Curriculum vitae Europass

Personal Information

First name(s) / Surname(s)	Aurelia Florea
Professional Address	Department of Applied Mathematics, University of Craiova, Street A.I. Cuza, 13, 200585, Craiova, Dolj, Romania
Phone	Mobile: 0740571849
E-mail	florea.aurelia@ucv.ro aurelia_florea@yahoo.com,
Work experience Dates	19 years 15.09.1997 to present
Nationality	Romanian
Date of Birth	12.03.1973
Sex	Female
Occupation or position held	Lecturer
Main activities and responsibilities	Research and teaching in Department of Applied Mathematics, University of Craiova

Professional Experience	
Period	01/10/2008-prezent
Function or Job	Lecturer PhD

Name and address Employer	University of Craiova, Department of Applied Mathematics (since 2011) Faculty of Letters (since 2000)
Type of business or sector Activities and Main Responsibilities	Research and Higher Education Teaching activities: Mathematical Analysis, Differential Equations, Numerical Methods, Mathematics (PIPP), Methods in Arithmetic, Methods of teaching mathematical activities, Informatics: Internet and web pages, Editing in Specialized Languages, Computerized Wording, Creating a PR product using a computer. Research activity (see the first annex) Project Management activities (see the first annex)
Name and address Employer	University of Craiova, Faculty of Letters
Activities and main responsibilities	Assistant PhD from 2006 until 2008
	Assistant PhD. Student -until 2006 Mathematics (course and seminar), Methods of teaching arithmetic (course and seminar), Methods of teaching mathematical activities (curs şi seminar), Informatics, Internet and web pages, Editing in specialized languages, Computerized Wording (practical course) Teaching activities, mathematics: Research activity (see the first annex) Project Management activities (see the first annex)
Main activities and responsibilities	Teaching activities: Mathematics (course and seminar), Methods of teaching arithmetic (course and seminar), Methods of teaching mathematical activities (curs şi seminar), Informatics, Internet and web pages, Editing in specialized languages, Computerized Wording (practical course) Research activity (see the first annex) Project Management activities (see the first annex)
Name and address of employer Activities and main responsibilities	University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania Research and teaching in Department of Applied Mathematics, University of Craiova
Activity type and field	Superior studies

Education and forming

Period	Ian 2000-21.12 2006
Qualification / obtained diploma	PhD. in Mathematics Series E No. 0001974, No. 24 from 27.03.2007 Thesis title: Analytic inequalities. Scientific Advisor: Professor PhD Constantin P. Niculescu
Main disciplines studied / professional competencies achieved	Analytic and algebraic inequalities, Convexity Theory, Dynamic systems and evolution problems, Variation Calculations, Operators Theory, Numerical Analysis, Convexity Analysis
Level in international classification	ISCED 8
Title of qualification awarded	Master's Degree in Mathematics
Principal subjects/occupational skills covered /Qualification / obtained diploma Period	Dynamic Systems and Equations. University of Craiova Series E No. 0006081 1.10.1997-1998
Level in national or international classification	ISCED 7
Name and type of the educational institution / forming entity	University of Craiova, Faculty of Mathematics and Informatics. Bachelor's Degree in Informatics.
Period	1999-2003
Qualification / obtained diploma	License Diploma, Faculty of Mathematics and Informatics specialization Series U No. 0038882
Name and type of the educational institution / forming entity	University of Craiova, Faculty of Mathematics and Informatics. Bachelor's Degree in Informatics
Level in national or international classification	ISCED 6
Period	1991-1997
Qualification / obtained diploma	License Diploma, Faculty of Mathematics and Informatics
Name and type of the educational institution / forming entity	University of Craiova, Faculty of Mathematics and Informatics. Bachelor's Degree in Mathematics
Level in national or international classification	ISCED 6
Period	1987-1991
Qualification / obtained diploma	
Main Disciplines Studied / professional competencies achieved	High School Diploma in Mathematics, Physics

Name and type of the educational institution / forming entity	"Nicolae Bălcescu" National College, Craiova
Experience in Project Management	
Period	2001, 2002, 2003, 2013, 2014.
Description	Member in the research contracts:

1. *New algebraic and analytic inequalities and their applications.*
   2002 phase: Interference in variation calculations,
   Operators theory, equations in mathematical physics and algebraic geometry,
   in the study of inequalities.
   Contract 33451/2001 theme 35; Grant CNCSIS A3.
   Project Director: Professor PhD. Constantin P. Niculescu.

