

Curriculum Vitae

Personal information

First name(s) / Surname(s) **Adrian Timofte**
Address(es) 11 Carol I Blvd., 700506 Iasi, Romania
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E-mail timofte.adrian@gmail.com
Nationality Romanian
Date of birth 13.04.1979
Gender male

Present employment / position **National Meteorological Administration/ Forecaster**

Work experience 8 years

Dates July 2003 - present
Occupation or position held Main Forecaster II
Name and address of employer National Meteorological Administration, Regional Forecast Center Bacău, 1 Cuza Voda Str., 600274 Bacău, RO
Type of business or sector Environmental
Main activities and responsibilities
1. working in shifts
2. analyses and interpretation of the meteorological maps- (pressure field at the ground level, TA 850, 700, 500, 1000/500, barometric tendency);
3. analyses and interpretation of prognostic materials ALADIN, ARPEGE, ECMWF, GFS, MM5 etc.
4. tracking and interpretation of satellite images;
5. elaborate and distribution of meteorological warning for severe meteorological phenomena;
6. developing meteorological forecast for 24 and 48 hours, 3 , 5 and 7 days;
7. developing meteorological forecast and diagnoses for the agreements with our clients;
8. control and validation of the meteorological data received from the network;
9. developing forecast with Doppler Radars

Work experience 3 years

Dates 2008-2011
Occupation or position held PhD student, PhD Thesis: *Contributions to the study of some instabilities in fluids, using nonlinear dynamics*
Name and address of employer Alexandru Ioan Cuza University of Iasi
Main activities and responsibilities Member of the next 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 11 months

Dates September 2002- July 2003
Occupation or position held Schoolteacher- physics
Name and address of employer "Miron Costin" School, Miron Costin Street, No. 64 Bacau, Tel.: +40-234-510983
Type of business or sector Educational
Main activities and responsibilities Teaching physics for secondary school students

Education

Dates Oct 2008 – present
Title of qualification awarded PhD Student
Principal subjects/occupational skills covered *Contributions to the study of some instabilities in fluids, using nonlinear dynamics.*
Name and type of organisation providing education and training Alexandru Ioan Cuza University of Iasi, Faculty of Physics

Dates 2002; 2008
Title of qualification awarded BA in Physics; MA in Physics;
Principal subjects/occupational skills covered Physics; Physical and Environmental Protection.
Name and type of organisation providing education and training Alexandru Ioan Cuza University of Iasi. Faculty of Physics.

Trainings

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 09-13 June 2008
Title of qualification awarded Certified / attested
Principal subjects/occupational skills covered Training Workshop on Satellite Meteorology
Name and type of organisation providing education and training Deutscher Wetterdienst European Organization for the Exploitation of Meteorological Satellites- Zentral Anstalt für Meteorologie und Geodynamik Training Workshop on Satellite Meteorology

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 December of 2005
 Title of qualification awarded Changing from debutant forecaster to forecaster, after a written and an oral exam
 Principal subjects/occupational skills covered The achievement of theoretical and practical skills in meteorological science
 Name and type of organisation providing education and training NMA Bucharest

Dates 23th-27th May of 2005
 Title of qualification awarded Certificate of graduating the module of Satellite Meteorological Course
 Principal subjects/occupational skills covered Satellite Meteorological Course
 Name and type of organisation providing education and training NMA Bucharest

Dates 03rd-17th May of 2004
 Title of qualification awarded Graduating Diploma from The Course of General Meteorology
 Principal subjects/occupational skills covered The Course of General Meteorology
 Name and type of organisation providing education and training National School of Meteorology, NMA Bucharest

Personal skills and competences

Mother tongue(s) Romanian

English

Self-assessment
European level ()*

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

French

Self-assessment
European level ()*

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B1	B2	A1	A1	A1

Professional skills and competences

Scientific research activity Analysis and interpretation of weather maps, satellite images and radar data.
 Capability to operate with different techniques of measurement and control;
 Technical skills mounting / dismounting;

Computer Skills User of Windows (7, Vista, XP, 98, 95), Office (Word, Excel, PowerPoint), Origin, Adobe Photoshop

