Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Maria-Magdalena BOUREANU**
Professional Address	Department of Applied Mathematics, University of Craiova, 13 A.I. Cuza Street, 200585, Craiova, Dolj, Romania
E-mail	mmboureanu@yahoo.com
Nationality	Romanian
Date of birth	December 28, 1980
Gender	F
Civil Status	Married

Work experience
12 years

Dates	03/2015 to present
Occupation or position held	Associate professor
Main activities and responsibilities	Research and teaching in Department of Applied Mathematics, University of Craiova. Teaching Courses: Mathematical Analysis I, Mathematical Analysis II, Numerical Methods; Seminars: Mathematical Analysis I, Mathematical Analysis II.
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	10/2012 to 02/2015
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	09/2010 to 09/2012
Occupation or position held	Researcher
Main activities and responsibilities	Research in the framework of the CNCSIS Grant PNII-08/2010, 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

Dates	10/2011 to 07/2012
Occupation or position held	Associated assistant lecturer
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	10/2009 to 02/2014; 10/2015 to 02/2016
Occupation or position held	Associated assistant lecturer
Main activities and responsibilities	Research and teaching in Department of 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	10/2005 to 09/2008
Occupation or position held	Ph.D Student
Main activities and responsibilities	Research in Department of 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	09/2006 to 06/2007
Occupation or position held	Teacher
Main activities and responsibilities	Teaching at ─Carol III National College, Craiova.
Name and address of employer	─"Carol I" National College, 2 ─Ion Maiorescull Street, Craiova, Romania
Type of business or sector	Pre-University Education
Dates	09/2003 to 09/2005
Occupation or position held	Teacher
Main activities and responsibilities	Teaching at ─Dimitrie Filisanu Scholar Group, Filiasi.
Name and address of employer	─Dimitrie Filisanull Scholar Group, 176 Racoteanu Bulevard, Filiasi., Romania
Type of business or sector	Pre-University Education

Education and training

Dates	2005-2009
Title of qualification awarded	Ph.D Degree -- Doctor in mathematics
Principal subjects/occupational skills covered	Partial Differential Equations, Functional Analysis; Ph.D thesis: "Topological Methods in the Study of Boundary Value Problems", Scientific Advisor: Prof. Vicențiu Rădulescu (diploma received in Sept. 2009)
Organisation providing education	University of Craiova, Romania
Level in international classification	ISCED 8
Dates	10/2004-06/2006
Title of qualification awarded	Master's Degree, "Dynamical Systems and Problems of Evolution"
Principal subjects/occupational skills covered	Mathematical Analysis; Dissertation: "Variational Methods in the Study of Boundary Value Problems", Scientific Advisor: Prof. Vicențiu Rădulescu (diploma received in January 2007)
Organisation providing education	University of Craiova, Romania
Level in international classification	ISCED 7
Dates	10/1999-06/2003
Title of qualification awarded	Bachelor's Degree in Mathematics
Principal subjects/occupational skills covered	Faculty of Mathematics and Computer Science, Specialization: Mathematics Graduation thesis: "Harnack and Liouville type theorems", Scientific Advisor: Prof. Vicențiu Rădulescu (diploma received in May 2004).
Organisation providing education	University of Craiova, Romania
Level in international classification	ISCED 6

Dates	2005-2013
Courses attended	10 Summer Schools in Mathematics and 4 advanced courses, as follows:

- *"5th Women in Mathematics Summer School on Mathematical Theories towards Environmental Models"*, International Centre for Theoretical Physics, Trieste, Italy, May 27–June 1, 2013.

- *"Topics in Nonlinear Parabolic Equations"*, Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy, June 24–29 2012.

- *"New trends in nonlinear PDEs"*, Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy, June 17–22 2012.

- *"Spring School in Nonlinear Partial Differential Equations"*, Universit´e Libre de Bruxelles, Belgium, May 30 – June 6 2012, with participation at the associated miniworkshop with the communication entitled "Existence and multiplicity results for Neumann problems with variable exponents".

- *"Calculus of Variations and Applications"*, CIRM – Luminy, Marseille, France, July 11–16, 2011.

- *"Three days in PDEs"*, University of Rome Tor Vergata, Italy, April 6–8, 2011.

- *"Harmonic Analysis and Related Topics (HART)"*, University of Milano Bicocca, Italy, February 21–25, 2011.

- The classes *"Elliptic Equations"* given by prof. *S. Terracini* and prof. *G. Verzini* at University of Milano Bicocca, Italy, February 15–April 12, 2011.

- The classes *"Mathematical Modelling in Waterways"* given by prof. *R. Camassa* at University of Milano Bicocca, Italy, February 15–April 13 2011.

