



Personal information

First name(s) / Surname(s) **Laurențiu-Ioan Caramete**
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Nationality Romanian
Date of birth 18 July 1979
Gender M

Work experience

Dates 2010 →
Occupation or position held Full time researcher (CS III)
Main activities and responsibilities Scientific data analysis, development of MCMC and Boltzmann codes to test different cosmological models, documentation and dissemination of the scientific results, coordinate diploma students
Name and address of employer Institute of Space Science, Bucharest-Magurele
Type of business or sector Research and development
Dates 2004 – 2010
Occupation or position held Junior researcher (CS)
Main activities and responsibilities Scientific data analysis, development of MCMC and Boltzmann codes to test different cosmological models, documentation and dissemination of the scientific results
Name and address of employer Institute of Space Science, Bucharest-Magurele
Type of business or sector Research and development
Dates 2004 – 2005
Occupation or position held Scientist in Virtual Observatory program [VIHKOS](#)
Main activities and responsibilities Study the magnetic, field topology in galactic winds
Name and address of employer Max Planck Institute for Radioastronomy, Bonn, Germany
Dates 2004 →
Occupation or position held Scientist in Auger Experiment
Main activities and responsibilities Scientific data analysis, development of MCMC and Boltzmann codes to test different cosmological models, documentation and dissemination of the scientific results
Name and address of employer Max Planck Institute for Radioastronomy, Bonn, Germany
Type of business or sector Research and development
Dates 2002 – 2003
Occupation or position held Mathematician at S.C. TopoPet S.A., Petrosani, ROMANIA

Main activities and responsibilities - condition surveying data
 - realization of maps and surface representations
 - making of topography program
 - field work for data acquiring

Name and address of employer Institute of Space Science, Bucharest-Magurele
 Type of business or sector Industry

Education and training

Dates 2006-2012
 Title of qualification awarded Graduate of IMPRES Doctoral School, PhD thesis to be defended in 2012
 Principal subjects/occupational skills covered Thesis title: "Ultra-high Energy Cosmic Rays(UHECR) – From Massive Black Holes to Cosmic Rays"
 Name and type of organisation providing education and training International Max Planck Research School – Max Planck Institute of Radioastronomy, Bonn, Germany
 Level in national or international classification ISCED 6

Dates 2003-2005
 Title of qualification awarded Master of Science in Physics
 Principal subjects/occupational skills covered " Magnetic field topology in galactic winds "
 Name and type of organisation providing education and training University of Bucharest – Faculty of Physics (Atoms, Molecules and Astrophysics Dept.)
 Max Planck Institute for Radioastronomy (Theory Group)
 Level in national or international classification ISCED 6

Dates 1997-2001
 Title of qualification awarded Batchelor of Science in Physics
 Principal subjects/occupational skills covered Thesis title: "Quantum relativistic theories of gravity "
 Name and type of organisation providing education and training Faculty of Science, University of Petrosani
 Level in national or international classification ISCED 5

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment
 European level (*)

English
French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user	C1	Proficient user
C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user	B1	Independent user

(*) [Common European Framework of Reference for Languages](http://www.researcherid.com/rid/C-2328-2011)

Organisational skills and competences

Member of Management Committee in EU COST action MP0905 "Blackholes in a violent Universe"
Organizer of Dark Matter Awareness Day Event in Romania
Initiator of the „Science Group” at the Physics Department of University of Petrosani, Faculty of Science
I participated as organizer in several scientific popularization events : "Researchers Night"(2010,2011), "Cu mic cu mare..prin Univers"(2010,2011)

Computer skills and competences

Operating systems: WINDOWS, LINUX, UNIX, Android
Programming languages: C/C++, Java
Other soft packages: Mathematica, CORSIKA, nBody 6, AutoCad2000, AutoCad Land, AutoCad Map 5, AutoCad 2002, MicroStation, Surfer 7

Additional information

STAGES ABROAD:

2005 – 2012 : Max Planck Institute for Radioastronomy, Bonn, Germany - Theory Group , Research on the subject: Black holes and Cosmic Rays at Pierre Auger Observatory

Tasks: - Develop accurate physical models in order to identify the sources for ultra-high energy cosmic rays

- Understand the role of the wind in the evolution of the Galaxy, simulate their behavior and to compare with the observations.

