

Curriculum Vitae

Personal information

First name(s) / Surname(s) **Marius-Mihai Cazacu**

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Nationality Romanian

Date of birth 19.11.1981

Gender male



Present employment / position

PhD / Research and educational activities

Work experience

Dates October 2017 – present

Occupation or position held Lecturer, PhD. Eng.

Name and address of employer Department of Physics "Gheorghe Asachi" Technical University of Iasi

Type of business or sector Academic. Educational&Research&Development

Work experience

4 years

Dates October 2013 – September 2017

Occupation or position held Assistant Professor

Name and address of employer Department of Physics "Gheorghe Asachi" Technical University of Iasi

Type of business or sector Academic. Educational&Research&Development

Work experience

6 years

Dates October 2012 – December 2018

Occupation or position held Associate researcher, PhD. Eng.

Name and address of employer Al I Cuza University of Iasi, Faculty of Physics, Atmosphere Optics, Spectroscopy and Lasers Laboratory, <http://spectroscopy.phys.uaic.ro/current.html>

Type of business or sector Academic. Research&Development

Work experience

1 year

Dates October 2011 – September 2012

Occupation or position held Postdoctoral Fellowships (12 months): Atmospheric aerosols optical 3D characterization. Meteorological factors, air pollution and health, POSDRU/89/1.5/S/63663

Name and address of employer Al I Cuza University of Iasi

Type of business or sector Academic. Research&Development

Work experience

3 years

Dates 2007-2010

Occupation or position held PhD student, Atmospheric Remote sensing Investigation, PhD Thesis: *Contributions to the implementation of the first national LIDAR network for atmospheric aerosols optical characterization*

Name and address of employer	Al I Cuza University of Iasi		
Main activities and responsibilities	Member of the atmospheric research projects: 1. ROLINET – Romanian Lidar Network (2007 - 2010) 2. RADO – Romanian Atmospheric Research 3D Observatory (2009 - 2011)		
Type of business or sector	Academic. Research&Development		
Work experience			
	4,3 years		
Dates	01.06.2008 – 30.03.2010	01.04.2010 – 30.09.2011	15.11.2015 – 31.12.2016
Occupation or position held	Research Engineer	Researcher	Researcher
Name and address of employer	SC EnviroScopY SRL (contact person: Prof. Dr. Ioan Balin - ioan.balin@heig-vd.ch , ioan.balin@enviroscopy.com)		
Type of business or sector	Commercial and Research&Development, Atmospheric Monitoring		
Main activities and responsibilities	Atmospheric monitoring by remote sensing techniques (LIDAR & DOAS) and air pollutants monitoring (eg Horiba Instruments) Member of the next atmospheric research project: 1. Research, development and implementation in micro-production of innovative LIDAR systems for 3D monitoring of aerosols, clouds and water vapour – O233 (2010 - 2012)		
Work experience			
	3 months		
Dates	Oct 2007 – Dec 2007		
Occupation or position held	Research Engineer		
Name and address of employer	SC ASAM SA		
Type of business or sector	Commercial and Research&Development, Quality Management		
Main activities and responsibilities	Researching and production processes observation of auto parts. Reducing the number of rejects parts, activity undertaken for some auto parts		
Work experience			
	6 months		
Dates	Oct 2006 – Mar 2007		
Occupation or position held	Debutant Researcher		
Name and address of employer	National Institute for Applied Physics, Non-destructive testing laboratory		
Main activities and responsibilities	The development and research of eddy current sensors		
Type of business or sector	Research		
Education			
Dates	Oct 2007 – Dec 2010		
Title of qualification awarded	PhD Student		
Principal subjects/occupational skills covered	Contribution at the first national LIDAR network for optical investigations of atmospheric aerosols		
Name and type of organisation providing education and training	Al I Cuza University of Iasi, Faculty of Physics		
Dates	2005;	2007	
Title of qualification awarded	BA in Physics/Engineer; MA in Physics;		
Principal subjects/occupational skills covered	Applied Physics;	Physics of Advanced Materials. Nanotechnology.	
Name and type of organisation providing education and training	Al I Cuza University of Iasi. Faculty of Physics.		

Trainings

Dates	01 – 16 October 2015
Title of qualification awarded	Diploma
Principal subjects/occupational skills covered	Project manager
Name and type of organisation providing education and training	S. C. TAAS Consultancy S. R. L.
Dates	21 – 31 August 2012
Title of qualification awarded	Trainer (LIDAR Application) and participant. Summer School.
Principal subjects/occupational skills covered	Participant at theoretical and practical courses, IR and UV cameras, satellite imagery and models of dispersion of pollutant
Name and type of organisation providing education and training	ARSSS 2012 - Atmospheric Remote Sensing Summer School, INOE, Magurele, Bucharest http://environment.inoe.ro/article/118/arsss-atmospheric-remote-sensing-summer-school
Dates	March 2009 – July 2010
Title of qualification awarded	CISCO – Module CCNA
Principal subjects/occupational skills covered	1 - Network Fundamentals; 2 - Routing Protocols and Concepts; 3 - LAN Switching and Wireless; 4 - Accessing the WAN
Name and type of organisation providing education and training	AI I Cuza University, Iasi, AARNIEC/RoEduNet Department
Dates	21 – 27 February 2010
Title of qualification awarded	Training
Principal subjects/occupational skills covered	Second Intense Training for Romanian Atmospheric Research 3D Observatory – RADO Project Gaining of knowledge of remote sensing techniques for monitoring the Earth's atmosphere. Theoretical and practical course, using IR and UV cameras, satellite imagery and models of dispersion of pollutant
Name and type of organisation providing education and training	Norwegian Institute for Air Research (NILU)
Dates	9 – 13 November 2009
Title of qualification awarded	Training
Principal subjects/occupational skills covered	First Intense Training for Romanian Atmospheric Research 3D Observatory – RADO Project Gaining of knowledge of remote sensing techniques for monitoring the Earth's atmosphere. Theoretical and practical course by LIDAR systems use, HYSPLIT model, Basic of Atmospheric physics.
Name and type of organisation providing education and training	National Institute of Research & Development for Optoelectronics – INOE2000
Dates	14 – 18 January 2008
Title of qualification awarded	Winter School
Principal subjects/occupational skills covered	Advanced Materials Physics Gaining of theoretical knowledge and analysis of advanced materials
Name and type of organisation providing education and training	Aristotle University of Thessaloniki - Greece