- The advanced courses ‖*The restricted three body problem*‖ and ‖*Introduction to KAM theory*‖ held by prof. *R.Ortega*, respectively *J.Fejoz* , at University of Milano Bicocca, Italy, February 7–9, 2011.

- Second Summer School on Analysis *"Spectral Theory and PDEs"*, Leibniz Universitat Hannover, Germany, September 2010, with participation at the poster session with the poster ‖In the love story between two Sobolev spaces, an elliptic problem appears‖.

- Summer Course in Mathematics organized by Scuola Matematica Interuniversitaria at the Palazzone of Cortona on *"Partial Differential Equations"*, Italy, August 2010.

- The courses *"Regularity of Solutions of Second Order Elliptic Equations and Applications to Dirichlet Problem"* (Prof. *L. Veron*) and *"Fine Properties of Functions"* (prof. *P*. Mironescu) held at the summer school organized by IMAR Bucharest, Romania, 2005.

Personal skills and competences

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

Self-assessment / Official certificate	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
French	C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
Italian	C2	Proficient user	C2	Proficient user	B2	Independent user	B2	Independent user	B1	Independent user

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
(*) Common European Framework of Reference for Languages.

Social skills and competences	working well in teams; leadership qualities; communication skills
Driving licence	B category
Organisational skills and competences	attention to details, synthesis capacity, rapid assessment of the situations, taking charge when needed, acknowledging the merits of the others.
Computer skills and competences	good command of Latex, Microsoft Word™, C++.
Main domains of competence	Partial Differential Equations, Functional Analysis.

Additional informations

Memberships

- Romanian Mathematical Society (member since 2012)
- Centre for Nonlinear Analysis and its Applications (member since 2012)
- European Women in Mathematics (member since 2014)
- Center for Research, Education and Promotion of Mathematics in Science, Technology and Society (founding member).

Awards

UEFISCDI (Executive Unit for Financing Higher Education Research Development and Innovation from Romania) award for the papers:

- M.M. Boureanu, V. Rădulescu and D. Repovs, On a p(.)-biharmonicproblem with no-flux boundary condition, *Computers & Mathematics with Applications*, **72** (2016), 2505—2515.

- M.M. Boureanu and C. Udrea, No–flux boundary value problems with anisotropic variable exponents, *Communications on Pure and Applied Analysis*, 14 (2015), 881—896.

- M.M. Boureanu, A. Matei and M. Sofonea, Nonlinear problems with p(.)-growth conditions and applications to antiplane contact models, *Advanced Nonlinear Studies*, **14** (2014), 295—313.

- M.M. Boureanu and D.N. Udrea, Existence and multiplicity results for elliptic problems with p(.) - growth conditions, *Nonlinear Anal. Real World Applications*, **14** (2013) 1829—1844.

- M.M. Boureanu and F. Preda, Infinitely many solutions for elliptic problems with variable exponent and nonlinear boundary conditions, *Nonl. Diff. Eq. and Appl. (NoDEA)*, **19 (**2012), 235–251.

- M.M. Boureanu, A. Matei and M. Sofonea, Analysis of a contact problem for electroelastic-visco-plastic materials, *Communications on Pure and Applied Analysis*, **11** (2012), 1185 – 1203.

- M.M. Boureanu and A. Matei, Weak solutions for antiplane models involving elastic materials with degeneracies, *Zeitschrift fur Angewandte Mathematik und Physik (ZAMP)*, **61** (2010), 73–85.

- M.M. Boureanu, Uniqueness of singular radial solutions for a class of quasilinear problems, *Bull. Belg. Math. Soc. Simon Stevin*, **16** (2009), 665–685.

- M.M. Boureanu and M. Mihăilescu, Existence and multiplicity of solutions for a Neumann problem involving variable exponent growth conditions, *Glasgow Math. J.*, **50** (2008), 565–574.

Grants

Member of the following grants:

- Romanian CNCS-UEFISCDI PN-II-RU-TE-2014-4-0657; Director: Dr. *A. Zărnescu*
- Marie Curie Actions Grant PIRSES-GA-2012 concerning People International Research Staff Exchange Scheme; Local Coordinator from University of Craiova: Dr. *D. Constantinescu*
- Romanian University of Craiova Grant 19C/27.01.2014; Director: Dr. *C. Vladimirescu*
- Romanian CNCS Grant PNII-ID-PCE-2011-3-0195; Director: Dr. *V. Rădulescu*
- Romanian CNCS – UEFISCDI Grant PN-II-RU-TE-2011-3-0223; Director: Dr. *A. Matei*
- Romanian CNCSIS Grant PNII-55/2008; Director: Dr. *V. Rădulescu*
- Romanian CNCSIS Grant PNII-79/2007; Director: Dr. *V. Rădulescu.*

