

Curriculum Vitae

Personal information

Surname(s) / First name(s) **MORARU Luminița**
Address(es) 56 Alexandru cel Bun St, 800192, Galati, Romania
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Fax(es) +40 0336 130 286
E-mail luminita.moraru@ugal.ro
Nationality Romanian
Date of birth 21.03.1963
Gender Female

Expertise Medical Engineering
Technical applications of Medical Imaging System: Processing, Algorithms and Artificial Neural Networks
European Programmes and Policy-making and Coordination

Desired employment / Occupational field

CNSPIS

Work experience

08.2007, **PhD advisor**
10.2007 – present **Senior expert of National and International Research Agencies**
04.2005, **Professor**
10.1997, **PhD in Engineering Sciences, Technical Acoustics**
Experience on evaluating project proposal:
2008-2010- for National Agencies- more than 30 projects.
2011 for Irish Research Council for Science, Engineering and Technology IRCSET Postdoctoral Fellowship Schemes
2009-2010- for Katholieke Universiteit Leuven.
2011 Irish Research Council for Science, Engineering and Technology - IRCSET POSTDOCTORAL FELLOWSHIP SCHEMES 2010/2011
2016 - Nucleus programme –part of the National Plan for R&D and Innovation 2013-2020
- 2016 Irish Research Council for Science, Engineering and Technology - IRCSET POSTDOCTORAL FELLOWSHIP SCHEMES 2016/2017
- European Science Foundation expert (20 October 2016 to 19 October 2019) www.esf.org

Dates April 2005 onwards

Occupation or position held Professor

Main activities and responsibilities *Main teaching, courses:* "Physics", "Acoustical waves and vibration";
Research: Medical Engineering;
Technical applications of Medical Imaging System: detection, diagnosis and monitoring; computational methods - medical image reconstruction/analysis - computer aided detection/diagnosis - imaging in diagnostic radiology/echography - segmentation process - classification algorithms – feature extraction - statistical methods.

Name and address of employer University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania
Type of business or sector Education, Research

Dates October 2004- December 2007

Occupation or position held Invited professor

Main activities and responsibilities Teaching: "Management of environmental noise. Noise map" (courses, seminars and tutorials; supervising student license projects)

Name and address of employer State University "B.P. Hasdeu", Cahul, Rep. of Moldova
Type of business or sector Education

Dates	October 1999-March 2005
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching in the field of Physics, Physics of materials, Ultrasonic flaw detection (courses, seminars and tutorials; supervising student license projects and student scientific research).
Name and address of employer	University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania
Type of business or sector	Education
Dates	October 1993-March 1999
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching in the field of Physics, Physics of materials, Ultrasonic flaw detection (courses, seminars and tutorials).
Name and address of employer	University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania
Type of business or sector	Education
Dates	October 1990-March 1993
Occupation or position held	Teaching Assistant
Main activities and responsibilities	Teaching: Physics (designing and course applications).
Name and address of employer	University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania
Type of business or sector	Education

Education and training

Dates	2007 onwards
Title of qualification awarded	MSc
Principal subjects/occupational skills covered	European Programmes and Policy-making and Coordination
Name and type of organisation providing education and training	University "Dunărea de Jos" of Galați, România
Dates	09.2007 – 12.2007
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	Environmental Auditor – Training Programme ECOEVALIND
Name and type of organisation providing education and training	Professional Association of Environmental Auditors, Bucharest, Romania
Dates	09.2007
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	EvAluation of SustainabilitY European COnference & Training Courses EASY-ECO Training Program for Young Researchers on Evaluation of Sustainability
Name and type of organisation providing education and training	Marie Curie Action, Krakow, Poland
Dates	2005-2007
Title of qualification awarded	MSc
Principal subjects/occupational skills covered	Management and environmental monitoring
Name and type of organisation providing education and training	University "Dunărea de Jos" of Galați, România
Dates	09.1992-10.1997
Title of qualification awarded	PhD

