

CURRICULUM VITAE ET STUDIORUM

1. PERSONAL DATA

Full name: Dumitru–Cezar ONICIUC
Date and place of birth: October 21, 1972, Iasi, Romania
Citizenship: Romanian
Marital status: married
Number of children: 2
Permanent Institution and Mailing address:
Faculty of Mathematics, "Al.I. Cuza" University of Iasi, Bd. Carol I, no. 11,
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2. EDUCATIONAL BACKGROUND

1. Doctoral Degree: Faculty of Mathematics, "Al.I. Cuza" University of Iasi
Date of Admission: October 1997
Date of Completion: April 13, 2002
Type of Diploma Awarded: PhD.
Thesis title:

Tangency and Harmonicity Properties

Supervisor: Prof.dr. V. Oproiu, "Al.I. Cuza" University of Iasi, Romania.
The thesis received the *Cum Laudae* distinction from the Ministry of Education, Romania, and it was published, in romanian, at *Geometry Balkan Press*, 2003,
<http://www.mathem.pub.ro/dgds/mono/dgdsmono.htm>

2. Master Degree: Faculty of Mathematics, "Al.I. Cuza" University of Iasi
Date of Admission: September 1996
Date of Completion: June 1997
Type of Diploma Awarded: MSc.
3. Bachelor's Degree: Faculty of Mathematics, "Al.I. Cuza" University of Iasi
Date of Admission: July 1991
Date of Completion: June 1996
Type of Diploma Awarded: BSc.

3. PROFESSIONAL EXPERIENCE

October 1, 2007–Present: Associated Professor at the Faculty of Mathematics, "Al.I. Cuza" University of Iasi.
October 1, 2003–September 30, 2007: Lecturer at the Department of Geometry, Faculty of Mathematics, "Al.I. Cuza" University of Iasi.
February 21, 2000–September 30, 2003: Assistant Professor at the Department of Geometry, Faculty of Mathematics, "Al.I. Cuza" University of Iasi.
October 1, 1997–February 20, 2000: Research Assistant at the Department of Geometry, Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

I taught the *Computational Geometry* course to the 2'nd year students, the *Differentiable Manifolds* course to the 3'rd year students, the *Harmonic maps* and *Special topics in Riemannian geometry* courses to the MASTER students, Faculty of Mathematics.

I taught tutorial classes for the following courses: *Linear Algebra and Analytic Geometry*, *Computational Geometry*, *Differentiable Manifolds*, *Complex Manifolds*, *Harmonic Maps*, *Special topics in Riemannian geometry*, Faculty of Mathematics.

4. ACADEMIC DUTIES

1) April 2012–Present: Vice-Dean at the Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

2) November 2011–Present: Member of a scientific evaluation board (*Mathematics and Informatics* section) at the National Council of Scientific Research (CNCS).

5. INTERNATIONAL FELLOWSHIPS AWARDED

1) November 1, 2011–February 18, 2012, University of Cagliari; Italy; Regione Autonoma della Sardegna, Visiting Professor Program.

2) November 7–20, 2010, Texas A&M University-Commerce; Invited Professor.

3) March 10–June 7, 2008, University of Brest, France; Centre National de la Recherche Scientifique (CNRS) fellowship.

4) January 12–31, 2008, University of Cagliari, Italy; INdAM fellowship, Invited Professor.

5) November 5–18, 2007, Tohoku University, Japan; Invited Professor.

6) September 15, 2005–March 15, 2006, University of Cagliari, Italy; NATO fellowship conferred by Consiglio Nazionale delle Ricerche (CNR), Italia.

7) May 15–June 15, 2005, University of Brest, France; Invited Professor.

8) February 2–April 2, 2005, the "Abdus Salam" ICTP, Trieste, Italy; Visiting Fellowship.

9) May 5–9, 2003, the "Abdus Salam" ICTP, Trieste, Italy, "Workshop and Conference on Recent Trends in Nonlinear Variational Problems"; grant conferred by CNRS, France.

10) March 1–May 31, 2003, University of Brest, France; Post–Doctoral fellowship conferred by CNRS, France.

11) October 1, 2000–March 30, 2001, University of Cagliari, Italy; NATO fellowship conferred by CNR, Italia.

