

## Europass Curriculum Vitae



### Personal information

First name/Surname Florian Munteanu  
 Addresses Str Nanterre, Nr 53, BI D10, Sc 2, Ap 3, 200492 Craiova, Dolj, România  
 Str Banilor, Nr 35, 207206 Cârcea, Dolj, România  
 Telephones 0723529752, 0251470646  
 E-mails munteanufm@gmail.com, munteanufm@central.ucv.ro  
 Nationality Romanian  
 Date of birth 18/04/1973  
 Gender M

### Work experience

20 years  
 Dates October/2003 to September/2017  
 Occupation or position held Lecturer  
 Main activities and responsibilities Research and teaching in Department of Applied Mathematics, University of Craiova. Teaching Courses, Seminars  
 Name and address of employer University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania  
 Type of business or sector Research and Higher Education  
 Dates October/2001 to September/2003  
 Occupation or position held Assistant Professor  
 Main activities and responsibilities Research and teaching in Department of Applied Mathematics, University of Craiova  
 Name and address of employer University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania  
 Type of business or sector Research and Higher Education  
 Dates October/1999 to September/2001  
 Occupation or position held Assistant Professor  
 Main activities and responsibilities Research and teaching in Department of Applied Mathematics in Economy, Faculty of Mathematics and Informatics, University of Craiova.  
 Name and address of employer University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania  
 Dates October/1997 to September/1999  
 Occupation or position held Junior Teaching

Main activities and responsibilities | Research and teaching in Department of Applied Mathematics in Economy, Faculty of Mathematics and Informatics, University of Craiova.

Name and address of employer | University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania

Type of business or sector | Research and Higher Education

**Education and training**

Dates | November/1997- May/2002

Title of qualification awarded | Ph D in Mathematics

Principal subjects/occupational skills covered | Differential Geometry/Lagrange-Finsler-Hamilton Geometry and Applications to Dynamical Systems

Name and type of organisation providing education and training | University of Craiova

Level in national or international classification | ISCED 8

Dates | October/1996-June/1997

Title of qualification awarded | Master's Degree in Mathematics

Principal subjects/occupational skills covered | Applied Mathematics/ Equations of Evolutions and Dynamical Systems

Name and type of organisation providing education and training | University of Craiova

Level in national or international classification | ISCED 7

Dates | October/1991-June/1996

Title of qualification awarded | Bachelor's Degree in Mathematics

Principal subjects/occupational skills covered | Mathematics, Informatics

Name and type of organisation providing education and training | University of Craiova

Level in national or international classification | ISCED 6

Dates | September 1987-June 1991

Title of qualification awarded | High School Diploma

Principal subjects/occupational skills covered | Mathematics, Physics

Name and type of organisation providing education and training | „Fratii Buzesti” High School, Craiova, Dolj, Romania

Level in national or international classification | ISCED 5

**Personal skills and competences**

Mother tongue(s)

**Romanian**

Other language(s)

**English, French**

Self-assessment / Official certificate

European level (\*)

**English**

**French**

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

Levels: A1/A2: Basic user – B1/B2: Independent user – C1/C2 Proficient user

(\*) [Common European Framework of Reference for Languages](#).

Language certificates

Certificate of Language Proficiency, Faculty of Letters, University of Craiova, 2011  
Diploma « Alliance Francaise », Craiova, 1997