Scientific Papers

ISI Papers:

1. M. Agop, O. Niculescu, A. Timofte, L. Bibire, A. S. Ghenadi, A. Nicuta, C. Nejneru, G.V. Muncelleanu, *Non-differentiable mechanical model and its implications*, International Journal of Theoretical Physics (JTP) Volume 49 Number 7 July 2010
2. A. Timofte, M.M. Cazacu, R. Radulescu, C. Talianu, D. Dimitriu, S. Gurlui – *Romanian LIDAR investigation of the EYJAFJALLAJOKULL volcanic ash*, Environmental Engineering and Management Journal Vol 10, No. 1, 91-97; 2011;
3. M.M. Cazacu, A. Timofte, I. Balin, D. Dimitriu, S. Gurlui, *Complementary atmospheric urban pollution studies in the north-east region of Romania, Iasi county*, Environmental Engineering and Management Journal Vol 10, No. 1, 139-145, 2011;
4. C. Nişulescu, D. Călinoiu, A. Timofte, A. Boscornea, C. Talianu, *Diurnal variation of particulate matter in the proximity of Rovinari fossil-fuel power plant*, Environmental Engineering and Management Journal, Vol.10 No.1, 1-168, January 2011
5. A. Timofte, I. Casian Botez, D. Scurtu, M. Agop, *System dynamics control through the fractal potential*, ACTA PHYSICA POLONICA A, Vol. 119, No 3, March 2011
6. D. C. Bostan, A. Timofte, L. Leontie, *Temperature-Humidity Index. Recent meteorological measurements in the Moldavia region*, accepted for publication, Manuscript Ref. No.: 1546B/07.07.09
7. L. Bibire, A. S. Ghenadi, A. Timofte, L. Leontie, M. Buzdugan, M. Agop, *Possible influences of aerosols on the Schumann frequency spectrum*, accepted for publication, Manuscript Ref. No.: 1548B/07.07.09
8. A. S. Ghenadi, M. Buzdugan, D. C Bostan, L. Bibire, A. Timofte, A. Nicuta, C. Nejneru, M. Agop, *Modifications in Schumann frequency spectrum induced by seismic waves*, accepted for publication, Manuscript Ref. No.: 1547B/07.07.09
9. M. Buzdugan, A. Timofte, L. Bibire, A. S. Ghenadi, A. Nicuta, C. Nejneru, M. Agop, *"Anomalies" of Schumann resonance induced by environment*, accepted for publication, Manuscript Ref. No.: 1566B/07.07.09 (not 1568B)

Books:

1. *The fractal and its implications in the material science*, (editors) Maricel Agop, Pavlos D. Ioannou, Petru Edward Nica, Viorel Paun, Athens University Press, 2008, p 8-66, p. 129-160, ISBN:978-960-92410-1-4
2. *Haoticitate, fractalitate si campuri*, (editori) M. Agop, M. Colotin, V. P. Paun, Ed. Ars Longa, 2009, p. 98-142, p. 189-197, ISBN:978-973-148-034-3

Papers published in journals recognized by CNCSIS:

1. A. Timofte, D.C. Bostan, L. Leontie, *Detectarea grindinei cu ajutorul radarului Doppler*, Revista Stiintifica „V. Adamachi”, 2007
2. L. Leontie, A. Timofte, D. C. Bostan, S. Bostan, *Radarul Doppler. Utilizarea radarului in meteorologie*, Revista Stiintifica „V. Adamachi”, Vol. XVII, Nr. 1, Aprilie-mai 2008, p. 171.(171-174)
3. L. Leontie, A. Timofte, D. C. Bostan, S. Bostan, *THI-Temperature Humidity Index between comfort and discomfort. Recorded values in 2007 summer for Moldavia region*, Present Environment and Sustainable Development (Ed. Univ. “Al. I. Cuza” Iasi), Vol. 2 (2008), 277-281
4. L. Leontie, A. Timofte, D. C. Bostan, S. Bostan, *Artificial satellites. Meteorological satellites*, Present Environment and Sustainable Development, No. 3, 2009
5. A. Timofte, D.C. Bostan, L. Leontie, *Radiometric measurements in eastern Moldavia. Correlations between total cloudiness and the sunshine duration*, Present Environment and Sustainable Development, No. 4, 2010

