



## Europass Curriculum Vitae

### Personal information

Surname/ First name **Niculescu Gabriela**  
Address(es) Str. Ion Urdareanu nr.5 bl P41 sc A apt 16, sector 5, Bucharest, Romania  
Telephone(s) 40-31 424 2925 Mobile: 40-0728 162327  
E-mail gnicules@gmail.com  
Nationality Romanian  
Date of birth 18.09.1969  
Gender Female

### Desired employment / Occupational field **Medical Imaging Analysis, Minimally Invasive Therapies, Biomedical & Pharmaceutical Research, Medical Imaging & Informatics software**

### Work experience

Dates October 2010 - present  
Occupation or position held Lecturer  
Main activities and responsibilities Teaching and research. Leadership courses, computer labs: Medical Imaging and Informatics.  
Name and address of employer Polytechnic University of Bucharest, Faculty of Medical Engineering

Dates July 2000 - July 2008  
Occupation or position held Research assistant  
Main activities and responsibilities I investigated the feasibility of applying a wide variety of scientific principles and concepts to computer-assisted diagnostics and drug discovery development. I designed and implemented new approaches in medical imaging and computer vision to reliably track, model and characterize morphometric changes in anatomic structures and tumors from CT and MR images sequences. I designed and executed experiments to test hypothesis related to drug actions in order to provide effective therapeutic modalities. I trained others using a variety of methods on the theoretical and practical basis of techniques.  
Name and address of employer Center for Biomedical Imaging & Informatics, University of Medicine and Dentistry – Robert Wood Johnson of New Jersey, USA.  
<http://pleiad.umdj.edu/CBII/>  
Type of business or sector Medical Image, Computational Bioengineering

Dates September 1999 - June 2000  
Occupation or position held Research assistant  
Main activities and responsibilities I designed and implemented different graphical tests to understand how eye movements are planned in conjunction with visual and cognitive processes, such as attention, perception and memory.  
Name and address of employer Eye movements, Vision & Cognition Lab, Department of Psychology, Rutgers University, New Jersey, USA.  
Type of business or sector Software

Dates June 1995 - July 1998  
Occupation or position held Multimedia educational games programmer  
Main activities and responsibilities I implemented for the international developer interactive entertainment games : „Adventures in Music with the Recorder”, on the market in 1997 and „Payuta and the Ice God”, on the market in 2001. Image processing, multimedia.  
Name and address of employer UBISoft, Bucharest, Romania.  
Type of business or sector Software

### Education and training

Dates October 2003 - July 2008  
Title of qualification awarded PhD in Biomedical Sciences, joint degree  
Principal subjects/occupational skills covered Thesis title : 3-D Morphometry and Nonrigid Registration for Quantitative Analysis and Clinical Assessment in Radiology  
Research focused on the design and implementation of new approaches in medical imaging and computer-assisted diagnostics.  
Name and type of organization Rutgers, The State University & University of Medicine and Dentistry – Robert Wood Johnson of New

providing education and training | Jersey, USA.  
 Level in national or international | ISCED 6  
 classification  
 Dates | September 2000 – October 2003  
 Title of qualification awarded | Master, Computational Bioengineering and Biomedical Imaging, joint degree  
 Principal subjects/occupational skills | Course work: Medical Physiology, Cardiovascular Physiology, Circulatory Dynamics, Computer  
 covered | Applications in Biomedical Engineering, Advanced Computer Applications in Biomedicine, Biocontrol,  
 Modeling and Simulation, Design of Medical Instrumentation, Nonlinear Biodynamics, Digital  
 Radiology, Fundamentals of Computer Tomography, Pattern Recognition Theory and Applications,  
 Robust Image Understanding.  
 Name and type of organization | Rutgers, The State University & University of Medicine and Dentistry – Robert Wood Johnson of New  
 providing education and training | Jersey, USA.  
 Level in national or international | ISCED 6  
 classification  
 Dates | September 1989 – June 1994  
 Title of qualification awarded | Bachelor of Science in Bioinformatics  
 Name and type of organization | Polytechnic University of Bucharest, Department of Automatic Control and Computers  
 providing education and training |  
 Level in national or international | ISCED 5  
 classification

**Personal skills and competences**

Mother tongue(s) | **Romanian**  
 Other language(s)

Self-assessment  
 European level (\*)

