

PERSONAL INFORMATION

Daniel Ursescu



 IFIN-HH / ELI-NP, Bucharest, Romania

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Sex Male | Date of birth 21.01.1976 | Nationality Romanian

POSITION WITHIN THE PROJECT

Senior Researcher (CS1)

WORK EXPERIENCE

November 2011 - Present

Research and Development in laser physics, part-time until February 2013 (CS I); permanent position since March 2013; Presently Senior Research Scientist (CS I)

National Institute for Physics and Nuclear Engineering – Horia Hulubei (IFIN-HH). Magurele, Ilfov, Romania

- ELI-NP laser experiments research activities coordinator (2014 – January 2016)
- ELI-NP Laser Research Activities Coordinator (January 2016 – January 2018);
- 2018-July 2024, Deputy Head of Laser System Department at ELI-NP
- Since August 2024, Head of Laser System Department at ELI-NP

 16 July 2007 –
31 December 2016

Research and Development in laser physics, permanent position – Research Scientist first degree (CS I, since October 2011)

National Institute for Laser, Plasma and Radiation Physics, Magurele, Ilfov, Romania

- Development of terawatt, solid state laser systems and applications; x-ray lasers. Coordinator of several projects and research packages: COST MP0601 – FP7, FP7 LASERLAB2-JRA HAPPIE and JRA SFINX, FP7 ELI-PP WP7, Romanian projects PNCD2-RP6/2007 and PNCD2-Parteneriate1/2011
- French Government fellowship for 2 months research at Laboratoire d'Optique Appliquee, Palaiseau, France in 2011

 14 January 2002 – 31 March
2007

Research and Development in interdisciplinary physics (laser physics, plasma physics, atom physics, nuclear physics); PhD student and postdoc (1 year)

GSI-Darmstadt, Germany

- Development of X-Ray lasers at 13.9nm, 14.7nm and 22.02nm; electron beam ion trap (EBIT) experiments; laser produced plasmas experiments and theory
- Improving the optical stretcher-compressor design for the PHELIX laser; Synchronization of PHELIX PW laser facility with the ion-accelerator facility (coordinator for 1 year)
- Data acquisition and analysis

 01 November 2000 –
31 December 2001

Research and Development in interdisciplinary physics (laser physics, optical frequency standards, cryogeny, special relativity tests); postgraduate researcher

Institute fuer Experimentalphysik, Heinrich Heine University, Duesseldorf, Germany

April 1999 – September 2000
(part-time) **Plasma physics research; Research Assistant**

National Institute for Lasers, Plasma and Radiation Physics, Magurele, Romania

- UV radiation production with low temperature excimer plasmas

EDUCATION AND TRAINING

2018 **Habilitation to conduct PhD students**

Physics doctoral school, Universitatea din Bucuresti, Romania

April 2006 – March 2007 **Postdoctoral research related to FP6 Laserlab Europe project: Overcoming technology barriers for ultra intense lasers (OTTER JRA)**

GSI – Darmstadt, Germany, research institute

January 2002 – February 2006 **Doctor in Natural Sciences**

Johannes Gutenberg Universitaet Mainz, Germany in collaboration with GSI-Darmstadt, Germany

- Graduation work: „Grazing Incidence Pumped Zr X-Ray Laser for Li-like Ions Spectroscopy”, evaluation of the written work: „very good”

5-15 July 2003 **International Summer School of quantum electronics: Atoms and Plasmas in Super-Intense Laser Fields; Erice-Sicily, Italy**

25-27 March 2002 **International Summer School: New X-ray Investigation of fast and Ultrafast Processes; Desy, Hamburg, Germany**

September 1999 – July 2000 **Advanced studies Diploma with the specialty opto-techniques and technology with lasers, plasma and radiation**

Bucharest University , Faculty of Physics, Romania

- Optotechnics and technology with lasers, plasma and radiation
- Graduation work: „Metal Matrix Composites Laser Cladding on Aluminium” after a 5 month research stage at ENSAIS Strasbourg, France, general mark 10 (10 is maximum).

September 1994 – July 1999 **Physics engineer with the specialty opto-techniques and technology with lasers, plasma and radiation**

Bucharest University, Faculty of Physics, Romania

- Opto-techniques and technology with lasers, plasma and radiation;
- Graduation work: „Langmuir Probes Measurements in the Reflex Plasma Reactor”, general mark 9.42 (10 is maximum)

September 1990 – July 1994 **High School Diploma**

High School „Petru Rares”, Piatra Neamt, Romania

- Profile Mathematics and Physics.

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	advanced	advanced	advanced	advanced	advanced
French	average	average	average	average	average
German	average	average	average	average	average

Communication skills excellent communication skills gained through experience as projects coordinator and as professor

Organisational / managerial skills

- Supervisor of 8 PhD students at Physics Department, University of Bucharest (2 successfully graduated)
- Head of Research activities group Laser Experiments at ELI – NP 2014-2016
- Head of Research activities group Laser at ELI – NP 2016-2018
- Organizer of several international workshops and meetings (LASERLAB FP6 HAPPIE JRA meeting)
- Member of the organizing committee of several conferences, including ICUIL 2012 in Romania
- Member of the Scientific advisory committee for ICUIL conference in 2012, 2014 and 2016
- Member in the Scientific advisory committee for ECLIM conference in 2014
- Member of MC on behalf of Romania for COST Action MP0601
- President of the Student League of Physics Faculty, Bucharest University, in 1996-1997

Technical skills and competences Solid state laser development; interdisciplinary physics set-up developments

Digital competences Operating Systems Windows and Linux; Microsoft Office
Programs: Mathematica, Origin, LabView, Corel Draw, Optica3, Shell Scripting

Other skills Teaching:

- University of Bucharest lectures for the Doctoral School of Physics, since 2019
- Universitatea Politehnica din Bucuresti, first semester of 2016-2018; Master course on Optics and lasers
- Universitatea de Vest, Timisoara, second semester of 2012-2013 and 2013-2014; Two semester long Master courses on Extreme Light
- Johannes Gutenberg Universitaet, Mainz, Germany: Two semester Physics Beginner Laboratory; Tutorial in Analytical Mechanics; Tutorial in Computer assisted Optical System Design
- Heinrich Heine Univeristaet, Dusseldorf, Germany: Physics Beginner Laboratory

Publications	Co-author of >100 scientific articles (Clarivate Web of Science);
Presentations	Invited talks: >10
Projects	Coordinator of several national funded research projects (RP6 2007-2009, UFOUV 2011 – 2016, ELI-RO 16/2020) and project responsible in: ELI-RO 3/2016, ELI-RO 3/2020, ELI-RO 4/2020, ELI-RO DELISM 2024 Coordinator of ATTRACT grant 775/2019 „High power laser beam profile and pointing measurement (HPLM)” Coordonator of Metrology standardization Task 3.2 in IMPULSE project (Horizon Europe 871161)
Memberships	Romanian research team coordinator in two joint Research Activities of LaserLab 2 FP6 project (SFINX and HAPPIE)
Citations	Principal Investigator in three experiments within LASERLAB3 FP7 Access program in 2013-2015 Optica Senior member more than 1400 citations, Hirsch-index 19 (Clarivate Web of Science)

09.08.2024