2. *Dynamic systems and evolutional problems.*
   Contract MEN26044/2001; Grant CNCSIS D4/2001
   (financed by loan from the World Bank)
   Project Director: Professor PhD. Constantin P. Niculescu.

3. *New algebraic and analytic inequalities and their applications.*

   2001 phase: Inequalities applied in the theory of convexity,
   equations in mathematical physics and numerical analysis
   Contract 35254/2001 theme 9; Grant CNCSIS 143/2001.
   Project Director: Professor PhD. Constantin P. Niculescu.

Project Manager Diploma	**Project Manager**

(Graduation certificate)– recognized by the Ministry of Education,
Research and Innovation and the Ministry of Labor, Family Social Services.
Project Manager Certificate Registered
In the National Registry of forming suppliers with the NO. 25/701022011.
Release Date: 22.12.2011 no. 177.

Research scolarship 28.03.2002-31.05.2002

Period	Karlstad University, Sweden
Name and type of the educational institution	Prof. dr. Lars Erik Persson, University of Uppsala, Sweden, and

Prof. Prof. Alexander Bobylev. Sorina Barza.
Specialization in Mathematical Analysis, the exchange of research grant:
Analytic and Algebraic new inequalities and their applications
The 2002 Phase: Interference from the calculus of variations,
the theory of operators.
Contract 33451/2001 35 theme; CNCSIS A3.
Project: Professor PhD. Constantin P. Niculescu.

Period **Name and type of the** **educational institution**	**14-20 Septembrie 2014** Université Catholique de Louvain- Belgium Staff Mobility for Training – ERASMUS+ **14-19 Septembrie 2015-** Belgium Université Catholique de Louvain- Staff Mobility for Training – ERASMUS+ **19-24 Septembrie 2016-** Belgium Université Catholique de Louvain- Staff Mobility for Training – ERASMUS+ **08.08. 2013-11.08. 2013**
Period	2013: Post – graduate course in „Didactics of Mathematics". A POSDRU 2007-2013 funded project, entitled: „Quality, progress and communication in continuous formation sytem for university teachers
Period	**26.11. 2001-02.12.2001**
Name and type of the **educational institution**	University of Bucharest, Forming stage designed for university teachers, lead by specialists from the U.S. and Romania, concerning the modern aspects of teachers preparation, in the *Reform Project for the Pre-University Teaching.*
Name and type of the **educational institution**	**11.02. 2013-17 .02. 2013** University of Bucharest, Forming stage in Sinaia, from the Project co-financed from the European Social Fund through the POSDRU (Operational Sectorial Human Resources Development Program) 2007-2013, Quality, innovation, communication in the continuous forming system for high-education teachers. Contract code: POSDRU/87/1.3/S/63709
Native Language(s)	Romanian Language
Foreign Languages **Self-evaluation** *European Levels (*)* **English**	

Understanding				Speaking				Writing	
Listening		Reading		Conversation		Oral speech		Writing	
B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User

French	B2	Independent User	B2	Independent User	A2	Basic User	A2	Basic User	A2	Basic User

(*) Common European Teachers Level Reference for Foreign Languages.