Papers published in conference proceedings:

1. Marius Mihai Cazacu, Adrian Timofte, Camelia Talianu, Doina Nicolae, Dan Gheorghe Dimitriu, Silviu Gurlui, *Iasi County: Atmospheric volcanic ash cloud investigations. Modeling-forecast and experimental environmental approach*, 5th Workshop on Optoelectronic Techniques for Environmental Monitoring – OTEM 2011, București, Romania;
2. Ioan-Sorin Stratulat, Marius-Mihai Cazacu, Adrian Timofte, Dan-Gheorghe Dimitriu, Silviu Gurlui, *Meteo-climatic factors influence upon Cacica salt-mines, Suceava county-natural climatic areal for medical rehabilitation treatment*, 5th Workshop on Optoelectronic Techniques for Environmental Monitoring – OTEM 2011, București, Romania;
3. Ioan-Sorin Stratulat, Adrian Timofte, Marius-Mihai Cazacu, Dan-Gheorghe Dimitriu, Silviu Gurlui, *Cacica salt-mines, Suceava county: meteorological factors and balneary-climatic potential studies*, 5th Workshop on Optoelectronic Techniques for Environmental Monitoring – OTEM 2011, București, Romania;
4. Ovidiu-Gelu Tudose, Marius-Mihai Cazacu, Adrian Timofte, Ioan Balin, *ESYRO LIDAR system developments for troposphere monitoring of aerosols and clouds properties*, SPIE Remote Sensing, 2011, Prague, Czech Republic.
5. A. Timofte, M.M. Cazacu, D. Dimitriu, S. Gurlui, R. Radulescu, C. Talianu, *Utilizarea sistemelor LIDAR in Romania pentru investigarea norului de cenusa provenit de la vulcanul EYJAFJALLAJOKULL*, Sesiunea anuala de comunicari stiintifice, Administratia Nationala de Meteorologie, 10 – 11 Noiembrie 2010, Bucuresti, Romania
6. A. Timofte, M.M. Cazacu, R. Radulescu, C. Talianu, D. Dimitriu, S. Gurlui, *First Romanian LIDAR investigation of the EYJAFJALLAJOKULL volcanic ash*, 4th International Workshop on Optoelectronic Techniques for Environmental Monitoring – OTEM 2010;
7. M.M. Cazacu, A. Timofte, D. Dimitriu, S. Gurlui, *Experimental validation of MAP 3D environmental data in NE region of Romania-Iasi area*, 4th International Workshop on Optoelectronic Techniques for Environmental Monitoring – OTEM 2010;
8. M. M. Cazacu, A. Timofte, O. Tudose, S. Gurlui, I. Balin – *Testing and validation measurements of a new cost effective up-gradable ESYLIDAR system for aerosols and clouds 3D*, submitted at *Jurnalul Atmospheric Research*, Nr. ref. ATMOSRES-D-10-00407, in press, (2010)
9. A. Timofte, S. Gurlui, M. Agop, *Possible interactions Schumanns waves - seismic waves*, 3rd Workshop on OTEM 2009, Bucharest, Romania, 30 September-2 October (2009);
10. A. Timofte, S. Gurlui, M. Agop, *The influences of aerosols on the effective thermal conductivity of the atmosphere*, 3rd Workshop on OTEM 2009, Bucharest, Romania, (2009);

Awards:

Mention

A. Timofte, D. C. Bostan, L. Leontie, *Detectarea grindinei cu ajutorul radarului Doppler*, 18-19 mai 2007, Conferința Națională „Fizica și Tehnologiile Educaționale Moderne” – Iași

///:

M.M. Cazacu, A. Timofte, O.G. Tudose, D. Dimitriu, S. Gurlui, I. Balin – *mESYLIDAR – A new configuration for 3D monitoring of atmospheric aerosols and clouds*, A XXXIX-a Conferința Nationala Fizica si Tehnologiile Educationale Moderne, 15 Mai 2010, Iasi, Romania (POSTER)

November 1st, 2011