Dates 31 July – 9 August 2006
 Title of qualification awarded Summer School
 Principal subjects/occupational skills covered Optoelectronic Techniques for Environmental Monitoring and Risk Assessment
 Gaining of knowledge about remote sensing techniques for monitoring of the Earth's atmosphere
 Name and type of organisation providing education and training North University of Baia Mare - Romania

Dates 2 – 14 July 2006
 Title of qualification awarded Summer School
 Principal subjects/occupational skills covered Physico-Chimie de l'Atmosphère: des Expériences de Laboratoire aux Campagnes de Terrain
 Gaining of knowledge about the Atmospheric Chemistry and Physics, Perspectives Research & Atmospheric Sounding
 Name and type of organisation providing education and training Al I Cuza University, Iasi, Faculty of Physics

Dates 19 – 21 September 2005
 Title of qualification awarded Electron microscopy course
 Principal subjects/occupational skills covered Gaining of knowledge for analysis of thin films using electron microscopy techniques
 Name and type of organisation providing education and training National Institute of Research and Development for materials physics – Bucharest, Magurele

Personal skills and competences

Mother tongue(s) **Romanian**

English

Self-assessment
 European level (*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B2

French

Self-assessment
 European level (*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B1	B2	A2	A2	B1

Professional skills and competences

Organizational skills and competences • Member, co-organization of several National and International Conferences, Summer Schools or Workshops.

Teaching activities Lasers, Spectroscopy, Environment

Scientific research activity Air monitoring, Remote Sensing Techniques, Scientifically Software;
 Capability to operate with different techniques of measurement and control;
 Technical skills mounting / dismounting;
 Basics of microscopy field;
 Capability to adapt at operating / service with complex laboratory and industrial equipments;
 Obtaining polymeric with nano-clusters films by electrodeposition, electrical and magnetic measurements of physical parameters;
 Use / service of vacuum equipments.

Computer Skills	User of Windows (10, 8, 7, Vista, XP, 98, 95), Linux (beginner), Office (Word, Excel, PowerPoint), Origin, LabView (beginner), Corel Draw, Adobe Photoshop Software and hardware service
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Scientifically Papers

- ✓ **Publons ID:** <https://publons.com/researcher/H-2075-2011/>
- ✓ **Scopus ID:** <https://www.scopus.com/authid/detail.uri?authorId=14037094200>
- ✓ **Google Scholar ID:** <https://scholar.google.ro/citations?user=wSCvLwIAAAAJ&hl=ro>

Awards:

III: M.M. Cazacu, A. Timofte, O.G. Tudose, D. Dimitriu, S. Gurlui, I. Balin – *m^{ESY}LIDAR – A new configuration for 3D monitoring of atmospheric aerosols and clouds*, A XXXIX-a Conferinta Nationala Fizica si Tehnologiile Educationale Moderne, 15 Mai 2010, Iasi, Romania;

I: I. Vetres, I. Ionel, M.M. Cazacu, I. Balin – *Necessity of complementar vertical resolved LIDAR observation towards ground air pollution analysis, in western Romania*, International U.A.B. – B.E.N.A Workshop Management and Sustainable Protection of Environment, 6 -7 Mai 2009, Alba Iulia, Romania;

Experience (including managerial experience) in national/international programmes/ projects:

Programme/Project	Position	Period	Administrated Budget
PN-III-P1-1.1-TE-2019-1921, NanoAir	Manager / Researcher	11.2020 – 10.2022	100.000 €
ARUT/GnaC2018_65 / 2019, MYAIR	Manager / Researcher	06.2019 – 05.2020	6.000 €
MySMIS / 111890/249/	Expert / Researcher	03.2019 – 10.2019	180.000 €
STAR ROSA/114/07.11.2016, AIRFRAME	Researcher	07.2017 – 12.2018	330.000 €
STAR ROSA/114/07.11.2016, SATY	Researcher	07.2017 – 12.2018	160.000 €
STAR ROSA/114/07.11.2016, LEO	Researcher	11.2016 – 11.2017	1.000.000 €
STAR-ROSA/98/129.11.2013, DARLIOES	Research assistant	02.2014 – 12.2016	180.000 €
PN-II-PT-PCCA-2013-4-1798, MOBBE	Researcher	07.2014 – 12.2016	275.000 €
PN-II-PT-PCCA-2013-4-2074, LIRA	Researcher	07.2014 – 12.2016	231.033 €
CAPACITATI/RO-CERN, ELI-NP, E03/30.06.2014	Researcher	09.2014 – 07.2016	140.000 €
POSDRU /157/1.3/S/132731	Training Expert	05.2014 – 11.2015	650.000 €
POSDRU/89/1.5/S/63663	Postdoctoral Researcher	10.2011 – 09.2012	330.000 €
POSCCE/5710 (ID364)/93/02.02.2010	Research assistant	02.2010 – 02.2013	300.000 €
RADO – Norway Grants STVES 115266	PhD student position	05.2009 – 04.2011	3.500.000 €
ROLINET, Proiect nr. 31-002/14.09.2007	PhD student position	09.2007 – 09.2010	280.000 €