Competencies and Social abilities	Team Spirit, Communication abilities
Competencies and organizational skills	Managerial aptitudes, competencies in human handling, good team organizing skills, good experience from participating in many specialized international projects.
Competencies and technical aptitudes	The ability to apply Informational Technologies, Microsoft Word™, MatLab, Maple, C++, Scientific WorkPlace, Latex.
Driver's License.	B category driver's license.
Annexes	Annex 1 includes the list of publications, participations in national and international scientific manifestations, being part of scientific societies.

Annex 1

A. ARTICLES AND STUDIES PUBLISHED

"Constructivist Techniques in Mathematics" in the Proceedings of International Conference 2016, Comparability, Identity, Context, University Press, Craiova, 2017, in press.

"Bounds and Estimates on Convex Inequalities", 2017, in press.

"Applications of Artificial Intelligence in Natural Language Processing", in Proceedings of International Conference 2016, Comparability, Identity, Context, University Press, Craiova 2017, in press.

"Convex Ordering Properties and Applications", Journal of Mathematical Inequalities, Zagreb, Croatia, Impact Factor: 0.704 p. 1245–1257, No 4, Vol 9, 2015, (with Eugen Păltănea, D. Bala).

„On a Class of Punctual Convex Functions", Mathematical Inequalities and Applications, Zagreb, Croația, volumul 17 (2014), ISSUE 2. (with Eugen Păltănea), ISSN: 1331-4343 (print), 1848-9966 JCR Impact Factor: 0.588, 2014.

"The number of Gold and its Applications", the volume Representations of Literary, Linguistic and Cultural Identity, CIC 2015 International Conference, University of Craiova, University Press, p. 2015, 348-351.

"New Extensions of Karamata's Inequality", Journal of Romanian Society of Mathematics, SSMR, Seria B, nr. 11, 2014, Anul XIX, p. 489-497, ISSN 1584-9333.

"Some Hermite-Hadamard inequalities for convex functions on the co-ordinates", in General Mathematics Vol. 22, No.1 (2014), 43-47, 2014.

"Online Mathematic Education Versus Traditional Education", in Proceedings of International Comparability, Identity, Context, University Press, Craiova 2014.

"Didactic and Pedagogic processes regarding the usage of active methods in teaching mathematical analysis" in the National Conference Volume for Teaching, Alba Iulia, 05.08.2013-08.08.2013, "1st of December 1918" University, 2013.

„Paradigms in mathematics", in Proceedings of International Conference, Comparability, Identity, Context, University Press, Craiova, 2013, ISBN 978-606-14-0709-5, pp.101-110 (with Eugen Păltănea).

„On a result by Niculescu and Spiridon", Annals of the University of Craiova, Mathematics and Computer Science Series, Volume 39 (1), 2012, Pages 97-99, ISSN: 1223-6934.

„Designing a web site as a strategic tool for research in statistical theory" in Proceedings of International Conference, Comparability, Identity, Context, University Press, Craiova, 2012, ISBN: 978-606-14-0480-3, 379-391.

"Elements of Geometry developed by mathematicians in Ancient Greece" in the volume "Classic antiques and us" edited by the Society for classical studies in Romania, Craiova, page 194-201, University Press, Craiova, ISBN 978-606-14-0189-5, 2011.

"Some extension of optimal Hardy's inequality using estimates of p-Laplacian", *Journal of Computaţional Analysis and Application*, Eudoxus Press, LLC, SUA, ISSN 1521-1398, Volume 12, Number 3, pp. 586-593, 2011 (art. indexed ISI, in collaboration with Ionel Roventa).

"The opportunities offered by the development of information tehnology through virtual communities", în Volumul *Comunicare, Identitate, Context*, Universitaria Publishing, Craiova, 2009, pag., 50-58.

"Short History of the Numbers" in the Annals of the University of Craiova, Series of Philological Sciences, Classical Languages and Literatures page 55-64, University Press, ISSN 1841-1258, Year VI, No. 1-2, Craiova, 2009.