12) June 28–July 11, 1998, Cortona, Italy, Summer School on Differential Geometry; fellowship conferred by Scuola Matematica Interuniversitaria.

13) July 28–August 31, 1996, Perugia, Italy, Summer School in Mathematics; fellowship conferred by Scuola Matematica Interuniversitaria.

14) May 3–10, 1995, Sinaia, Romania, Spring School on Differential Geometry; grant conferred by French Embassy in Romania.

6. SOCRATES AND ERASMUS PROGRAMME

1) September 5–12, 2010, University of Cagliari, Italy; LLP-Erasmus Programme.

2) September 5–12, 2009, University of Cagliari, Italy; LLP-Erasmus Programme.

3) May 19–June 2, 2007, University of Brest, France; Socrates-Erasmus Programme.

7. ROMANIAN RESEARCH GRANTS AS DIRECTOR

- 1) *Biharmonic maps and submanifolds in certain geometric context*, Grant PN-II-RU-TE-2011-3-0108; 2011, 2012; 53000+281875 RON
- 2) *F-structuri pe varietati diferentiabile si proprietati de biarmonicitate*, Grant ET, CEEEX, no. 5871; 2006, 2007; 85000 RON
- 3) *Conditia Palais-Smale si tehnici de reducere pentru aplicatiile biarmonice*, Grant At, CNCIS, no. 60 GR; 2006, 2007; 15000+15000 RON
- 4) *Aplicatii biarmonice; stabilitate si schimbari conforme*, Grant At, CNCIS, no. 33373; 2004, 2005; 35000+100000 mii lei
- 5) *Aplicatii biarmonice intre varietati riemanniene*, Grant T, ANSTI, no. 6186 GR; 2000, 2001; 10000+10000 mii lei
- 6) *Sectiuni armonice in fibratul tangent unitar*, Grant T, ANSTI, no. 5146 GR; 1999; 10000 mii lei

8. ROMANIAN RESEARCH GRANTS AS MEMBER

- 1) PCE Grant PNII-2228 (502/2009); 2009, 2010, 2011. Director Prof. Dr. Razvan Litcanu

9. AWARDS

- 1) 2006: Prize for the Research Activity in 2005, awarded by the "Al.I. Cuza" University of Iasi.

10. RESEARCH INTERESTS

- Biharmonic Maps
- Harmonic Maps
- Riemannian Geometry
- Differential Geometry

11. PAPERS PUBLISHED IN REFEREED JOURNALS

- 1) A. Balmuş, C. Oniciuc. Biharmonic submanifolds with parallel mean curvature vector field in spheres. *J. Math. Anal. Appl.* 386 (2012), no. 2, 619-630. (ISI)
- 2) D. Fetcu, C. Oniciuc. A note on integral C-parallel submanifolds in $S^7(c)$. *Rev. Un. Mat. Argentina* 52 (2011), no. 1, 33-45. (ISI)
- 3) A. Balmuş, S. Montaldo, C. Oniciuc. Biharmonic hypersurfaces in 4-dimensional space forms. *Math. Nachr.* 283 (2010), no. 12, 1696-1705. (ISI)
- 4) D. Fetcu, E. Loubeau, S. Montaldo, C. Oniciuc. Biharmonic submanifolds of CP^n . *Math. Z.* 266 (2010), no. 3, 505-531. (ISI)
- 5) A. Balmuş, S. Montaldo, C. Oniciuc. Submanifolds with biharmonic Gauss map. *Internat. J. Math.* 21 (2010), no. 12, 1585-1603. (ISI)
- 6) A. Balmuş, S. Montaldo, C. Oniciuc. Properties of biharmonic submanifolds in spheres. *J. Geom. Symmetry Phys.* 17 (2010), 87-102.
- 7) A. Balmuş, D. Fetcu, C. Oniciuc. Harmonic and biharmonic maps at Iaşi. *An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.)* 56 (2010), 81-96.
- 8) D. Fetcu, C. Oniciuc. Biharmonic hypersurfaces in Sasakian space forms. *Diff. Geom. Appl.* 27 (2009), 713-722. (ISI)

