

Andrei Neacsu

Date of birth: 19/11/1982 | **Nationality:** Romanian | **Gender:** Male | **Phone:** (+40) 746155536 (Mobile) |
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Magurele, Romania (Home)

● WORK EXPERIENCE

18/08/2025 - CURRENT - BUCHAREST, ROMANIA

SCIENTIFIC DIRECTOR INSTITUTE OF ATOMIC PHYSICS

01/04/2024 - CURRENT - BUCHAREST, ROMANIA

SCIENTIFIC RESEARCHER II CENTRE INTERNATIONAL DE FORMATION ET DE RECHERCHE AVANCÉES
EN PHYSIQUE

01/06/2024 - CURRENT - BUCHAREST, ROMANIA

SCIENTIFIC RESEARCHER II (ON LEAVE SINCE 18.08.2025) IFIN-HH

01/08/2019 - 31/03/2024 - BUCHAREST, ROMANIA

SCIENTIFIC RESEARCHER III CENTRE INTERNATIONAL DE FORMATION ET DE RECHERCHE AVANCÉES
EN PHYSIQUE

01/01/2018 - 15/05/2019 - MOUNT PLEASANT, MI, UNITED STATES

UNIVERSITY PROFESSOR CENTRAL MICHIGAN UNIVERSITY

16/08/2014 - 31/12/2017 - MOUNT PLEASANT, MI, UNITED STATES

POST DOCTORAL RESEARCHER CENTRAL MICHIGAN UNIVERSITY

01/02/2014 - 31/05/2024 - BUCHAREST, ROMANIA

SCIENTIFIC RESEARCHER III IFIN-HH

01/04/2005 - 31/01/2014 - BUCHAREST, ROMANIA

SCIENTIFIC RESEARCH ASSISTANT IFIN-HH

27/06/2005 - 26/09/2005 - DUBNA, RUSSIA

JUNIOR RESEARCHER JINR

● EDUCATION & TRAINING

01/10/2008 - 24/10/2013 - MAGURELE, ROMANIA

PHD IN PHYSICS- UNIVERSITY OF BUCHAREST - FACULTY OF PHYSICS

Level in EQF: 8

01/10/2005 - 15/02/2007 - MAGURELE, ROMANIA

MASTER DEGREE- UNIVESITY OF BUCHAREST - FACULTY OF PHYSICS

Level in EQF: 7

01/10/2001 - 20/06/2005 - MAGURELE, ROMANIA

BACHELOR DEGREE- UNIVERSITY OF BUCHAREST - FACULTY OF PHYSICS

Level in EQF: 6

15/09/1997 - 30/06/2001 - TULCEA, ROMANIA

BACCALAUREATE DIPLOMA- LICEUL TEORETIC "GRIGORE C. MOISIL"

Level in EQF: 5

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B1	B2	A2	A2	A2
ITALIAN	B2	C1	B2	B2	B2

● **JOB-RELATED SKILLS**

Job-related skills

I have coordinated one Masters student (Vasile - Alin Sevestrean) at the University of Bucharest - Department of Physics and have been involved in the PhD procedures and evaluation of two PhD students (Vasile - Alin Sevestrean and Ovidiu Vasile Nitescu).

Experience in creative participation to scientific projects and scientific materials (articles, presentations, proceedings, computational software and methods) in the field of Theoretica Physics, mainly related to the structure of matter. Project management as deputy on several national and international research projects and as project director for a Romanian young research team project. Experience with large-scale computations, writing and optimizing codes, setting up software and hardware infrastructure for high-performance computing (the INCDFM-CIFRA HPCC). Limited experience that is currently increasing in machine learning, artificial intelligence, general purpose GPU computing, neural networks, accelerators for computation and generative AI.

PhD thesis on the topic of exotic nuclear charge exchange reactions.

Within CIFRA, I am managing the PNRR website accounts for two projects, Physics of Viromimetic Particles lead by Prof. Bogdan Dragnea and NEutrino Properties Through Use of Nuclei (NEPTUN) lead by Prof. Jouni Suhonen. This entails providing the resources and the flow of documents between the researchers, the Economic Administration officers, the Human Resources Office, the Public Aquisitions Office, the project directors, and the director of CIFRA.

I have also been involved in the organisation of numerous workshops, conferences, and summer schools. The most recent one is "Magurele Summer School for Computing in a Rapidly Evolving Society: Parallel Algorithms and Optimizations" with ICTP Trieste June 30th - July 11th 2025 where I was the Romanian director of the school.

<https://indico.ictp.it/event/10842/overview>

Links <https://scholar.google.com/citations?user=Q2-dID0AAAAJ&hl=en>

- **ORGANISATIONAL SKILLS**

Project Director

I was the director for the project grant TE 05/05/2022 (PN-III-P1-1.1-TE-2021-0343) "Investigations of beyond standard model physics from theoretical studies of double-beta decay" of Romanian Ministry of Research, Innovation and Digitalization through the project CNCS – UEFISCDI (02/05/2022 - 30/04/2024).

Co-chair of the UNESCO Chair Transfer Of Research Results Into Stem Education (TRRISE) at National Institute of Materials Physics, Magurele, Romania

On Feb. 10th 2025, UNESCO has decided favourably for the establishment of the UNESCO Chair Transfer Of Research Results Into Stem Education (TRRISE) at National Institute of Materials Physics, Magurele, Romania. Together with Prof. Mihaela Florea, I am the co-chair of this enterprise, which is uneque as the first UNESCO chair hosted by a Romanian research institute and not a university or foundation.

Links <https://www.cnr-unesco.ro/ro/activitate/unesco-a-avizat-favorabil-infiintarea-a-doua-noi-catedre-unesco-in-romania>

07/11/2019 - 01/07/2023

Deputy Head of the Department of Theoretical Physics - IFIN-HH

From November 2019 until July 2023 I have occupied the position of Deputy Head of the Department of Theoretical Physics within IFIN-HH.