquarters in Vienna, Austria.
- IAEA2014, Technical Meeting for the Results of the Nuclear Instrumentation Laboratory Network's Intercomparison Exercise, 10-14 March 2014, IAEA Headquarters in Vienna, Austria.
- IAEA 2014: Workshop to outline the training programme on In Situ Radiological Characterization of Sites, 3 - 7 November 2014, IAEA Headquarters, Vienna, Austria
- IAEA 2015 International Experts' Meeting on Strengthening Research and Development Effectiveness in the Light of the Accident at the Fukushima Daiichi NPP Vienna, Austria, 16-20 Feb. 2015
- IAEA 2015: Technical Meeting on the Development of Nuclear Instrumentation for In Situ Environmental Monitoring Programmes, 30 Nov.- 4Dec. 2015, IAEA's Headquarters in Vienna, Austria
- IAEA 2016: Technical Meeting on the Development of Nuclear Instrumentation for In Situ Environmental Monitoring Programmes, IAEA's Headquarters in Vienna, Austria, 24-29 April 2016
- IAEA 2016: Training Workshop on E-learning Tools for Neutron Activation Analysis, , 10-14 Oct 2016
- IAEA 2017: Regional Workshop on In Situ Methods for Contaminated Site Characterization, Pecs, Hungary, 6-10 Nov 2017
- IAEA 2017: Regional Workshop on Assessment and Prognosis during a Nuclear or Radiological Emergency, IAEA's Headquarters, Vienna Austria, 27-30 November 2017
- IAEA 2017: Consultancy Meeting on the Development of a Curriculum for Environmental Mapping Training Activities in 2018, IAEA's Headquarters, Vienna Austria, 11 to 15 December 2017
- IAEA2018:2nd Technical Meeting on Radiation Detection Instruments for Nuclear Security: Trends, Challenges and Opportunities, IAEA's Headquarters, Vienna Austria, 16-20 April 2018
- IAEA2018: Consultancy Meeting to Develop a Proposal for the Coordinated Research Project (CRP) on Advancing Maintenance and Calibration of Radiation Detection Equipment, IAEA's Headquarters, Vienna Austria, 6 - 8 August 2018
- IAEA2018: Plenary Meeting of the Network on Environmental Management and Remediation (ENVIRONET), IAEA Headquarters, Vienna, Austria, 30 October 2018-1 November 2018
- IAEA2018: Training Workshop on In Situ Radiological Assessment: Practical Methods and Techniques, IAEA Headquarters, Vienna, Austria and IAEA Laboratories Seibersdorf, Austria, 26-30 Nov 2018
- IAEA 2019: 16th Coordination Meeting of the IAEA's Network of Analytical Laboratories for the Measurement of Environmental Radioactivity(ALMERA), Schwarzenburg, Switzerland, 16-18 Oct 2019
- IAEA 2022 First Coordination Meeting for Radiotracers and Sealed Sources Technologies for Industrial and Environmental Applications, 21-24 Feb 2022, Vienne Austria
- IAEA 2022 Technical Meeting on Nuclear Forensics: From National Foundations to Global Impact IAEA Headquarters, Vienna, Austria 11 - 14 April 2022
- IAEA 2022 Regional workshop on enhancing environmental radiation monitoring for planned, emergency and existing exposure situations, *IAEA Headquarters, Vienna, Austria, 27 June-2 July*
- IAEA 2022 Technical Meeting on the Use of Uncrewed Aerial Systems for Radiation Detection and Surveillance, *Brno, Czech Republic 26 to 30 September 2022*
- IAEA 2023 Technical Meeting on Performance Testing and Specification of Spectroscopic and Energy Discrimination Algorithms Used for Nuclear Security *Cairo, Egypt, 21-25 May 2023,*  
2023 IAEA TN-RER1021-2206831 Regional Training Course on the Safe Operation of Irradiation Facilities, *Belgrade, Serbia, 26 - 30 June 2023*
- IAEA 2023 Technical Meeting on International Nuclear Security Advisory Service (INSServ) Missions, Austria Vienna, 23 - 25 Oct 2023
- IAEA 2023 International Workshop on Nuclear Security Measures and Emergency Response Arrangements for Ports Las Vegas, Nevada, USA, 6-10 Nov 2023