

# Europass Curriculum vitae



## Personal information

First name(s) / Surname(s)

**Ioana Rodica Chiorean**

Address(es)

Donath 15, bloc M, sc.1, et.2, ap.3, 400301 Cluj Napoca, Romania

Telephone(s)

+40 264 580628, +40 364 409353

E-mail(s)

[ioana@math.ubbcluj.ro](mailto:ioana@math.ubbcluj.ro)

Nationality

Romanian

Gender

Female

## Occupational field / Affiliation

### Work experience

Occupation or position held

Associate Professor at Faculty of Mathematics and Informatics, „Babes-Bolyai” University, Cluj Napoca , Department of Mathematics  
 Lecturer at Faculty of Mathematics and Informatics, „Babes-Bolyai” University, Cluj Napoca , Numerical and Statistical Calculus Chair  
 Assistant at Faculty of Mathematics and Informatics, „Babes-Bolyai” University, Cluj Napoca , Numerical and Statistical Calculus Chair  
 Assistant at Faculty of Mathematics and Informatics, „Babes-Bolyai” University, Cluj Napoca , Informatics Chair  
 Researcher at the ComputingCenter of Babes-Bolyai University, Cluj-Napoca

Main activities and responsibilities

Teaching: courses on **Numerical Analysis** for batchelor students  
 courses on **Financial Mathematics** and **Parallel Computation** for master students  
 Scientific researching- publised papers ISI (7) , BDI indexed (49), others (22); published books (8)  
 Editor at "Journal of Advanced Researches on Applied Mathematics (e-ISSN: 1942-9649)  
 Reviewer at Mathematical Reviews

Name and address of employer

„Babes-Bolyai” University, Cluj Napoca, Romania

### Education

PhD in Mathematics  
 master degree in Informatics

### Training

- 1995-2011, every year, one month of research stage at IWR, Heidelberg, Germany
- 1993-1994, TEMPUS research scholarship at IWR, Ruprecht-Karls University, Heidelberg, Germany
- 1992, TEMPUS research scholarship CMAF, University of Lisbon, Portugal

Principal subjects / occupational skills covered

Numerical Analysis  
 Parallel Calculus  
 Financial Mathematics

Name and type of organisation providing education and training

„Babes-Bolyai” University, Cluj Napoca, Faculty of Mathematics and Informatics  
 IWR, Ruprecht-Karls University, Heidelberg, Germany  
 CMAF, University of Lisbon, Portugal

## Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

English: understanding, speaking, writing: independent user  
 French: understanding:, speaking, writing: independent user  
 Portuguese: understanding, speaking, writing: independent user  
 German: understanding, speaking, writing: independent user

## **Scientific activity:**

Books : 21  
ISI papers: 12  
ISI proceedings: 9  
Others: 80

## **Most recent results:**

**1. Green synthesis, characterization and anti-inflammatory activity of silver nanoparticles using European black elderberry fruits extract,** Luminita David; Bianca Moldovan; Adriana Vulcu; Liliana Olenic; Maria Perde-Schrepler; Eva Fischer-Fodor; Maria Crisan; Ioana Chiorean; Simona Clichici; Gabriela Adriana Filip, *Colloids and Surfaces B: Biointerfaces*, Ms. Ref. No.: COLSUB-D-13-02016R3, 2014, [Volume 122](#), 1 October 2014, Pages 767-777 (Elsevier Ed.)

**2. Statistical Aspects on the Usage of some Dermatological Creams with Metallic Nanoparticles,** Ioana Chiorean, *Studia Univ B B, Mathematica*, vol.59, nr.4, 2014 (NAAT2014)

**3. Nanomaterials based on Gold/Silver Nanoparticles-Kuromarin Chloride and their Applications in Medicine,** Liliana Olenic, Ioana Chiorean , Maria Crisan, Adriana Vulcu, Camelia Grosan, Lucian-Barbu Tudoran, Irina Kacso, Lidia Magerusan, Ioan Bratu ATOM-N2014 Conference, Constanta, 21-24 august 2014 (poster)

**4. Effect of Natural Extracts pH on Morphological Characteristics of Hybrid Materials Based on Gold Nanoparticles,** L.Olenic, A. Vulcu, I. Chiorean, M. Crisan, C. Berghian-Grosan, S. Dreve, L. David, L. B. Tudoran, I. Kacso, I. Bratu, C. Neamtu and C. Voica, *PIM 2013 International Conference Processes in Isotopes and Molecules*, 25 - 27 Septembrie 2013 Cluj-Napoca , [AIP Conference Proceedings](#).

**5. ARFI quantitative elastography of the submandibular glands. Normal measurements and the diagnosis value of the method in radiation submaxillitis.,** Alexandru Florin Badea, Attila Tamas Szora, Elisabeta Ciuleanu, Ioana Chiorean, Grigore Băciuț, Monica Lupșor Platon, Radu Badea, *Medical Ultrasonography Journal* 2013, Vol. 15, no. 3, 173-179

**6. New Nanomaterials for the Improvement of Psoriatic Lesions,** Maria Crisan, Luminita David, Bianca Moldovan, Adriana Vulcu, Simina Dreve, Maria Perde Schrepler,Corina Tatmir, Adriana Gabriela Filip, Pompei Bolfa, Marcela Achim, Ioana Chiorean, Irina Kacso, Camelia Berghian Grosan and Liliana Olenic, *J. Mater. Chem. B*, (2013), DOI: 10.1039/c3tb20476f

**7. The Finite Element method applied to a Problem of Blood Flow in Vessels,** Gabriela Nuț, Ioana Chiorean , Maria Crișan, Hindawi Journal, 2012, *Computational and Mathematical Methods in Medicine* , Volume 2012 (2012), Article ID 204926, 6 pages, doi:10.1155/2012/204926

**8. Medico-Economic Index for Photoinduced Skin Cancers,** Ioana Ciorean, Liana LUPŞA, Luciana NEAMȚIU, Maria CRIȘAN, *Computational and Mathematical methods in medicine*, Hindawi Journal, vol.2012 (factor de impact: 0.814) *Computational and Mathematical Methods in Medicine*, Volume 2012 (2012), Article ID 414683, 3 pages, doi:10.1155/2012/414683

**9. Multicriteria Optimization Model for the Study of the Efficacy of Skin Antiaging Therapy,** Maria Crișan, Guido Cappare, Luciana Neamțiu, Ioana Chiorean, Liana Lupșa, Diana Crișan, and Radu Badea, *Hindawi Journal Computational and Mathematical Methods in Medicine*, Volume 2012 (2012), Article ID 103919, 6 pages, doi:10.1155/2012/103919

**10. Some Special Traveling Salesman Problems with Applications in HealthEconomics,** Liana Lupsa, Ioana Chiorean, Radu Lupsa and Luciana Neamtiu (2010). Some Special Traveling Salesman Problems with Applications in HealthEconomics, *Traveling Salesman Problem, Theory and Applications*, Donald Davendra (Ed.), ISBN: 978-953-307-426-9, InTech

**11. Analiza Numerica,** Ed. Presa Univ.Clujeana (colab. cu T.Catinas si R.Trambitas), 2010

**12. Numerical Methods in Abstract Spaces,** Ed.Presa Universitara Clujeana, 2008

**13. Numerical Analysis. An Advanced Cours,** Ed.Presa Universitara Clujeana, 2007 ( colab. cu Coman si Catinas), ZBL.05201393

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Ioana Chiorean