2004 – 2005 University of Bonn, Germany : Research in the framework of the Erasmus/Socrates fellowship

PARTICIPATION IN NATIONAL AND INTERNATIONAL PROJECTS:

2011 Participant in UEFISCDI project "Probing Physics Beyond the Standard Model with Micro-blackholes and neutrinos"

2008 Participant in UEFISCDI project "DARK neutrinons in observational cosmology"

2008 Participant in PNCDI II project "GRID technics in astrophysics with applications in the modeling, distribution and processing data"(GRAPH)

2004 Participant in VIHROS project Virtual Observatory Project

.OTHERS:

„Programming analyst” diploma

„2D Diploma” at the "National AutoCad Contest", Timisoara 2003

Certificate equivalent to two courses of a standard doctorate school from the International School on AstroParticle Physics, European Doctorate School (ISAPP 2005)

Member of the The Association of Amateur Astronomers from the Faculty of Physics University of Bucharest

Member of the Atomic Physics and Astrophysics Research Center, Faculty of Physics University of Bucharest

NATIONAL AND INTERNATIONAL SCHOOLS AND CONFERENCES:

- 2013 - "Exotic Physics with Neutrino Telescope", 03 - 05 April, 2013, Centre de Physique des Particules de Marseille, France
- 2013 - "KM3Net Collaboration Meeting", 28 January - 01 February, 2013, Centre de Physique des Particules de Marseille, France
- 2012 - "Antares Collaboration Meeting", "KM3Net Collaboration Meeting", "MANTS", 30 September - 08 October, 2012, The University of Bologna, Italy, oral presentation with the title "GUT Magnetic Monopoles"
- 2011 - "BLACK HOLES IN A VIOLENT UNIVERSE", 02 - 04 November, 2011, The University of Manchester, United Kingdom, oral presentation with the title "Black Holes: Redshift distribution and n-body simulations"
- 2011 - "Wandering the Universe – beyond the Sun", October 08, 2010, Faculty of Physics, Bucharest, Romania, presentation with the title "N-body simulations and stellar evolution".
- 2010 - "DARK MATTER Awerness Week", December 01-08, 2010, Institute for Space Sciences, Bucharest, Romania, oral presentation with the title "Existence of dark matter".
- 2010 - "Foreign and national research and teaching", September 21-24, 2010, INCAS, Bucharest, Romania, oral presentation with the title "Research center for atomic physics and astrophysics".
- 2010 - "Foreign and national research and teaching", September 21-24, 2010, INCAS, Bucharest, Romania, oral presentation with the title "Cosmic rays and black holes at Pierre Auger Observatory".
- 2010 - "Wandering the Universe", October 04, 2010, Faculty of Physics, Bucharest, Romania, oral presentation with the title "Black holes".
- 2010 - "BLACK HOLES IN A VIOLENT UNIVERSE", 24 - 25 June, 2010, MPIfR, Bonn, Germany, oral presentation with the title "Black hole candidates in the nearby universe"
- 2009 - "SCIENCE SHOW - RESEARCHERS NIGHT", Bucuresti, ROMANIA, interactive oral presentation with the title "Extragalactic Ultra High Energy Cosmic Rays: General presentation and sources prediction"
- 2009 - "ASPERA, Astroparticle physics, the European week", Bucuresti-Magurele, ROMANIA, oral presentation with the title "Extragalactic Ultra High Energy Cosmic Rays at Pierre Auger Observatory"
- 2008 - "National Physics Conference" Bucuresti-Magurele, ROMANIA, oral presentation in the high energy physics and astrophysics section with the title "Extragalactic Ultra High Energy Cosmic Rays: Source sample and predicted sky distribution of events"
- 2008 - "High-Energy Cosmic Rays", 400. WE-Heraeus-Seminar / 11 – 13 February 2008 at the Physikzentrum Bad Honnef (Germany), Bonn, GERMANY, poster presentation with the title "UHECR: Models for Galactic magnetic field and statistics of candidate sources"
- 2007 - "European Radio Interferometry School", Bonn, GERMANY
- 2007 - "Dynamos" Physics Summer School, Les Houches, organized by the Observatoire de Grenoble, Université Joseph Fourier, France, poster presentation with the title "Magnetic field topology in galactic winds"
- 2007 – Conference "Astrophysics, Dynamical Systems and Fractals - past and future", University of Bucharest, Department of Physics, Magurele, ROMANIA, oral presentation with the title "Magnetic field topology in galactic winds"
- 2006 - Research School Summer Meeting, Berggasthof Lausegger, Austria organized by IMPRS, Bonn, GERMANY, oral presentation with the title "Theoretical physical models with Mathematica"
- 2006 - Eleventh Marcel Grossmann Meeting on General Relativity, Berlin
- 2005 - TIM-05, Physics Conference, Timisoara, Romania, poster presentation with the title "Modeling cosmic galactic winds using numerical methods"
- 2005 - NATO-Advanced Study Institute, "PHYSICS AND COMPUTER SCIENCES" Cargese, Corsica, France
- 2005 - International School on AstroParticle Physics, European Doctorate School, Belgirate, Italy

SCIENTOMETRY:

Research ID:

Total Articles in Publication List: 32

Articles With Citation Data: 32

Sum of the Times Cited: 1318

Average Citations per Article: 41.19

h-index: 13

PUBLICATIONS (relevant for the project):