



Sebastian POPESCU

Place of birth: Botosani, Romania | Nationality: Romanian | Gender: Male | Email address:

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● WORK EXPERIENCE

ASSOCIATE PROFESSOR – ALEXANDRU IOAN CUZA UNIVERSITY OF IASI – 2009 – Current – IASI, ROMANIA

Education and scientific research

RESEARCH ASSOCIATE – SAGA UNIVERSITY – 2005 – 2008 – SAGA, JAPAN

Scientific research and education:

- fundamental research in RF plasmas with space applications;
- RF plasma sterilization of medical interest materials;
- design, construction and optimization of a novel type of microwave device for medical waste management;
- teaching of a course of Plasma Physics;
- coordination of lab activities of some students, with the aim of finalizing their license/dissertation thesis.

PHYSICS LECTURER – ALEXANDRU IOAN CUZA UNIVERSITY OF IASI – 2002 – 2009 – IASI, ROMANIA

Education and Scientific Research

ASSOCIATE PHYSICS LECTURER – ALEXANDRU IOAN CUZA UNIVERSITY OF IASI – 2001 – 2002 – IASI, ROMANIA

Education and Scientific Research

● EDUCATION AND TRAINING

5/3/2019 – 8/3/2019 Bucharest, Romania

TRAINING INTERNSHIP AT THE CENTER FOR PROFESSIONALIZATION IN UNIVERSITY MANAGEMENT
Ministry of Education, Romanian Academy

- Improving the capacity of the education management system (good governance, leadership, university management, strategic planning, monitoring and evaluation of policies, programs);
- Developing the skills of higher education managers;
- Increasing the capacity of professional counseling and guidance.

Field of study Generic programmes and qualifications

10/2003 – 11/2003 Trieste, Italy

AUTUMN SCHOOL OF PLASMA PHYSICS “LONG-LIVED STRUCTURES AND SELF ORGANIZATION IN PLASMAS” “Abdus Salam” International Centre for Theoretical Physics, Miramare

- Nonlinear and self-organization processes in astrophysics
- Physics of the Sun and the solar atmosphere
- Nonlinear dynamics of space plasmas: formation of self-organized structures in the magnetosphere
- Laser-induced plasma instabilities
- Variational principles in plasmas in which self-organized structures appear
- Alfvén wave dynamics
- Thermodynamics of self-organization processes
- Solitary structures in relativistic plasmas
- Wave-particle interaction in electromagnetic turbulence
- Self-organizing processes in the L-H transition in fusion plasmas (Tokamak)

Field of study Physics

10/2003 – 11/2003 Trieste, Italy

MINICOURSE IN TURBULENCE "Abdus Salam" International Centre for Theoretical Physics, Miramare

- Hydrodynamic Turbulence
- MHD Turbulence
- Emergence of Self-Organized Structures in Fluids and Magnetofluids
- Evolution Equations and Variational Principles for the Study of Turbulence
- Numerical Models for the Study of Turbulence in Fluids and Magnetofluids

Field of study Physics

4/2002 Innsbruck, Austria

CEEPUS RESEARCH MOBILITY (CENTRAL EUROPEAN EXCHANGE PROGRAMME FOR UNIVERSITY STUDIES) Plasma Physics Laboratory, Institute for Ion Physics, "Leopold Franzens" University of Innsbruck

- Study of some nonlinear and self-organization processes in double plasma machine

Field of study Physics

7/2001 Innsbruck, Austria

CEEPUS RESEARCH MOBILITY (CENTRAL EUROPEAN EXCHANGE PROGRAMME FOR UNIVERSITY STUDIES) Plasma Physics Laboratory, Institute for Ion Physics, "Leopold Franzens" University of Innsbruck

- Study of some nonlinear and self-organization processes in double plasma machine

Field of study Physics

1/10/1997 – 1/12/2001 Iasi, Romania

PHD IN PHYSICS "Alexandru Ioan Cuza" University of Iasi

Website www.uaic.ro | **Field of study** Physics | **Final grade** Summa Cum Laude | **Level in EQF** EQF level 8 |

Thesis Self-Organized Structures in Plasma Systems

1/10/1996 – 1/7/1997 Iasi, Romania

MASTER IN PHYSICS "Alexandru Ioan Cuza" University of Iasi

Website www.uaic.ro | **Field of study** Physics | **Level in EQF** EQF level 7

1/10/1991 – 1/7/1996 Iasi, Romania

BACHELOR IN PHYSICS "Alexandru Ioan Cuza" University of Iasi

Website www.uaic.ro | **Field of study** Physics | **Level in EQF** EQF level 6

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B2	B2	B1	B1	B2

● HONOURS AND AWARDS

12/2025

Excelency Diploma for outstanding results al international olympiads and competitions in the academic year 2024-2025 – Ministry of Education and Research

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Excelency Diploma for outstanding results al international olympiads and competitions in the academic year 2023-2024 – Ministry of Education and Research

12/2023

Excelency Diploma for outstanding results al international olympiads and competitions in the academic year 2022-2023 – Ministry of Education

11/2023

"The bet for youth - the power of performance" - "Tales with Profit" Gala 2023 – Profit.ro

9/2023

Issue of postal envelopes with photo and name – Romfilatelia

● NETWORKS AND MEMBERSHIPS

2024 Bucharest

International Junior Science Olympiad

President of the International Scientific Committee

2023 – CURRENT Iasi

Committee for Education of the Romanian Academy, Iasi Branch

member

2021 Craiova, Romania

Balkan Physics Olympiad

President of the Scientific Committee

2019 – CURRENT

Balkan Physics Olympiad

Member of the International Scientific Committee

2016 – CURRENT Bucharest

Romanian Master of Physics

President of the Scientific Committee

2015 – CURRENT

National Committee of Romanian Physics Olympiad

President

2015 – CURRENT Bucharest

National Physics Committee of the Ministry of Education and Research

President

2014 – 2018 Bucharest

Romanian Physical Society

Vice-president of Iasi Branch

2012 – 2014

National Committee of Romanian Physics Olympiad

Vice-president

2010 – CURRENT

National Committee of Romanian Physics Olympiad

member

2008 – 2018 College Park, Maryland

American Physical Society

member

2008 – CURRENT Paris

European Physical Society

member

10/2008 – CURRENT Bucharest

Romanian Physical Society

member

● **PROJECTS**

Scientific Research Grants

- Director (1 national grant)
- member in the research team (13 national grants and 2 international grants)

Educational grants

- *Measuring and Comparing Achievements of Learning Outcomes in Higher Education in Europe* (European project of CALOHEE consortium) - member in the Physics group

Link <https://www.calohee.eu/>

● **PUBLICATIONS**

Papers published in Scientific Journals

- 18 papers in international journals indexed by Clarivate
- 4 papers in journals published by the Romanian Academy
- 21 papers in journals not indexed by Clarivate
- more than 200 citations
- H-index = 8

Books

- 6 books published in Romania
- 3 chapters published in international monographs (USA)
- 2 chapters published in Romanian monographs

● **CONFERENCES AND SEMINARS**

Works presented at scientific conferences

- 9 invited lectures
- 15 oral communications
- 53 poster presentations

● SKILLS

Professional competences

Self-Organization | Nonlinear Dynamics | Plasma Physics | Waste management | Mathematical Models in Sciences

Organizational competences

Dean of the Faculty of Physics | Vice-dean of the Faculty of Physics | Director of the Department of Physics

15.02.2026

A handwritten signature in blue ink, consisting of a large, stylized initial 'O' followed by a series of loops and a long horizontal stroke extending to the right.