**English**  
**Spanish**

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

(\*) Common European Framework of Reference for Languages

Social skills and competences | Team work: I have worked in different projects from research to development. I have very good mediating skills in various types of teams from researchers and professors to physicians. Experienced with leading a team of many people with different nationalities.  
 Organizational skills and competences | Highly motivated, ability to lead and develop a team. I have good experience in the management of projects, excellent in negotiation and presentation. Ability to structure tasks, solve issues, handle multiple tasks at the same time. During my PhD I have organized different seminar series on research and implementation methods.  
 Computer skills and competences | Operating systems: Unix/Linux, Windows  
 Languages: C/C++, Matlab  
 Medical Software

**Publications**

**Acknowledgments:**

- These research projects have been funded from the National Institute of Health under grant contract 5R01LM007455-02 from the National Library of Medicine, the Whitaker Foundation under grant contract 98-0202, the National Institute of Biomedical Imaging and Bioengineering under grant contract 1R01EB003587-01A2, the Radiological Society of North America, and the private sector - the Abbott Laboratories.

**Book:**

- Gabriela Niculescu „3-D Morphometry and Registration – Quantitative Analysis and Clinical Assessment in Diagnostic and Interventional Radiology”, VDM Verlag Dr. Muller & Co. KG , July 2009.

**Articles:**

- Mircea Medrea, Gabriela Niculescu, Marian. Adam, C-tin. Popa, C.

Chiricută, DTI (diffusion tensor imaging) - în planning-ul radioterapeutic și în monitorizarea tumorilor cerebrale, CONFER Conference of Regional Institute of Oncology, Romania, Iasi, 27-30 November 2014.

- Ana Enea, Gabriela Niculescu, Adina Roceanu, Mihaela Onu, "Gray Matter Morphological Changes in Parkinson Disease - A VBM Analysis", 20th World Congress on Parkinson's Disease and Related Disorders, Geneva, 8-11 Decembrie 2013
- Mihaela Onu, Ana Enea, Gabriela Niculescu, "White Matter Fractional Anisotropy Changes in Parkinson Disease - A Voxelwise Analysis", 20th World Congress on Parkinson's Disease and Related Disorders, Geneva, 8-11 Decembrie 2013
- Ala Bondarciuc, Gabriela Niculescu, Vlad Bondarciuc, M. Petrutescu, G.S. Tiplica, C. I. Targoviste et. Al " Premisele utilizarii mamografiei digitale de electroimpedanta in telemedicina", Congresul Anual al Asociatiei Medicale Romane, Bucuresti, Mai 2010.
- Ala Bondarciuc, G.S. Tiplica, Gabriela Niculescu, C. I. Targoviste et. Al " Premisele utilizarii mamografiei digitale de electroimpedanta in screeningul cancerului de san", Congresul Anual al Asociatiei Medicale Romane, Bucuresti, Mai 2010.
- Gabriela Niculescu, John L. Noshier, Schneider B, David J. Foran „A deformable model for tracking tumors across consecutive imaging studies” International Journal of Computer Assisted Radiology and Surgery, June 2009, 4(4): 337-347.
- Gabriela Niculescu, John L. Noshier, David J. Foran „Non-rigid Registration of the Liver in Consecutive CT Studies for Assessment of Tumor Response to Radiofrequency Ablation”, IEEE Proceedings of the Engineering in Medicine and Biology Society, Lyon 2007, 856-859.
- Gabriela Niculescu, John L. Noshier, David J. Foran „ Quantitative Morphologic Studies in Neuroradiology using Shape Signatures and Dynamic Databases”, Integrated Advanced Information Management Systems, Philadelphia 2003.
- P. Aupperle, S. Sohnle, et. Al „A 26 Week, Double-Blind, Placebo-Controlled Study of the Efficacy and Safety of Divalproex Sodium ER augmentation of Donepezil for Cognition, Hippocampal Volume, and Behavior in Mild / Moderate Alzheimer's Disease (AD) ” 11th Congress of the International Psychogeriatric Association, Chicago, September 2003, 15 (2).
- Gabriela Niculescu, Louay Toni, David. J. Foran et. al „A Dynamic Imaging Database for 3-D Morphologic Analysis and Clinical Assessment in Diagnostic Radiology”, Proceedings of the American Medical Informatics Association, San Antonio, TX, 2002.