- 9) A. Balmuş, C. Oniciuc. Biharmonic surfaces of S^4 . *Kyushu J. Math.* 63 (2009), 339–345. (ISI)
- 10) D. Fetcu, C. Oniciuc. Explicit formulas for biharmonic submanifolds in Sasakian space forms. *Pacific J. Math.* 240 (2009), 85–107. (ISI)
- 11) A. Balmuş, S. Montaldo, C. Oniciuc. Classification results and new examples of proper biharmonic submanifolds in spheres. *Note di Matematica* 28 (2008), suppl. n. 1, 49–61.
- 12) E. Loubeau, S. Montaldo, C. Oniciuc. The stress-energy tensor for biharmonic maps. *Math. Z.* 259 (2008), 503–524. (ISI)
- 13) A. Balmuş, S. Montaldo, C. Oniciuc. Classification results for biharmonic submanifolds in spheres. *Israel J. Math.* 168 (2008), 201–220. (ISI)
- 14) D. Fetcu, C. Oniciuc. Explicit formulas for biharmonic submanifolds in non-Euclidean 3-spheres. *Abh. Math. Sem. Univ. Hamburg* 77 (2007), 179–190. (ISI)
- 15) E. Loubeau, C. Oniciuc. On the biharmonic and harmonic indices of the Hopf map. *Trans. Amer. Math. Soc.* 359 (2007), 5239–5256. (ISI)
- 16) A. Balmuş, S. Montaldo, C. Oniciuc. Biharmonic maps between warped product manifolds. *J. Geom. Phys.* 57 (2007), 449–466. (ISI)
- 17) R. Caddeo, S. Montaldo, C. Oniciuc, P. Piu. The Euler-Lagrange method for biharmonic curves. *Mediterr. J. Math.* 3 (2006), 449–465. (ISI)
- 18) S. Montaldo, C. Oniciuc. A short survey on biharmonic maps between Riemannian manifolds. *Rev. Un. Mat. Argentina* 47 (2006), no. 2, 1–22.
- 19) A. Balmuş, C. Oniciuc. Some remarks on the biharmonic submanifolds of S^3 and their stability. *An. Stiint. Univ. Al.I. Cuza Iasi. Mat. (N.S.)* 51 (2005), f.1, 171–190.
- 20) E. Loubeau, C. Oniciuc. The index of biharmonic maps in spheres. *Compos. Math.* 141 (2005), 729–745. (ISI)
- 21) A. Balmuş, C. Oniciuc, N. Papaghiuc. Harmonic properties on the tangent bundle. *An. Univ. Vest Timisoara, Ser. Mat.-Inform.* 42 (2004), 17–28.
- 22) R. Caddeo, C. Oniciuc, P. Piu. Explicit formulas for non-geodesic biharmonic curves of the Heisenberg group. *Rend. Sem. Mat. Univ. Politec. Torino* Vol. 62 no. 3 (2004), 265–278.
- 23) C. Oniciuc. New examples of biharmonic maps in spheres. *Colloq. Math.* 97 (2003), no. 1, 131–139.
- 24) C. Oniciuc. Biharmonic maps between Riemannian manifolds. *An. Stiint. Univ. Al.I. Cuza Iasi. Mat. (N.S.)* 48 (2002), no. 2, 237–248.
- 25) C. Oniciuc. On the second variation formula for biharmonic maps to a sphere. *Publ. Math. Debrecen* 61 (2002), no. 3-4, 613–622. (ISI)
- 26) R. Caddeo, S. Montaldo, C. Oniciuc. Biharmonic submanifolds in spheres. *Israel J. Math.* 130 (2002), 109–123. (ISI)
- 27) R. Caddeo, S. Montaldo, C. Oniciuc. Biharmonic submanifolds of S^3 . *Internat. J. Math.* 12 (2001), no. 8, 867–876. (ISI)
- 28) C. Oniciuc. Harmonic sections in the unitary tangent bundle. *Demonstratio Math.* 34 (2001), no. 3, 681–692.
- 29) C. Oniciuc. Pseudo-Riemannian metrics on tangent bundle and harmonic problems. *Bull. Belg. Math. Soc. Simon Stevin* 7 (2000), no. 3, 443–454. (ISI)
- 30) C. Oniciuc. Nonlinear connections on tangent bundle and harmonicity. *Ital. J. Pure Appl. Math.* No. 6 (1999), 109–122.
- 31) C. Oniciuc. On the harmonic sections of tangent bundles. *An. Univ. Bucuresti Mat.* 47 (1998), no. 1, 67–72.