"A Hermite-Hadamard inequality for convex-concave symmetric functions", *Bulletin Mathématique de la Société Mathématiques de Roumanie*, Tome 50 (98) 2007, no. 2, page. 149-156, ISSN 1220-3874.   (art. indexed ISI, Professor PhD. Constantin P. Niculescu).

"A note on Ostrowski`s inequality", *Journal of Inequality and Applications*, Vol. nr. 5, page. 459-468, 2005 (indexed article ISI, Professor PhD. Constantin P. Niculescu).

"On the Ky Fan inequality", In *Research Report Collection of RGMIA*, (http://rgmia.vu.edu.au), vol. 5 (2002), no. 4, pp. 234-244, Melbourne Australia, in collaboration Professor PhD. Constantin P. Niculescu.

"The inequality of Bergström", Mathematics Gazette, Series B, CVII, nr. 11, pp. 434-436, Professor PhD. Constantin P. Niculescu.

"A note on the Ky Fan inequality", Annals of the University of Craiova, *Mathematics-Informatics Series* XXIX (2002), pp. 47-51, with Professor PhD. Constantin P. Niculescu).

"Extensions of the inequality Hermite-Hadamard", Mathematical Creativity Seminary Papers, Baia Mare, vol. 10 (2001), 97-106, in collaboration Professor PhD. Constantin P. Niculescu.

PAPERS IN INTERNATIONAL AND NATIONAL CONFERENCES

- *APP0 - apprentissage par par Problèmes et Projets (Learning through problems and projects), Les QCM – Questions à Choix Multiple. Démarches applicatives.*
  Formation à l'Apprentissage Actif de Louvain, http://www.FA2L.be Université Catholique de Louvain, Belgium, presentation at a seminar in EFR, with Professor dr. Digă Silvia. M., Florea, A., Digă, N., 19-24 Septembrie 2016.

- *Applications of Artificial Intelligence in Natural Language Processing, CIC2016, International Conference, Comparativism, Identitate, Context, University of Craiova, Faculty of Letters, 14-15 oct 2016.*

- *APP0 - apprentissage par par Problèmes et Projets (Learning through problems and projects)* Université Catholique de Louvain, Belgium, presentation at a seminar in EFR specialization training in tutoring for the active teaching, *14-19 Septembrie 2015*.

- *Number of Gold and its applications, CIC 2015, International Conference, Comparativism, Identitate, Context, University of Craiova, Faculty of Letters, 14-16 oct 2015.*

- *Convex ordering properties and applications, Mathematical Inequalities and Applications 2014, One thousand papers conference, Trogir, Croatia, June 22 - 26, 2014.*
  http://2014.mia-journal.com/index.html

- *14-20 Septembrie 2014,* Université Catholique de Louvain, Belgium, *APP0 - apprentissage par par Problèmes et Projets (Learning through problems and projects)* presentation at a seminar in EFR specialization training in tutoring for the active teaching.

- *Generalizations of Fink's Inequality*, The twelfth conference on nonlinear analysis and applied mathematics, Târgoviște, June, 13-14, 2014.

- *Some extensions of Fink's inequality*, The 11th Romanian-German Seminar on Approximation Theory and its Applications, Sibiu 29 May-1 June, 2014, http://conferences.ulbsibiu.ro/roger2014/participations.html.

- *25-26 April 2014) (Inequalities based on the convex ordering of the random variables,* The 17th Conference of the Society for Probability and Statistics in Romania
  http://www.csm.ro/spsr/manifestari.php?id=15

- *Mathematic Education through Thematic Sites, National Conference on Mathematics Education, CNEM 2-3 November, Bucharest, 2013.*
  http://ssmr.ro/activitati/conferinte/conferinta_educatie_comunicari

- *Online Education Versus Traditional Education,* communication at the VIth edition of the International Conference *Comparability, Identity, Communication*, Craiova, October, 18th-19th. 2013. http://cis01.central.ucv.ro/litere/activitate-stiintifica/cic_2013.pdf