Citations

cited by (without self-citations):
120 documents in Google Scholar; 92 documents in Scopus; 46 documents in ISI Web of Science

Hirsch Index

7 (the i10 index is 6)

Scholarships	• Research Scholarship financed by Centro de Matematica e Aplicacoes (CMA), Faculty of Sciences and Technology, New University of Lisbon, Portugal (September 8 -- October 14, 2015)
	• GNAMPA Junior research visit scholarship for four months (February-May 2011) at the University of Milano Bicocca, Italy.
	• BITDEFENDER postdoctoral scholarship for five months (February-June 2010) at the Institute of Mathematics "Simion Stoilow" of the Romanian Academy (IMAR), Bucharest, Romania.
	• Erasmus-Socrates scholarship for three months (March 2003–May 2003) at the University of Aveiro, Portugal.
	• Merit Scholarships from University of Craiova during the entire period of studies (B.S., M.S. and Ph.D)
Courses (taught)	• Mathematical Analysis I and II, at undergraduate level, at Faculty of Electrical Engineering, University of Craiova;
	• Numerical Methods, at undergraduate level, at Faculty of Automatics, Computer Science and Electronics, University of Craiova.
Certificates	English language certificate; Italian language certificate
Conferences and Workshops attended	20 Conferences and Workshops since 2006, as follows:

- *International Conference on Applied Mathematics and Numerical Methods (ICAMNM)*, organized -- In Memoriam "Romulus Militaru", Craiova, Romania, April 14-16 , 2016 (organizer).
- *Workshop on Dynamical Systems and their Applications*, Craiova, Romania, April 15-16, 2016.
- *Conference on Partial Differential Equations COPDE 2015*, Munich, Germany, March 25-29, 2015, participation with the communication entitled "New Generalized Operators for Elliptic Systems".
- *Nonlinear Dynamics Workshop*, Sinaia, Romania, September 26-27, 2014, participation with the communication entitled "Elliptic problems with variable exponents and no flux boundary conditions".
- *International Workshop on Nonlinear Analysis and Applications to Economics*, Craiova, Romania, September 25, 2014.
- *The 12th French-Romanian Colloquy of Applied Mathematics*, Lyon, France, August 24-30, 2014, participation with the communication entitled "On some applications to antiplane contact models of the variable exponent problems".
- *The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications*, Madrid, Spain, July 07-11 2014, participation with the communication entitled ‖Variable exponent problems involving generalized operators‖, in the special session "Variational methods for discrete and continuous boundary value problems (with applications)".
- *The 8th European Conference on Elliptic and Parabolic Problems*, Gaeta, Italy, May 26-30 2014, participation with the communication entitled "On some elliptic problems with variable exponents".
- *Workshop on Dispersive PDE's: Models and Dynamics*, Pisa, Italy, September 18-20, 2013.
- *8th Workshop on Control of Distributed Parameter Systems*, Craiova, Romania, July 1-5 2013 (local organizer).
- *Eleventh French-Romanian Colloquy of Applied Mathematics*, Bucharest, Romania, August 24-30, 2012, participation with the communication entitled "Connections between Neumann problems with variable exponents".
- *The Seventh Congress of Romanian Mathematicians*, Brasov, Romania, June 29 –July 5, 2011, participation with the communication entitled "On a class of nonlinear stationary problems with Neumann boundary condition".
- *A Day in Nonlinear Analysis ("Una Giornata Nonlineare")*, University of Turin, Italy, February 11, 2011.
- *Exploratory Workshop on Current Research Themes in Applied Mathematics*, Bucharest, Romania, September 2010.
- *Workshop on Asymptotic Analysis and Stochastic Methods for Heterogeneous Media*, Alba-Iulia, Romania, June 2010, participation with the communication entitled "Multiplicity of weak solutions for a degenerate anisotropic elliptic problem with variable exponent".
- *International Conference on Mathematics and IT: Research and Education (MITRE 2008)*, Kisinev, Moldavian Republic, October 2008, participation with the communication entitled "Positive entire large solutions for semilinear elliptic equations".

- *National Session of Student Scientific Communications "Alexandru Myller"*, Iasi, Romania, July 2008, participation with the communication entitled "Existence and uniqueness of solutions for a class of quasilinear elliptic problems".

- *National Session of Student Scientific Communications*, Iasi, Romania, July 2007, participation with the communication entitled "Existence of weak nontrivial solutions for a class of nonhomogeneous boundary value problems".