32) C. Oniciuc. The tangent bundles and harmonicity. *An. Stiint. Univ. Al.I. Cuza Iasi. Mat. (N.S.)* 43 (1997), no. 1, 151–172.

The paper 26) received the qualificative "eccellente" (the highest) from CIVR (Comitato Nazionale di Indirizzo per la Valutazione della Ricerca).

12. ACCEPTED PAPERS

1) D. Fetcu, C. Oniciuc. Biharmonic integral \mathcal{C} -parallel submanifolds in 7-dimensional Sasakian space forms. *Tohoku Mathematical Journal*, to appear. (ISI)

2) D. Fetcu, C. Oniciuc, H. Rosenberg. Biharmonic submanifolds with parallel mean curvature in $\mathbb{S}^n \times \mathbb{R}$. *Journal of Geometric Analysis*, to appear. (ISI)

3) A. Balmuş, S. Montaldo, C. Oniciuc. New results toward the classification of biharmonic submanifolds in \mathbb{S}^n . *An. Ştiinţ. Univ. "Ovidius" Constanţa Ser. Mat.*, to appear. (ISI); Proceedings paper

13. PAPERS PUBLISHED IN PROCEEDINGS

1) P. Baird, E. Loubeau, C. Oniciuc. Harmonic and biharmonic maps from surfaces. *Harmonic maps and differential geometry, Contemp. Math., 542, Amer. Math. Soc., Providence, RI*, 2011, 223-230.

2) A. Balmuş, D. Fetcu, C. Oniciuc. Stability properties for biharmonic maps. *Geometry Exploratory Workshop on Differential Geometry and its Applications, 119, Cluj Univ. Press, Cluj-Napoca*, 2011.

3) D. Fetcu, C. Oniciuc. On the geometry of biharmonic submanifolds in Sasakian space forms. *Proceedings of the Tenth International Conference on Geometry, Integrability and Quantization, June 6-11, 2008, Varna*, 171–182.

4) D. Fetcu, C. Oniciuc. Biharmonic submanifolds in Sasakian space forms. *Symposium on the Differential Geometry of Submanifolds, [s.n.], [s.l.], July 3-7, 2007, Valenciennes, France*, 85–88.

5) A. Balmuş, S. Montaldo, C. Oniciuc. Biharmonic submanifolds in space forms. *Symposium on the Differential Geometry of Submanifolds, [s.n.], [s.l.], July 3-7, 2007, Valenciennes, France*, 25–32.

6) R. Caddeo, E. Loubeau, S. Montaldo, C. Oniciuc, P. Piu. Biharmonic maps between Riemannian manifolds. *ICM 2006, Madrid, Abstracts, Posters, Short Communications, Mathematical Software, Other Activities*, 41–42.

7) E. Loubeau, S. Montaldo, C. Oniciuc. The biharmonic stress-energy tensor and the Gauss map. *Proceedings of the Eighth International Conference on Geometry, Integrability and Quantization, June 9-14, 2006, Varna*, 234–245.

8) R. Caddeo, S. Montaldo, C. Oniciuc, P. Piu. The classification of biharmonic curves of Cartan-Vranceanu 3-dimensional spaces. *Modern trends in geometry and topology, Cluj Univ. Press, Cluj-Napoca, 2006*, 121–131.

9) E. Loubeau, C. Oniciuc. The biharmonic index of the Hopf map. *Tensor (N.S.)* 66 (2005), 1–8 (Proceedings of "The VIIth International Conference of the Tensor Society", Timisoara, 2004).

10) C. Oniciuc. Biharmonic maps in spheres and conformal changes. *Recent advances in geometry and topology, Cluj Univ. Press, Cluj-Napoca, 2004*, 279–282.

11) R. Caddeo, S. Montaldo, C. Oniciuc. Biharmonic immersions into spheres. *Differential Geometry, Valencia, 2001, World Sci. Publishing, River Edge, NJ, 2002*, 97–105.

12) C. Oniciuc. The nonlinear connections and harmonicity. *Proceedings of the Third International Workshop on Differential Geometry and its Applications and the First German-Romanian Seminar on Geometry (Sibiu, 1997)*. *Gen. Math.* 5 (1997), 287–296.