Principal subjects/occupational skills covered	<i>The influence of ultrasound on physical properties of aluminium and AISi12% alloy in liquid phase and in solidification processes</i> , in Technical Physics
Name and type of organisation providing education and training	University "Dunărea de Jos" of Galați, România
Dates	09.1981-07.1986
Title of qualification awarded	Bachelor of Physics; Engineer
Principal subjects/occupational skills covered	Technical Physics; Research methods
Name and type of organisation providing education and training	University Bucharest, Physics Faculty, Bucharest, Romania
Membership of professional bodies:	<p>International and national PhD thesis reviewer in acoustic</p> <p>Member of the research team of Materials and Environmental Quality Centre</p> <p>National Council of Scientific Research for Higher Education CNCSIS, evaluator expert (2007-2012)</p> <p>National Centre for Programme Management CNMP, evaluator expert (2007-2012)</p> <p>Evaluator expert for government research grants, registered in the <i>National File of Experts (Registrul Național al Experților - RNE) in Academic and Research</i> (2007-present).</p> <p>Romanian Agency for Quality Assurance in Higher Education ARACIS evaluator expert</p> <p>Member of the European Technology Platform "Networked and Electronic Media" - Romanian Mirror Group</p> <p>Member of the European Technology Platform ARTEMIS „Intelligent Embedded Systems”, Romanian Mirror Group</p> <p>Scientific committee- member of scientific board for international/national conferences</p> <p>Scientific reviewer – more than 30 journals</p> <p>Member of the Board of External Examiners to adjudicate on the international PhD thesis- Annamalai University, India</p>
Personal skills and competences	<p>Sound basis on knowledge on EC funded projects and grant scheme management; Knowledge of tendering and procurement procedures under national projects; Working with national consultancy agencies.</p> <p>Human resources development- Training needs analysis; Delivery of training programmes (mainly for teachers) at local level; Training of trainers; Educational Management.</p> <p>Scientific committee- member of scientific board for international/national conferences</p> <p>Member of Editorial Board:</p> <p>International Journal of Radiology</p> <p>International Journal of Ambient Computing and Intelligence</p> <p>Radiological Techniques and Scans</p>
Native language	Romanian
Other language(s)	
Self-assessment <i>European level (*)</i>	
English	
French	
Social skills and competences	<p>Team work: I have worked in various research teams</p> <p>Training and experience in management, international perspective, maturity and good networking skills;</p> <p>Proactive self-starter, very good with generating ideas and implementing them</p> <p>Very good oral and written communication and interpersonal skills.</p> <p>High commitment to team working on both national and international level, in multicultural environments.</p> <p>Presentation skills in executive level settings.</p>

(*) *Common European Framework of Reference for Languages*

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Advanced user	B2	Advanced user	B1	Independent user	B2	Independent user	B2	Advanced user
A2	Intermediate user	A2	Intermediate user	A2	Intermediate user	A2	Intermediate user	A2	Intermediate user

Organisational skills and competences	<p>During my academic activity I organised more seminar series on teaching and research methods.</p> <p>Project management, including supervision: Project Director of 4 research international contracts with European financing</p> <p>Experienced in project planning and administration, in team management</p> <p>Experienced in scientific publishing management: The Annals of the University „Dunărea de Jos” of Galati: Fascicle Mathematics, Physics, Theoretical Mechanics</p>
Technical skills and competences	<p>In depth knowledge of: physics of material, melting and solidification processes (experiments' design, experimental modelling), surface topography analyses</p> <p>Human resources development- Training needs analysis; Delivery of training programmes (mainly for teachers) at local level; Training of trainers; Educational Management</p> <p>Very good skills in: measurement equipment; computational data processing and analysis.</p>
Computer skills and competences	<ul style="list-style-type: none"> - Experienced with Matlab, Statistica, ORIGIN, Designer, MS Windows, MS Office (Excel, Word, and PowerPoint), Photoshop Paint, Adobe Acrobat Reader 6.0. - Experienced in: computer data acquisition, data processing - Experienced in Internet use, search techniques and managing email.
Other skills and competences	Sport, gardening
Driving licence	B category
Additional information	<p>h-index : 9 (Web of Science)</p> <p>h-index : 15 (Google Scholar)</p> <p>h-index : 12 (Scopus)</p> <p>Personal website: http://www.phys.ugal.ro/Moraru_Luminita/Prezentare.htm</p> <p>http://www.researcherid.com/rid/A-8532-2012</p> <p>http://scholar.google.com/citations?user=h3vqhwwAAAAJ</p> <p>http://www.scopus.com/cto2/main.uri?origin=resultslist&stateKey=CTOF_672217960</p>
Publications in the interest field	<p>Books</p> <p>L. Moraru, S. Moldovanu and A. Biswas, Intensity – based classification and related methods in brain MR images, chapter in book: Classification and Clustering in Biomedical Signal Processing, Editor Nilanjan Dey, Publisher IGI Global USA, ISSN: 2327-9354, 2016 – in press</p> <p>Academic Work and Careers in Europe: Trends, Challenges, Perspectives, chapter: Implementation of Quality Assurance Systems in Academic Staff Perspective-An Overview; by Luminita Moraru, Mirela Praisler, Simona Marin, Corina Bentea, University Dunarea de Jos of Galati, Romania, Tatiana Fumasoli, Gaële Goastellec, Barbara M. Kehm Editors, 2015 Springer International Publishing Switzerland, pp 151-176, ISBN 978-3-319-10719-6</p> <p>L. Moraru, S. Moldovanu, D. Bibicu, <i>Metode avansate de procesare și analiză a imaginilor complexe/ Advanced methods for complex image processing and analysis</i>, Galați University Press 2013, ISBN 978-606-8348-67-4, pp.1-196.</p> <p>THE ACADEMIC PROFESSION IN EUROPE: NEW TASKS AND NEW CHALLENGES, chapter ACADEMIC PROFESSION: QUALITY ASSURANCE, GOVERNANCE, RELEVANCE AND SATISFACTION, by Luminita Moraru, Mirela Praisler, Simona Alecu Marin, Cristina Corina Bentea (Dunărea de Jos” University, Galați), Editors: Barbara M. Kehm; Ulrich Teichler, Auflage 2012, 180 Seiten, 2012 Springer Netherlands, pg. 141-162, ISBN 978-94-007-4613-8</p> <p>L. Moraru <i>Unde acustice și vibrații/Sound waves and vibrations</i>, Editura Fundației Universitare “Dunărea de Jos”, Galați, (187 pag), ISBN 973-627-174-9, 2004</p> <p>L. Moraru <i>Cavitația acustică/ Acoustic Cavitation</i>, Editura Oficiului de Informare Documentară pentru Industrie, Cercetare, Management, București, (198 pag), ISBN 973-8001-36-6, 2002</p> <p>L. Moraru, <i>Fizica Materialelor/Physics of Materials</i>, Editura Fundației Universitare “Dunărea de Jos”, Galați, (186 pag), ISBN 973-99667-9-9, 2000</p>