- "Didactic and Pedagogic processes regarding the usage of active methods in teaching mathematical analysis" in the National Conference Volume for Teaching, Alba Iulia, 05.08.2013-08.08.2013, "1st of December 1918" University. https://sites.google.com/site/posdrudidactica/home/anunturi

- *Paradigms in mathematics,* communication at the 5th edition of the International Conference Comparability, Identity, Communication, Craiova, October, 18th-19th http://cis01.central.ucv.ro/litere/activitate-stiintifica/cic_2013.pdf

- *Some convex ordering properties,* The 11th Conference on Nonlinear Analysis and Applied Mathematics, Târgovişte, June, 21-22, 2013.

  - *Extensions of Hardy's inequality,* Annual conference of S.S.M.R., Ploiesti, 19-21 October 2012, http://www.ssmprahova.ro/confmath.html

- *About a class of integral inequalities,* International Symposium, Suceava, 2012,

- *A new approach on integral inequations,* sustained communications at the 15th Annual Conference of the Mathematical scientific society in Romania, 29.09-02.10. 2011, Hunedoara, Romania, https://sites.google.com/site/ssmrhd/programul-conferintei

- *On shock models in reliability*, the 15th Conference of the Probability and Statistics Society in Romania (27-28 April 2012) http://www.csm.ro/spsr/program/program_conf15_spsr_2012.pdf

- *Creating a website – strategic instrument for researching the theory of statistics,* communication at the 4th edition of the International Conference Comparability, Identity, Communication, Craiova, 21-22.10.2011, http://cis01.central.ucv.ro/litere/activitate-stiintifica/cic_2011.pdf

- *Creating a student magazine in the online environment,* communication at the 3rd edition of the International Colloquium*, Communication, Identity, Context, Saturday, October 23rd 2010, Craiova, Romania.*

- Classical Inequalities approaches. Methods and techniques. Cavnic, Maramures, 22 may, 2010, www.math.ubbcluj.ro/~didactica/2010-26-Cavnic.doc

- *Audio-Visual Communication and Artificial Intelligence, communication at the 2nd edition of the International Colloquium Communication, Identity, Context,* November 6-7, 2009, Craiova, Romania.

- *The relation between two inequalities*, the 25th National Didactic Conference of Mathematics, Turda, 23 May 2009.

- *The opportunities offered by the development of information tehnology through virtual communities,* in the International Colloquium *Communication, Identity, Context*, November 7-8, 2008, Craiova, Romania.

- *Methods of achieving integral inequalities,* communication at the 12th Annual Conference of the Mathematical Science Society of Romania. Bacău, 17-19 October, 2008.

- *Academician Nicolae Teodorescu Centenary,* communication in the International Colloquium "Reception of the Greek-Latin Antiquity in the European cultures", Craiova 21-22 November, 2008.

- *The Mathematical Universe of the human civilization,* communication in the International Colloquium "Reception of the Greek-Latin Antiquity in the European cultures", Craiova 23-24 November, 2007.

- *Means of Communication – The Internet,* communication in the Scientific Session on the theme "Language, Culture and Civilization" in the Department of Applied Foreign Languages Craiova, 27 February 2007.

- *A Description of Numbers,* communication in the International Colloquium "Reception of the Greek-Latin Antiquity in the European cultures", Craiova 23-24 November, 2007..

- *Methods of Active Learning. A New Approach to Integral Inequalitie,* the 11th Annual Conference of the Mathematical Sciences Society in Romania, Bucharest 26-27 June 2007

- *On weighted Hermite-Hadamard inequality*, the 11th Annual Conference of the Mathematical Sciences Society in Romania, Bucharest 26-27 June 2007

- *A Hermite-Hadamard inequality for convex-concave symmetric functions*, the 6-th Congress of Romanian Mathematicians, June 28-July 4, 2007, Bucharest, Romania.

