

PERSONAL INFORMATION

Ovidiu Teșileanu



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Sex M | Date of birth 14/11/1980 | Nationality Romanian

WORK EXPERIENCE

March 2018 – present

Head of Department „Laser Gamma Experiments”

ELI-NP Unit – “Horia Hulubei” National R&D Institute for Physics and Nuclear Engineering
30 Reactorului Street, RO-077125, Magurele, jud. Ilfov, Romania
www.eli-np.ro

- Leading the ELI-NP department which prepares the experimental capabilities in the E4 and E7 experimental areas of the facility
 - Research activity in Nuclear physics, Laser physics and applications for astrophysics, fundamental physics and materials science
 - Specific activities for the implementation of the ELI-NP project, related to organization, planning, monitoring and reporting
 - Planning and allocation of the human resource of the department for various R&D directions
 - Representation of the department at workshops and meetings of the ELI-NP management committees
 - Responsibilities for allocation of the available budget for the equipment needed for the planned experiments and the preparation of the experimental areas for the operation as a user facility
 - Initiating international scientific collaborations
 - Responsible person for the ELI-NP Scientific Seminars
 - Participation to the European project ELITRANS, WP6 (Technology Transfer)
- Business or sector** Research

July 2011 – present

Scientific Researcher (CS III 2011-2016, CS II since Sept 2016)

ELI-NP Unit – “Horia Hulubei” National R&D Institute for Physics and Nuclear Engineering
30 Reactorului Street, RO-077125, Magurele, jud. Ilfov, Romania
www.eli-np.ro

- Research activity in Nuclear Physics and applications for astrophysics, participation to experiments in Romania, Japan, Italy, Germany and USA
- Preparation of the European funding application for the ELI-NP project
- Specific activities for the implementation of the ELI-NP project
- Have initiated several international scientific collaborations, with colleagues from USA, Japan, Poland, Italy
- Responsible person for the Charged Particles Detection Working Group
- Since 2013, Acting Head of Research Activity 5 Department at ELI-NP: “Experiments with combined laser and gamma beams”
- More than 40 presentations about ELI-NP and specific research topics within the project at national and international conferences and symposia
- Led the organization for several meetings and workshops of the project held in Magurele
- Lecturer at outreach events (Researcher’s night, TEDxCERN)
- Responsible person for the ELI-NP Scientific Seminars
- Negotiated, followed the implementation and successfully concluded two R&D contracts of ELI-NP with University of Warsaw and INFN-LNS
- Concluded several Memorandums of Understanding for scientific collaboration

- Member of the IFIN-HH CRISP Project team (Cluster of Research Infrastructures for Synergies in Physics)
- Group leader for the IFIN-H/ELI-NP participation in the European project IT-ELLI (Innovative Training and Education for Large Laser Infrastructures)
- Participation in the European project ELITRANS, WP9 (Technology Transfer) and WP4 (Partner facilities)

Business or sector Research

December 2011 – present

Scientific Researcher (CS III) – Lecturer

Research Centre for Atomic Physics and Astrophysics, Faculty of Physics, University of Bucharest
405 Atomistilor Street, RO-077125, Magurele, jud. Ilfov, Romania

<http://brahms.fizica.unibuc.ro/atom/index.html>

- Associate researcher of the Research centre
- Part-time lecturer for courses, seminars and laboratories of Nuclear Physics, Atomic Physics and Astrophysics
- Organizer of outreach activities at the Faculty of Physics

Business or sector Education – Research

July 2009 – November 2011

Scientific Researcher (CS III)

Research Centre for Atomic Physics and Astrophysics, Faculty of Physics, University of Bucharest
405 Atomistilor Street, RO-077125, Magurele, jud. Ilfov, Romania

<http://brahms.fizica.unibuc.ro/atom/index.html>

- Research activity in Astrophysics: star formation, numerical MHD simulations of stellar jets with embedded routines for the prediction of line emissions through atomic processes
- Project director for a 2-year CNCSIS grant for research and the establishment of a laboratory of computational astrophysics (110KEur)
- Continued and extended the scientific collaborations started during the PhD
- Held seminar and laboratory classes of Nuclear Physics, Atomic Physics, Astrophysics, and Computer Programming
- Invited to give lectures at the Wuppertal University in 2010 in the framework of the Erasmus program
- Main organizer of several large scale outreach events at the Faculty of Physics
- Supervised five Diploma theses in Astrophysics

Business or sector Education – Research

November 2005 - November 2008

Associate researcher

Dipartimento di Fisica Generale, University of Turin
1 Pietro Giuria Street, I-10125, Torino, Italy

- Pursued the PhD program at the University of Turin
- Research activity in Atomic Physics and Astrophysics, theoretical and numerical modelling of processes associated with early stages of stellar development
- Obtained an Early Stage Researcher grant from the European Commission
- Participation in the JETSET project (http://cordis.europa.eu/result/rcn/50084_en.html)