The poster 6) has been awarded with the Second Prize of the Posters Competition, section Geometry.

14. CITATIONS

- 1) Sum of Times Cited, in ISI papers, without self-citations: more than 140.
- 2) Sum of Times Cited, in scientific monographs published by international publishing houses, without self-citations: more than 7.

15. TALKS

- 1) June 29–July 5, 2011, Brasov, Romania; "The Seventh Congress of Romanian Mathematicians".
- 2) June 21–26, 2010, Iasi, Romania; "Alexandru Myller Mathematical Seminar Centennial Conference".
- 3) September 7–10, 2009, Cagliari, Italia; "A Harmonic Map Fest: in honour of Prof. John C. Wood on the occasion of his 60th birthday".
- 4) September 2–4, 2009, Iasi, Romania; "The 9th International Workshop on Differential Geometry and its Applications".
- 5) June 6–11, 2009, Varna, Bulgaria; "The 11th International Conference on Geometry, Integrability and Quantization".
- 6) July 3–7, 2007, Valenciennes, France; "Symposium on the differential geometry of submanifolds".
- 7) June 9–14, 2006, Sts. Constantine and Elena (Varna), Bulgaria; "The 8th International Conference on Geometry, Integrability and Quantization".
- 8) August 2004, Timisoara, Romania; "The VIIth International Conference of the Tensor Society".
- 9) September 1–6, 2003, Cluj–Napoca, Romania; "The Sixth International Workshop on Differential Geometry and its Applications".
- 10) September 18–22, 2001, Timisoara, Romania; "The Fifth International Workshop on Differential Geometry and its Applications".

16. CONFERENCES ATTENDED

- 1) September 6–9, 2011, Granada, Spain; "The VI International Meeting on Lorentzian Geometry".
- 2) August 26–30, 2011, Constanta, Romania; "The 10th International Workshop on Differential Geometry and its Applications".
- 3) June 18–29, 2011, IMPA, Rio de Janeiro, Brasil; "Coloquio Brasileiro de Matematica".
- 4) November 12–14, 2010, College Station, USA; "Texas Geometry and Topology Conference".
- 5) May 14–16, 2009, Sibiu, Romania; "Workshop on Moduli Spaces in Geometry and Physics".
- 6) August 22–30, 2006, Madrid, Spain; "International Congress of Mathematicians (ICM)".

7) August 30–September 3, 2004, Prague, Czech Republic; "The 9th International Conference on Differential Geometry and its Applications".

8) August 26–31, 2001, Iasi, Romania; "Conference on Finsler and Lagrange Geometries".

9) July 2000, Bucuresti, Romania; "The Third Balcanic Congress on Differential Geometry and its Applications".

10) September 18–22, 1999, Brasov, Romania; "The Fourth International Workshop on Differential Geometry and its Applications".

11) September 18–23, 1997, Sibiu, Romania; "The Third International Workshop on Differential Geometry and its Applications".

17. BOOKS

1) C. Oniciuc. An introduction in the theory of harmonic maps. (in romanian). *Casa Editoriala DEMIURG, Iasi*, 2007 (ISBN 978-973-7603-81-4)

18. PH.D. STUDENTS

1) Adina Balmuş. Dissertation: Biharmonic Maps and Submanifolds. *Università degli Studi di Cagliari*, 2008, Co-supervisor with Prof. S. Montaldo.

The thesis received the *Ottimo* distinction (the highest) and it was published at *Geometry Balkan Press*, 2009,

<http://www.mathem.pub.ro/dgds/mono/dgdsmono.htm>

19. EDITORIAL DUTIES

1) Member of the Editorial Board of *Analele Stiintifice ale Universitatii "Al.I. Cuza" Iasi, Matematica (N.S.)*.

2) Co-editor of *The biharmonic map bibliography*, a complete bibliography of biharmonic maps

<http://people.unica.it/biharmonic/publication/>

3) Referee for *International Journal of Mathematics*, *Houston Journal of Mathematics*, *International Journal of Mathematics and Mathematical Sciences*, *Analele Stiintifice ale Universitatii "Al.I. Cuza" Iasi, Matematica (N.S.)*.

4) Reviewer for Zentralblatt.

20. FOREIGN LANGUAGES

English and Italian