



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **MARIA-LUIZA MUNTEANU**

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maria.munteanu@inflpr.ro

Nationality Romanian

Date of birth 24/09/1985

Gender Female

Work experience

Dates 01/10/2011 →

Occupation or position held SCIENTIFIC RESEARCH ASSISTANT

Main activities and responsibilities Assistant researcher in Plasma and Laser Physics

Name and address of employer National Institute for Lasers, Plasmas, and Radiation Physics, Plasma Laboratory 23,
Str. Atomistilor 409, PO Box MG 36, 077125, Magurele-Bucharest, ROMANIA

Type of business or sector SCIENTIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT

Dates 01/10/2010 -01/10/2011

Occupation or position held RESEARCH ASSISTANT

Main activities and responsibilities Computer programs for numerical sizes of interest in describing the elastic and inelastic phenomena of interaction of electromagnetic radiation with bound electrons.
Development of analytical and numerical calculation methods for interaction Rayleigh and photoelectric effect on systems of atoms in the polymer chains.

Name and address of employer UNIVERSITY OF BUCHAREST, FACULTY OF PHYSICS - Theoretical Physics RESEARCH CENTER
Bd. Mihail Kogalniceanu, nr. 36-46, sector 5, 050107 BUCHAREST (ROMANIA)

Type of business or sector SCIENTIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT

Dates 08/2008 - 04/2009

Occupation or position held TRAINEES Université Montpellier II France

Main activities and responsibilities Internship working Université Montpellier II France – Sciences et Techniques du Languedoc în laboratorul LPTA („Laboratoire de Physique Théorique et Astroparticules”) in the program of scientific cooperation in the field of plasma fusion Radiation between University of Bucharest – Oxford- Université Montpellier II.

Dates 01/10/2007 - 01/10/2010

Occupation or position held Contract research team member PN II 71-002/2007 “Physical and mathematical models for theoretical and experimental study of energy transfer mechanisms, heat and mass to temperature extremes, with applications in fusion processes in plants”

Main activities and responsibilities Obtaining analytical formulas for radiant cooling mechanisms of braking and development of numerical codes.

Type of business or sector SCIENTIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT

Education and training

Dates 01/10/2009 → 21/09/2012
 Title of qualification awarded PhD in PHYSICS, Theoretical Physics specialization
 Principal subjects / occupational skills covered Thesis title: "Interaction of the atomic electrons with the electromagnetic field"
 Name and type of organisation providing education and training University of Bucharest, Faculty of Physics

Dates 01/10/2009 - 06/2011
 Title of qualification awarded MSc in Theoretical Physics
 Principal subjects / occupational skills covered - Theoretical Physics;
 - Simulation methods and codes;
 - Programming language and Numerical Methods used in physics;
 Name and type of organisation providing education and training University of Bucharest - Faculty of Physics
 Bd. Atomistilor nr. 405, RO-077125 Magurele (Romania),

Dates 01/10/2004 - 30/06/2009
 Title of qualification awarded DIPLOMAT ENGINEER IN PHYSICS
 Principal subjects / occupational skills covered -Higher Mathematics;
 -Mechanical Physics;
 -Electricity;
 -Optics;
 -Electronic Devices and Circuits;
 -Optical and Laser techniques;
 -Spectral Techniques and Plasma;
 -Materials Science and Technology;
 -Structure models and nuclear reactions;
 -Applications of Nuclear Radiation and Nuclear Reactors;
 -Solid-state physics;
 -Physical data processing and numerical methods;
 -Technical Drawing.
 Name and type of organisation providing education and training University of Bucharest - Faculty of Physics

Personal skills and competences

Other language(s)

Self-assessment
 European level (*)

FRANCEZA

English

French

Spanish / Castilian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user	A2	Basic User

(*) [Common European Framework of Reference \(CEF\) level](http://www.cedefop.europa.eu/en/faq/35307)

Social skills and competences
 -Teamwork;
 -Adaptability;
 -Capacity analysis and synthesis;
 -Initiative;
 -Responsibility;
 -Mental strength under pressure;

	-Devotion to work;
Organisational skills and competences	Developing training and human relations team, selective mobilization, stimulation of professional qualities.
Technical skills and competences	Optical and spectral methods; Optotehnica and laser techniques; Materials Science and Technology.
Computer skills and competences	- Knowledge of physical phenomena simulation and implementation of numerical algorithms, using specialized software (MathematicaTM, MathCadTM, MatLabTM, LabViewTM) or programming languages (Fortran, Pascal); - Knowledge of processing experimental data using specialized software (OriginTM, MathematicaTM, MathLabTM); - Basic skills for projects in AutoCADTM (one course a semester in college); - Good command of the package of programs OfficeTM (WordTM, PowerPointTM); - Knowledge of the use of graphic editors (PhotoshopTM). Use, maintenance and troubleshooting Windows.
Artistic skills and competences	Ability to give a speech in front of an audience, exercised through participation during the years of study sessions, conferences and other public events.
Driving licence(s)	B