Business or sector Research

May 2004 – November 2005

Programmer

SC Intersoft Center SRL, Bucharest

- Programmer C/C++
- Web programming: PHP, Java, MySQL
- Online payment processing programming
- Project Manager for the web presence of an American HR company

Business or sector IT, informatics

EDUCATION AND TRAINING

November 2005 - November 2008

Philosophy Doctor (PhD) in Physics

EQF Level 8

University of Turin, Italy

- PhD courses in Astrophysics, Atomic Physics
- Research in Astrophysics in the framework of the European project JETSET

October 1999 – July 2003

Physicist

EQF Level 7

Faculty of Physics, University of Bucharest, Romania

- Courses in General Physics
- Specialization courses in Atomic, Nuclear Physics and Astrophysics
- 2002-2003 – Erasmus stage of one academic year at the University of Turin, Italy, completed all courses of the Masters degree in Astrophysics and performed the research for the Diploma thesis

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2
Italian	C1	C1	C2	C1	C2
French	B1	B2	A2	A2	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills acquired through the extended international environment in which I worked since 2005
- Participation to over 50 international conferences, workshops and schools, with over 40 presentations and several invited lectures/talks
- Seminars held at the University of Bucharest, University of Wuppertal
- Gave lectures and supervised laboratory classes in Atomic Physics, Nuclear Physics, Astrophysics, Computer Programming to undergrad and Masters students at the University of Bucharest

Organisational / managerial skills

- Leadership: currently Head of Department RA5 at ELI-NP, have lead the development of the TDR for experiments proposed and started implementation
- Leadership: Project Director of a CNCSIS RP project (2009-2011)
- Leader of IFIN-HH/ELI-NP participation to the international project IT-ELLI (Innovative Training and Education for Large Laser Infrastructures)
- Project responsible person for the IFIN-HH/ELI-NP participation to the XHVELI (ELIRO19/2016) project, led by ICSI Râmnicu-Vâlcea, for R&D in ultra-high vacuum techniques
- Supervising activities for students pursuing their research for diploma theses
- Led the organization of several large scale outreach activities at the University of Bucharest

Job-related skills

- Familiar with the issues of design and building of high vacuum systems, interaction chambers, complex optical systems
- Familiar with radioprotection issues, design and computation of shielding means and beamdumps
- Good command of numerical simulation theory and application to the fields of Atomic Physics, Fluid Dynamics and Astrophysics

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Good command of MS Office, MS Project, Visio
- Programming skills in C, C++, Fortran – development scientific software
- Familiar with IDL, Origin
- Experienced with Databases, web programming (PHP, Java)
- Good command of management of Linux and Windows
- Familiar with Adobe photo editing software

Other skills

- PC Hardware (upgrade, custom building, troubleshooting)
- Computer networks (designed and built several LANs)
- Technical ability in mechanics, electronics (experimental devices construction and repairing)
- Photography (with certification)
- Skiing

Driving licence

B category, since 2000

ADDITIONAL INFORMATION

Publications	Please check online: https://scholar.google.com/citations?user=hgcvRUwAAAAJ&hl=en
Presentations	TEDxAlbalulia 2019 – https://www.youtube.com/watch?v=elojiO3QIvA TEDxCERN Bucharest 2013 – https://www.youtube.com/watch?v=bYxGisN8MLY
Projects	Researcher's night, various fairs and exhibitions Member in the Management Committee (Leader of Romania participation) of the COST Action MP 0905 – „Black Holes in a Violent Universe” HPC Europe2 6-week computational grant at CINECA Bologna
Conferences	List of conferences and workshops in the attached documents
Memberships	Romanian Physical Society
References	References may be requested from: <ul style="list-style-type: none">- Prof. Dr. Alexandru Jipa, Faculty of Physics, University of Bucharest- Prof. Dr. Silvano Massaglia, Director, Dipartimento di Fisica, University of Turin- Prof. Dr. Nicolae Victor Zamfir, Director, IFIN-HH, Romania
Citations	>600 citations on Web of Knowledge (no self-citations)
Courses	<ul style="list-style-type: none">▪ 2016: Training course on “Radiation Protection on the Use of Particles Accelerators and Radioactive Sources”, organized by the IFIN-HH Nuclear Training Centre – CPSDN▪ 2013: Course in Public Relations and Crisis Management – organizer: the Foundation for Democracy, Culture and Liberty▪ 2013: Successfully attended the course “Advanced Vacuum Training Course” organised by Edwards Vacuum at IFIN-HH, Magurele▪ 2012: Participation in the training programme “Realising and Managing International Research Infrastructures” (RAMIRI2)
Certifications	<ul style="list-style-type: none">▪ Certificate Level 1: “Radiation Protection on the Use of Particles Accelerators and Radioactive Sources” (2016)

ANNEXES