- *CERCMS International Conference of Young Scientist affiliated to the International Conference "Computer Algebra in Scientific Computing-2006"*, Kisinev, Moldavian Republic, October 2006, participation with the communication entitled "Fraternization in ... Mathematics".

- *National Session of Student Scientific Communications*, Iasi, Romania, July 2006, participation with the communication entitled "Existence of solutions for an elliptic problem involving the $p(x)$ – Laplacean".

Invited talks	

- *"On some nonlinear problems with generalized operators and variable exponents"*, University of Aveiro, Portugal, October 2015 (http://seminargafa.web.ua.pt/pastseminars.html)

- The minicourse *"Variable exponent spaces and applications to nonlinear problems"*, New University of Lisbon, Portugal, September 2015 (http://www.cma.fct.unl.pt/noticias/2015/09/mini-curso-variable-exponent-spaces-and-applications-nonlinear-problems)

- *"Generalized Lebesgue-Sobolev spaces and generalized operators with variable exponent"*, Belarusian State University, Minsk, Belarus, June 2015 (http://km.mmf.bsu.by/events/150629-romania.html)

- *"On some nonlinear problems involving variable exponents"*, University of Nice "Sophia Antipolis", France, January 2013 (http://www-math.unice.fr/ eaubry/seminar.php)

- *"Weak solutions for anisotropic elliptic problems with variable exponent"*, University of Milano Bicocca, Italy, March 2011

- The cycle of talks *"Boundary value problems for the p(x)-Laplace operator"*, Potential Theory Seminar, organized by Institute of Mathematics of the Romanian Academy (IMAR) jointly with the University of Bucharest, Romania, March 2010.

Research visits

- New University of Lisbon, Lisbon, Portugal, September 8 -- October 14, 2015
- Belarusian State University, Minsk, Belarus, June 23 -- July 23, 2015
- University of Nice "Sophia Antipolis", France, January 20–27, 2013
- University of Milano Bicocca, Italy, May 2–11, 2012
- University of Milano Bicocca, Italy, February–May, 2011
- University of Perpignan, France, November 11–21, 2010
- Institute of Mathematics "Simion Stoilow" of the Romanian Academy (IMAR), Bucharest, Romania, February–June 2010.

Editorial Activities

Member of the editorial board of the following:

- Journal of Advances in Mathematical Analysis and Applications
- Monographs in Applied Mathematics, Ed. Universitaria Craiova

Reviewer Mathematical Reviews/MathSciNet Reviewer number: 088090

Referee Acted as a referee for 22 journals:

- Abstract and Applied Analysis
- Advances in Nonlinear Analysis

- Annals of the University of Craiova - Mathematics and Computer Science Series
- Applicable Analysis
- Boundary Value Problems
- Collectanea Mathematica
- Complex Variables and Elliptic Equations
- Electronic Journal of Differential Equations
- FILOMAT (published by Faculty of Science and Mathematics University of Nis Serbia)
- Journal of Function Spaces and Applications
- Journal of Inequalities and Applications
- Journal of Mathematical Analysis and Applications
- Kragujevac Journal of Mathematics
- Mathematica Bohemica
- Mathematical Modelling and Analysis
- Nonlinear Analysis: Real World Applications
- Nonlinear Analysis: Theory, Methods and Applications
- Revista Matemática Complutense
- Rocky Mountain Mathematics Journal
- Science China Mathematics
- Turkic World Mathematical Society Journal of Applied and Engineering
- Ukrainian Mathematical Journal

Publications   26 published papers, as follows:

ISI Journals:

1. M.M. Boureanu, V. Rădulescu and D. Repovs, On a p(.)-biharmonicproblem with no-flux boundary condition, *Computers & Mathematics with Applications*, **72** (2016), 2505—2515.

2. M.M. Boureanu, A new class of nonhomogeneous differential operator and applications to anisotropic systems, *Complex Variables and Elliptic Equations,* **61** (2016), 712--730.

3. M.M. Boureanu and A. Matei, Singular and degenerate boundary value problems related to the electricity theory, *Mathematical Problems in Engineering*, **2015** (2015), Article ID 865261, 6 pages.

4. M.M. Boureanu and C. Udrea, No–flux boundary value problems with anisotropic variable exponents, *Communications on Pure and Applied Analysis*, 14 (2015), 881—896.

5. M.M. Boureanu, A. Matei and M. Sofonea, Nonlinear problems with p(.)-growth conditions and applications to antiplane contact models, *Advanced Nonlinear Studies*, **14** (2014), 295—313.

