

## **Europass** Curriculum Vitae

#### Personal information

First name(s) / Surname(s)

Octavian Alexandru SIMA

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Nationality Romanian

March 26, 1951 Date of birth

> Gender Μ

Work experience

Dates January 2019 onwards

Occupation or position held

**Physicist** 

Main activities and responsibilities

Research: Gamma-ray spectrometry; Monte Carlo simulation of radiation transport.; participation in

experiments

Implication in PhD coordination, Teaching in the field of Monte Carlo simulation methods and

computational methods in nuclear physics

Name and address of employer

ELI-NP, Str. Reactorului no.30, P.O.BOX MG-6, Bucharest - Magurele, ROMANIA

Type of business or sector

Research Institute

**Dates** 

November 2017 onwards

Occupation or position held

Associate researcher

Main activities and responsibilities

Participation in an ELI-RO project. Monte Carlo Simulations for experiments

Implication in PhD coordination. Teaching in the field of Nuclear Physics. Environmental radioactivity

monitoring

Name and address of employer

Horia-Hulubei National Institute for Physics and Nuclear Engineering, Str. Reactorului no.30, P.O.BOX

MG-6, Bucharest - Magurele, ROMANIA

Type of business or sector

National Research and Development Institute

Dates

February 1980 onwards

Occupation or position held

Emeritus Professor (retired) (2016-onwards): Professor (2001-2016): associate professor (1996 – 2001); assistant professor (1990 – 1996); assistant (1980 – 1990)

Main activities and responsibilities

Teaching at graduate, master and PhD level: nuclear and particle physics, nuclear reactor physics; nuclear spectroscopy; environmental radioactivity; Monte Carlo simulation methods; Computational

methods in physics

Research: Gamma-ray spectrometry; high energy cosmic rays; nuclear reactions; Monte Carlo simulation of radiation transport; radiation measurement; environmental radioactivity monitoring

Name and address of employer

Faculty of Physics, University of Bucharest; 36-46 Kogalniceanu Blvd, Bucharest, Romania

Type of business or sector

University

**Dates** 

1995 onwards (14 months in total visiting PTB); 2002 onwards (24 months in total visiting KIT)

Occupation or position held

Visiting researcher (beneficiary of grants from PTB); Visiting researcher (beneficiary of DFG or other

grants)

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Main activities and responsibilities

Research: Gamma-ray spectrometry; Research: High energy cosmic rays (KASCADE-Grande experiment)

Name and address of employer

Physikalisch-Technische Bundesanstalt (PTB), Braunschweig, Germany; Karlsruhe Institute of Technology (former Forschungszentrum Karlsruhe), Institute for Nuclear Physics

Type of business or sector

National Institute (Germany);

#### **Education and training**

Dates

1980 - 1987

Title of qualification awarded

PhD in Physics

Principal subjects/occupational skills

overed

Thesis Title: 'Contributions to the Study of Environmental Radioactivity'

Development of methods for improved measurement of environmental radioactivity (222Rn and 220Rn decay products); Monte Carlo procedures for quantifying the response of high resolution detectors

National Institute for Physics and Nuclear Engineering, Bucharest

Name and type of organisation providing education and training Level in national or international

Dates

classification

1970 - 1975

Title of qualification awarded

Physicist - Diploma + Diploma of Merit

Principal subjects/occupational skills

Physics; Mathematics; Computing; Programming

covered

vered | Main field of study: Nuclear Physics sation | Faculty of Physics, University of Bucharest

Name and type of organisation providing education and training Level in national or international

classification

Note: 1. Ranked on the first position among all the students graduating in physics in Romania in 1975 2. Third Prize at the IV-th International Physics Olympiad, Moscow, 1970.

# Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

er language(s) En

Self-assessment

European level (\*)

English French

Russian

English, French, Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
C1	Proficient user	C2	Proficient user	B2	Independent user	B2	Independent user	B1	Independent user
B1	Independent user	B2	Independent user	В1	Independent user	B1	Independent user	B1	Independent user

<sup>(\*)</sup> Common European Framework of Reference for Languages

Social skills and competences

Team work, in national and multicultural environments (member in international teams - collaborations KASCADE-Grande, LOPES, Pierre Auger Observatory; member in international panels – International Committee for Radionuclide Metrology (ICRM), International Atomic Energy Agency (IAEA); frequent work experience abroad)

Good communication skills – lectures delivered in international training courses organized by IAEA and by other international organizations

Organisational skills and competences

Coordinator of scientific teams (Coordinator of the Gamma-Spectrometry Working Group of the International Committee on Radionuclide Metrology between 2011 and 2017)

Good experience in scientific project management (director or responsible of projects awarded in national competitions; director of a research project within the frame of an IAEA coordinated research project)

PhD Coordinator - 15 students

Technical skills and competences

Competence in radiation measurement; competence in Monte Carlo simulation

Computer skills and competences

Competence in computer programming – I developed computer codes that are used in several laboratories throughout the world and computer codes that are used in the international collaborations in which I am a member

Good command of standard computer packages (word processing, computation)

Artistic skills and competences

Other skills and competences

BSITF II and ASIF (UNDSS, IAEA) certificates obtained in 2012

**Driving licence** 

### **Additional information**

Member in professional organizations: International Committee for Radionuclide Metrology (ICRM), Romanian Physical Society, European Physical Society, ROASTROPART consortium

Coordinator of the gamma-spectrometry working group of the ICRM

Consultant of IAEA in the field of gamma-ray spectrometry

Official reviewer for the ICRM conferences; reviewer for the journals: Applied Radiation and Isotopes, Nuclear Instruments and Methods A, Measurement, Radiation Physics and Chemistry, Journal of Radioanalytical and Nuclear Chemistry, Nuclear Science and Engineering, Journal of Environmental Radioactivity, IEEE Transactions on Nuclear Science, Romanian Reports in Physics, Romanian Journal of Physics

Member of international collaborations KASCADE-Grande, LOPES, Pierre Auger Observatory Researcher ID profile at: http://www.researcherid.com/rid/c-3565-2011

Publications: 230 articles in ISI rated journals, with more than 4600 citations (excluding self-citations),120 articles in Conference Proceedings listed in Web of Science, Hirsch index 40; one chapter in Encyclopedia of Analytical Chemistry (Wiley, 2012, online), one book and several book chapters published in Romania

**Annexes** 

Prof. Dr. Octavian SIMA