Social skills and competences	Works well in teams
Driving licence	B category since 1992
Organisational skills and competences	Attention to details, focus oriented, good knowledge in technical domains
Computer skills and competences	Good command of LaTeX, Scientific Word, Microsoft Word™, Maple, MatLab, Mathematica.
Domains of competence	Linear Algebra, Geometry, Differential Geometry, Dynamical Systems, Mathematical Physics
<b>Additional informations</b>	
Memberships	SSMR (member) since 1997, ROMAI (member) since 2015
International grant	EU grant FP7-PEOPLE-2012-IRSES-316338: Dynamical systems and their applications, 01.10.2012-30.09.2016, member, with individual scientific mobility: <ol style="list-style-type: none"> <li>1) 01.03.2013-31.03.2013, Department of Mathematics, Shanghai Jiao Tong University, China</li> <li>2) 10.02.2014-10.04.2014, Department of Mathematics, University of Sao Paulo, Brasil</li> <li>3) 24.06.2015-23.07.2015, Department of Mathematics and Mechanics, Belarusian Stat University of Minsk, Belarus</li> </ol>
National grants	<ol style="list-style-type: none"> <li>1. CNCSIS-MedC grant nr. 81: Geometria subspațiilor Finsler, Lagrange și Hamilton. Aplicații în mecanică, 2005, member</li> <li>2. CNCSIS-MedC grant nr. 100: Integrarea asimptotică a unor clase de modele diferențiale din ecologie și mecanica fluidelor, 2007, member</li> </ol>
Local grants	<ol style="list-style-type: none"> <li>1. University of Craiova grant nr. 19C: Ecuații diferențiale: Studiul calitativ, procesare numerică eficientă și aplicații, 2014, member</li> <li>2. University of Craiova grant nr. 3C: Metode cantitative și calitative utilizate în studiul activităților de turism din județul Mehedinți și posibilități de optimizare a acestora, 2014, member</li> </ol>
EU GRUNDVIG LLP/ERASMUS individual scientific mobility	<ol style="list-style-type: none"> <li>1. 28.06.2011-02.07.2011, European Initiative for Education, H.O. Staglgasse 13, Wiener Neustadt 2700, Austria</li> <li>2. 26.09.2011-30.09.2011, Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece</li> <li>3. 24.09.2012-28.09.2012, Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece</li> <li>4. 01.11.2013-08.11.2013, Departamento de Xeometria e Topologia, Universidade de Santiago de Compostela, Santiago de Compostela, Spania</li> <li>5. 19.04.2015-26.04.2015, Department of Mathematics, Uludag University of Bursa, Turkey</li> </ol>
Research stages obtained by direct competition	<ol style="list-style-type: none"> <li>1. Postdoctoral grant of the Romanian Government, by ONBSS-MEC, 01.03.2003-31.05.2003, Departamento de Xeometria e Topologia, Universidade de Santiago de Compostela, Spain</li> <li>2. TEMPUS master student grant, 15.03.1997-15.06.1997, Laboratoire D'Analyse Numerique, Universite "Pierre et Marie Curie" Paris, France</li> </ol>
School math student	<ol style="list-style-type: none"> <li>1. International Spring School of Riemannian Geometry, organized by French Embassy of Bucharest, Sinaia, Mai 1995</li> <li>2. International Autumn School of Convex and Discret Geometry, organized by Faculty of Mathematics and Informatics, University of Craiova and Faculty of Mathematics, University of Dortmund, Craiova, September 2004.</li> </ol>
Citations	32 citations in ISI papers (h-index 2), 10 citations in Scopus papers (h-index 2), 111 citations in Scholar Google (h-index 4; i10-index 1)

Courses (taught)	<p>Linear algebra, analytical and differential geometry, Special Chapters of Mathematics II (Probability and Statistics), at undergraduate level, at Faculty of Automation, Computers and Electronics, University of Craiova, 2005-2016, respectively 2016-2017</p> <p>Introduction to Finite Element Method, at undergraduate level, at Faculty of Electrical Engineering, University of Craiova, 2016-2017</p> <p>Linear algebra, Mathematics, at undergraduate level, at Faculty of Agriculture and Horticulture, University of Craiova, 2002-2004</p>
Conferences attended	28 Conferences since 1998

## Publications

## Monographs:

1. Stănescu M.M., Munteanu F., Slesar V., Caiet de seminar pentru Algebră liniară, Geometrie analitică și Geometrie diferențială, Reprografia Universitatii din Craiova, 2000, 300 pag
2. Stavre P., Munteanu F., Popescu L., Slesar V., Probleme de algebră și analiză matematică (teste grilă), Editura Universitaria, Craiova, 2000, 115 pag
3. Stănescu M.M., Munteanu F., Slesar V., Probleme de Algebră liniară, Geometrie analitică și Geometrie diferențială, Editura Universitaria, Craiova, 2003, 286 pag
4. Stănescu M.M., Munteanu F., Slesar V., Culegere de probleme de Algebră liniară, Geometrie analitică și Geometrie diferențială, Editura Sitech, Craiova, 2006, 282 pag
5. Vladimirescu I., Munteanu F., Algebra liniară, Geometrie analitică și Geometrie diferențială, Editura Universitaria, Craiova, 2007, 220 pag
6. Stănescu M.M., Munteanu F., Slesar V., Culegere de probleme de Algebră liniară, Geometrie analitică și Geometrie diferențială, ed. a II-a Editura Sitech, Craiova, 2010, 280 pag
7. Boureanu, M.M., Danet, C., Diamandescu, A., Ionescu, A.J., Militaru, R., Munteanu, F., Popescu, G., Popescu, M., Popescu, P., Racila, M., Vladimirescu, C., Qualitative Study of Differential Equations, Geometrical and Dynamical Aspects of Some Mechanical Systems, Numerical Treatment, and Applications, Ed. Universitaria, Craiova 2015, 430 pag. (capitolele 8 și 9)  
ISBN 978-606-26-0168-3