6. M.M. Boureanu, C. Udrea and D.N. Udrea, Anisotropic problems with variable exponents and constant Dirichlet condition, *Electron. J. Diff. Equ.*, **2013** (2013), no. 220, 1—13.

7. M.M. Boureanu and D.N. Udrea, Existence and multiplicity results for elliptic problems with p(.) - growth conditions, *Nonlinear Anal. Real World Applications*, **14** (2013) 1829—1844.

8. M.M. Boureanu and V. Rădulescu, Anisotropic Neumann problems in Sobolev spaces with variable exponent, *Nonlinear Anal. TMA*, **75** (2012), 4471—4482.

9. M.M. Boureanu and F. Preda, Infinitely many solutions for elliptic problems with variable exponent and nonlinear boundary conditions, *Nonl. Diff. Eq. and Appl. (NoDEA)*, **19 (**2012), 235–251.

10. M.M. Boureanu, A. Matei and M. Sofonea, Analysis of a contact problem for electroelastic-visco-plastic materials, *Communications on Pure and Applied Analysis*, **11** (2012), 1185 – 1203.

11. M.M. Boureanu, Infinitely many solutions for a class of degenerate anisotropic elliptic problems with variable exponent, *Taiwanese Journal of Mathematics*, **15** (2011), 2291–2310.

12. M.M. Boureanu, P. Pucci and V. Radulescu, Multiplicity of solutions for a class of anisotropic elliptic equations with variable exponent, *Complex Variables and Elliptic Equations,* **56** (2011), 755–767.

13. M.M. Boureanu and A. Matei, Weak solutions for antiplane models involving elastic materials with degeneracies, *Zeitschrift fur Angewandte Mathematik und Physik (ZAMP)*, **61** (2010), 73–85.

14. M.M. Boureanu, Uniqueness of singular radial solutions for a class of quasilinear problems, *Bull. Belg. Math. Soc. Simon Stevin*, **16** (2009), 665–685.

15. M.M. Boureanu, On the existence and nonexistence of positive entire large solutions for semilinear elliptic equations, *An. St. Univ. Ovidius Constanta*, **17** (2009), 23–36.

16. M.M. Boureanu and M. Mihăilescu, Existence and multiplicity of solutions for a Neumannproblem involving variable exponent growth conditions, *Glasgow Math. J.*, **50** (2008), 565–574.

17. M.M. Boureanu, Existence of solutions for an elliptic equation involving the $p(x)$-Laplace operator, *Electron. J. Diff. Eqns.*, **2006** (2006), no. 97, 1–10.

ISI Volumes:

1. M.M. Boureanu, B. Noris and S. Terracini, Sub and supersolutions, invariant cones and multiplicity results for p-Laplace equations, *Contemporary Mathematics -- Recent Trends in Nonlinear Partial Differential Equations II: Stationary Problems*, **595** (2013), 91—119.

Book chapters:

1. M.M. Boureanu, On the variable exponent spaces and their applications, chapter in *Qualitative Study of Differential Equations, Geometrical and Dynamical Aspects of Some Mechanical Systems, Numerical Treatment, and Applications* (430 pages), Ed. Universitaria Press Craiova, 2014.

Other papers:

1. M.M. Boureanu, Remarks on Neumann boundary value problems with variable exponents, *Bulletin of the Transilvania University of Brasov -- Series III: Mathematics, Informatics, Physics*, **5(54)** (2012), 55--66.

2. M.M. Boureanu, The Mountain-Pass Theorem and modern applications, *Proc. Intern. Stud. Conf. on Pure and Appl. Math., Ed. Univ. A.I. Cuza, Iasi*, 2011, 29–40.

3. M.M. Boureanu, Critical point methods in degenerate anisotropic problems with variable exponent, *Studia Universitatis Babes-Bolyai*, **LV** (2010), no. 4, 27–39.

4. M.M. Boureanu, Existence of solutions for anisotropic quasilinear elliptic equations with variable exponent, *Advances in Pure and Applied Mathematics*, **1** (2010), 387–411.

5. M.M. Boureanu, Entire large solutions for logistic-type equations, *Annals of the University of Craiova, Math. Comp. Sci. Ser.*, **35** (2008), 32–40.

6. M.M. Boureanu, Existence of weak nontrivial solutions for a class of nonhomogeneous boundary value problems, *Proc. Nat. Session of Stud. Scientific Comm.*, Iasi, 2007, 39–46.

7. M.M. Boureanu, Fraternization in ... Mathematics, *Proc. Intern. Conf. of Young Scientists, affiliated to CASC 2006*, Chisinau, Republica Moldova, 2006, 9–15.

Assoc. Prof. Maria-Magdalena Boureanu