Research Projects

Projects - national coordinator

1. **H2020-BES-2015**, Type of action: RIA, Proposal number: **700399**, Title: **Multi-Energy High Resolution Modular Scan System for Internal and External Concealed Commodities**, Proposal acronym: **MESMERISE**, 2016-2019
2. **European Science Foundation**, Eurocores Programme European Collaborative Research EuroHESC Higher Education and Social Change
Project number: **FP-003: 2009-2013**
Project title: **The Academic Profession in Europe: Responses to Societal Challenges (EUROAC)**, Principal Investigator: Prof. dr. L. Moraru
3. **Programme Europeene: STAR-NET – Stimulate the participation of organizations from Member States and candidate countries in Information Technology in the Framework Programme FP 6**, EUROPEAN IST, no 015742; 2005-2006
4. **CEEX FP-6160/26.09.2006**, Management of the FP7 programmes, 2006, Project coordinator
5. **EU – Grant - Evaluation of Sustainability**, 5-14 Sept 2007 Krakow, Poland, Financed by the European Union Marie Curie Conferences and Training Courses, EASY-ECO 2005-2007, contract no. MSCF-CT-2004-516613, grant holder
6. Grant **NEXUS**, **Cooperation in industry-oriented research in an enlarged Europe**, March 2007, The Nexus Association Switzerland, grant holder
7. **TEMPUS EQADE, Embedding Quality Assurance in Doctoral Education**, (516891-TEMPUS-1-2011-DE-TEMPUS-SMGR), 2011-2014
8. **EUROPEAN COMMISSION- RESEARCH DIRECTORATE-GENERAL** project **MORE-II N°-RTD-2010-S236-359211** Support for continued data collection and analysis concerning mobility patterns and career paths of researchers, 2012-2013, country expert for Romania

Senior researcher

1. **COST 636 Xenobiotics in the urban water cycle**, 2005 1st Stage, 2005-2007
2. **PARTNERSHIPS - NATIONAL PROGRAMME 2007-2010**, Adaptive bio-mimetic sonar heads for autonomous vehicles, CNMP 12079/2008
3. **PARTNERSHIPS - NATIONAL PROGRAMME 2007-2010**, Archaeometric Expert System for Intelligent Prevention against trafficking values of the cultural-historical heritage, CNMP 81-040/2007
4. **TACIS- PHARE- Integrated monitoring of environmental media (air, water, soil) in the Lower Danube Euroregion**, Galati-Cahul area RO 2004/016-941.01.01.04
5. **CAPACITIES - NATIONAL PROGRAMME 2007-2010**, Interdisciplinary Laboratory for Vibro-Acoustical Measurements in the Occupational Environment PEM. Module I,
6. **CAPACITIES - NATIONAL PROGRAMME 2007-2010**, Laboratory of numerical simulation in mechanics of fluids, CFDLAB
7. **Technical Education on Resource Savings for Industrial Development (TERSID)517361-TEMPUS-1-2011-1-IT-TEMPUS-JPHES**, 2011-2014
8. **MIS ETC 1676**, **Cross-border interdisciplinary cooperation for the prevention of natural disasters and mitigation of environmental pollution in Lower Danube Euroregion**, 2013-2015