32 published papers: 13 papers reviewed in Zentralblatt and 26 papers reviewed in Mathematical Reviews

6 papers are ISI indexed, as follows:

## ISI Journals:

1. Munteanu F., Salgado M., Angel M. Rey, The Günther's formalism in classical field theory: momentum map and reduction, Journal of Mathematical Physics, vol. 45, no. 5, May, 2004, pp. 1730-1751, ISSN 0022-2488 (1,43 IF)
2. Munteanu, F. About symmetries and conservation laws in Lagrangian and Hamiltonian k-symplectic formalism, An. Univ. Al.I. Cuza din Iasi (S.N.), Mat., tom LIII, 2007, supl 249-267, ISSN 1221-8421 (0,25 IF)
3. F. Munteanu, Symmetries, psudosymmetries and conservation laws in Lagrangian and Hamiltonian k-symplectic formalisms, Int. J. Geom. Meth. Mod. Phys., 13 (03), (2016), 1650026 (15 pages) (0,769 IF)

## ISI Conferences:

1. Munteanu F., On the Semispray of Nonlinear Connections in Rheonomic Lagrange Geometry, Proc. of International Conference of Finsler and Lagrange Geometry, Iasi, Romania, "Al. I. Cuza" University of Iassy, edited by M. Anastasiei, Kluwer Academic Publishers, 2003, pp. 129-137, ISBN/SKU 1402013906
2. Militaru R., Munteanu F., Computational Analysis of Conservation Laws for Prey-Predator Lotka-Volterra Systems, Proc. of ICATE 2014-International Conference on Applied and Theoretical Electricity, October 23-25, 2014, University of Craiova, Romania, Editor IEEE, pp.1-7, DOI: 10.1109/ICATE.2014.6972592
3. A. Ionescu, F. Munteanu, A geometric and computational analysis of Chua's circuit system, Proc. of ICATE 2016-International Conference on Applied and Theoretical Electricity (ICATE), October 6-8, 2016, University of Craiova, Romania, Editor IEEE, pp. 1-5, DOI: 10.1109/ICATE.2016.7754602

BDI Journals:

1. Munteanu F., Dynamical Systems on First and Second Order Hamilton Spaces, Proc. of the Fifth International Workshop on Differential Geometry and Its Applications, Timisoara, 18-22 septembrie 2001, Universitatea de Vest Timisoara, 2001, An. Univ. de Vest Timisoara, vol. XXXIX, 2001, ser. Mat.-Inf., fasc. sp Matematica, pp. 313-323, ISSN 1224-970X
2. Munteanu F., Conservation Laws for Dynamical Hamiltonian Systems on Hamilton Spaces of Order  $k > 1$ , Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Ser. Mathematics-Physics, tom 47(61), fasc. 1, 2002, pp. 53-58, ISSN 1224-6069
3. Popescu L, Munteanu F., The Variational Problem in Singular Rheonomic Lagrange Spaces, Analele Univ. de Vest Timisoara, Ser. Matematica-Informatica, vol. XL, fascicula 1, 2002, pp. 111-122, ISSN 1224-970X
4. Munteanu F., Dynamical Hamiltonian Systems on Hamilton Spaces  $H^{(k)n}$ , Libertas Mathematica, vol. XXIV, 2004, Arlington, Texas, USA, pp. 103-110, ISSN 0278-5307
5. Munteanu F., Second Order Partial Differential Equations (SOPDE's) and Nonlinear Connections on the Tangent Bundle of  $k^1$ -Velocities of a Manifold, Differential Geometry - Dynamical Systems Journal, vol. 8, 2006, pp. 166-180, ISSN 1454-511X
6. Munteanu F , Symmetries and conservation in k-symplectic geometry, BSGP 20/2013, pp. 16-35, ISSN 1843-2654
7. Militaru R., Munteanu F., Symmetries and Conservation Laws for Biodynamical Systems, Int. J. of Math. Models and Methods in Applied Sciences, Issue 12, Volume 7, 2013 , pp. 965-972
8. Militaru R., Munteanu F., The Hamiltonian Dynamical System Associated to the Isotropic Harmonic Oscillator-A Numerical Study of Conservation Laws, Int. J. of Math. Models and Methods in Applied Sciences, Issue 12, Volume 7, 2013 , pp. 993-1004
9. Munteanu F., Geometric methods for the study of dynamical systems. Symmetries and conservation laws, Physics AUC , vol. 23, 42-54 (2013)
10. F. Munteanu, Geometric methods for the study of symmetries and conservation laws for presymplectic systems, BSGP vol. 21, 2014, pp. 96-107, ISSN 1843-2654.
11. Militaru R., Munteanu F., A Geometrical and Numerical Study of the Main Sizes of the Lotka-Volterra Models, Annals of the University of Craiova, Electrical Engineering series, No. 38, 2014, pp. 18-27, ISSN 1842-4805
12. Munteanu F., Militaru R., Geometrical methods and numerical computations for the study of mathematical models of the multi-species interactions, BSGP vol. 22, 2015, pp. 51-60, ISSN 1843-2654.
13. A. Ionescu, R. Militaru and F. Munteanu, Geometrical Methods and Numerical Computations for Prey-Predator Systems, British Journal of Mathematics & Computer Science, 2015 10(5): 1-15.
14. A. Ionescu, F. Munteanu, On the Feedback Linearization for the 2D Prey-Predator Dynamical Systems, Bull. St. Univ. Politehnica Timisoara, ser. Math-Phys, vol. 60, no. 2, 2015, pp. 17-25
15. F. Munteanu, On the k-Semispray of Nonlinear Connections in k-Tangent Bundle Geometry, Int. Frontier Sci. Lett., vol. 7, (2016), pp. 1-10, ISSN 2349-4484.
16. Munteanu F., Militaru R., A numerical study of the Hamilton-Poisson structures of the SIR-model of epidemics evolution, Applied Sciences (APPS) vol. 18, 2016, pp. 74-83, ISSN 1454-5101.
17. A. Ionescu, F. Munteanu, Optimal control of a stochastic version of the Lotka-Volterra model, General Mathematics, vol. 24, no. 1, 2016, pp. 3-10, ISSN 1221-5023.