- Some properties of convex functions, communication in the Didactic Seminary "Seminarier i matematik", Karlstad Universitet, Sweden, 2002

- *Estimation of the Ostrowski Inequality, communication at the 6th National Conference of Mathematical Analysis and Applications,* Cluj-Napoca, 8-9 November 2002.

- *Extensions of the Hermite-Hadamard inequality*, communication at the 18th Colloquium on Topological Ordered Linear Spaces, House of Scientists, Bucharest, 26-28 September 2001.
- *Integral Inequalities,* Communication at *Inequalities 2001*, Timişoara, 9-14 iulie.

C. Published books:

a. Florea Aurelia, *Notions of using the computer. Laboratory Papers*, 216 p. ISBN 973-742-082-9, Craiova, Universitaria Publishing, 2005.

b. Florea Aurelia, *Mathematics in the primary education. Elements of arithmetic and the theory of numbers* 228 p. ISBN 978-973-742-929-2, Craiova, Universitaria Press, 2007.

c. Florea Aurelia, *Methods of solving exercises and problems in primary education*, 252 p. ISBN 978-973-742-934-6, Craiova, Universitaria Press, 2007

d. Dumitru Bala Aurelia Florea Mirela Mazilu, Roxana Marinescu, Quantitative Methods. Applications, ISBN 978-606-11-4521-8, Sitech, Craiova, 2015, 174 p.

e. Aurelia Florea Alina Tenescu, Identity and Discursive Variation, Universitaria Publishing Pro Universitaria, Bucharest, ISBN 978-606-14-0929-7, ISBN 978-606-26-0392-2, 330 p., 2015.

E. Affiliation to scientific and professional societies

1. The Society of Mathematical Sciences in Romania, since 2000.
2. Research Group on Mathematical Inequalities and Applications (Melbourne, Australia), din 2001.
3. American Mathematics Society -AMS.
4. Member in the Organizing Committee for the International

Conference *Communication, Identity, Context,* since 2008.

G. Scholarships and forming stages.

28.03.2002-31.05.2002 – University of Karlstad, Sweden, with prof. Alexander Bobylev and prof. Sorina Barza. Specialized in the field of analytical inequalities with the Grant Scholarship for Research:

New analytical and algebraic inequalities and their applications

Phase on 2002: Interference in variation calculations, Operators theory, equations in mathematical physics and algebraic geometry, contoured in the study of inequalities.

Contract 33451/2001 theme 35; Grant CNCSIS A3.

Project Director: University Professor PhD. Constantin P. Niculescu.

26.11. 2001-02.12.2001, University of Bucharest, Forming stage designed for university teachers, lead by specialists from the U.S. and Romania, concerning the modern aspects of teachers preparation, in the *Reform Project for the Pre-University Teaching.*

Project Manager

(Graduation certificate)– recognized by the Ministry of Education, Research and Innovation and the Ministry of Labor, Family Social Services.

Project Manager Certificate Registered In the National Registry of forming suppliers with the NO. 25/701022011. Release Date: 22.12.2011 no. 177.

11.02. 2013-17 .02. 2013

University of Bucharest, Forming stage in Sinaia, from the Project co-financed from the European Social Fund through the POSDRU (Operational Sectorial Human Resources Development Program) 2007-2013, Quality, innovation, communication in the continuous forming system for high-education teachers. Contract code: POSDRU/87/1.3/S/63709

08.08. 2013-11.08. 2013

"1st of December 1918" University in Alba Iulia, Summer Academy,

Project co-financed from the European Social Fund through the POSDRU (Operational Sectorial Human Resources Development Program) 2007-2013, Quality, innovation, communication in the continuous forming system for high-education teachers. Contract code: POSDRU/87/1.3/S/63709

14-20 Septembrie 2014

Université Catholique de Louvain- Staff Mobility for Training – ERASMUS+

14-19 Septembrie 2015

Université Catholique de Louvain- Staff Mobility for Training – ERASMUS+

19-24 Septembrie 2016

Université Catholique de Louvain- Staff Mobility for Training – ERASMUS+