Other relevant papers:

1. Munteanu F., Estimation superieure de la dimension de Hausdorff de l'attracteur associe aux problemes d'evolution, Analele Universitatii "Dunarea de Jos" din Galati, seria Matematica, Fizica, Mecanica Teoretica, fascicula II, supliment la tomul XVI (XXI), 1998, vol. I, Matematica, pag. 137-153, ISSN 1221-4531
2. Mustafa O., Astefanei I., Munteanu D., Munteanu F., The Asymptotic Behavior of Positive Solutions for a Class of Nonlinear Differential Inequations of Second Order", Analele Universitatii din Craiova, Seria Mecanica, nr.1/1999, pp. 30-34, ISSN 1223-5296
3. Popescu L., Munteanu F., Slesar V., Sterbeti C., On Gauge Transformation in Relative Tangent Spaces and Nonlinear Gauge Connection, Studii si Cercetari Stiintifice, Universitatea Bacau, Seria Matematica, nr.10/2000, pp. 223-232, ISSN 1224-2519
4. Mustafa O., Munteanu F., The Almost Presumable Maximality of Some Topological Lemma, S. N. Journal, vol. 11, no. 1-2-3, USA, 2000, pp. 192-195
5. Seleacu V., Munteanu F., Approximations for Some Characteristics of a Certain Galton-Watson Multiplying Process, S. N. Journal, vol. 12, USA, 2001, pp. 180-191
6. Munteanu F., A Study on the Dynamical Systems in the Lagrangian and Hamiltonian Formalism, Proc. Conferintei Anuale Nationale a S.S.M.R., Brasov, 24-26 mai 2001, Universitatea "Transilvania" Brasov, 2001, vol. I, pp.169-178, ISBN 973-635-044-4, 973-635-045-2 vol. I
7. Munteanu F., Dynamical Hamiltonian Systems on Hamilton Spaces of Higher Order, Proc. of International Conference on Non-Euclidian Geometry in Modern Physics, Boyai-Gauss-Lobachevsky 3, July 3-6, 2002, Tg. Mures, Romania, edited by I. Lovas, EP Systema Debrecen, Hungary, 2003, pp. 11-17, ISBN 963 206 213 2
8. Militaru R., Munteanu F., A Numerical Study of Conservation Laws of the Hamiltonian Dynamical Systems Associated to the Isotropic Harmonic Oscillator, Proc. 13th Int. Conf. Electric Power Systems, High Voltages, Electric Machines (POWER '13), Chania, Crete Island, Greece, August 27-29,2013 , WSEAS Press 2013, pp. 170-179.
9. Militaru R., Munteanu F., Geometric Methods for the Study of Biodynamical Systems. Symmetries and Conservation Laws, Proc. 9th Int. Conf. Cellular and Molecular Biology, Biophysics and Bioengineering (BIO '13) Chania, Crete Island, Greece, August 27-29, 2013, WSEAS Press 2013, pp. 54-61.

April 1, 2017

Lecturer dr. Munteanu Florian