

CURRICULUM VITAE ET STUDIORUM

1. PERSONAL DATA

Full name: Simona-Elena BARNA (née NISTOR)
Date and place of birth: May 6, 1991, Buhuși, Bacau, Romania.
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2. EDUCATIONAL BACKGROUND

1. Doctoral Degree: Faculty of Mathematics, “Alexandru Ioan Cuza” University of Iași

Date of Admission: October 2014

Thesis title:

“Biharmonic and biconservativity topics in the theory of submanifolds”

Advisor: Prof. C. Oniciuc, “Alexandru Ioan Cuza” University of Iași, Romania.

Doctoral scientific reports:

- July 28, 2017 – “Biharmonic and biconservativity topics in the theory of submanifolds”;
- October 19, 2016 – “Biharmonic maps; stability problems”;
- April 15, 2016 – “Biharmonic and biconservative submanifolds”;
- September 29, 2015 – “Harmonic maps and some chapters of Riemannian geometry”.

Presentation of the PhD Thesis in the Department of Mathematics:

- June 22, 2017 – “Biharmonic and biconservativity topics in the theory of submanifolds”.

Exams:

- July 15, 2015 – “Complex manifolds and harmonic maps”;
- February 27, 2015 – “Chapters of Riemannian Geometry”.

2. Master Degree: Faculty of Mathematics, “Alexandru Ioan Cuza” University of Iași

Date of Admission: October 2012

Date of Completion: July 2014

Type of Diploma Awarded: MSc.

Thesis title: “Suprafețe Willmore” (Willmore surfaces)

Supervisor: Prof. C. Oniciuc

Final grade: 10 (on scale 1(lowest) to 10 (highest))

Overall average grade: 9.80

3. Bachelor's Degree: Faculty of Mathematics, "Alexandru Ioan Cuza" University of Iași

Date of Admission: October 2009

Date of Completion: July 2012

Type of Diploma Awarded: BSc.

Thesis title: "Puncte de extrem pentru funcții și funcționale" (Extreme values of functions and functionals)

Supervisor: Prof. L. Florescu

Final grade: 10 (on scale 1(lowest) to 10 (highest))

Overall average grade: 9.94

3. PROFESSIONAL EXPERIENCE

March 2017–Present: Assistant Research Scientist at the Faculty of Mathematics, "Alexandru Ioan Cuza" University of Iași.

I taught tutorial classes for the following courses: *Differential Geometry of Curves and Surfaces* and *Differentiable Manifolds* at the Faculty of Mathematics; *Information and communications technology* at the Faculty of Philosophy and at the Faculty of Letters.

4. INTERNATIONAL FELLOWSHIPS AWARDED

1) July 27–August 28, 2015, Perugia, Italy, Summer School in Mathematics; fellowship conferred by Scuola Matematica Interuniversitaria. I attended and completed the following courses:

- "*Geometria Differenziale*" (Adriano Tomassini), final grade: A,
- "*Teoria dei Giochi*" (Roberto Lucchetti), final grade: A.

5. ERASMUS PROGRAMME

1) September 30, 2013–February 26, 2014, University of Cagliari, Italy; LLP-Erasmus Programme. I attended and completed with the highest mark all of the five courses.

6. ROMANIAN RESEARCH GRANTS AS MEMBER

1) *Constant mean curvature and biharmonic submanifolds*; Grant: PN-II-RU-TE-2014-4-0004; 2015, 2016, 2017; Director: Prof. Dorel Fetcu.

2) *Variational methods with applications to generalized vector optimization problems*; Grant: PN-II-RU-TE-2014-4-0019; 2015, 2016, 2017; Director: Prof. Marius Durea.

3) *Towards a New Generation of Elite Researchers through Doctoral Scholarships*; Grant: POSDRU/187/1.5/S/155397, July 1–December 31, 2015; Director: Associate Prof. Liviu-George Maha.

4) *Biharmonic maps and submanifolds in certain geometric contexts*; Grant: PN-II-RU-TE-2011-3-0108; 2013, 2014; Director: Prof. Cezar Oniciuc.

7. AWARDS

1) 2011: Silver medal at The Third Team Internet Mathematical Olympiad, organized by Ariel University Center, Israel.

8. RESEARCH INTERESTS

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

9. PAPERS PUBLISHED IN REFEREED JOURNALS

1) S. Nistor. Complete biconservative surfaces in \mathbb{R}^3 and \mathbb{S}^3 . *Journal of Geometry and Physics* 110 (2016), 130–153. (ISI)

2) D. Fetcu, S. Nistor, C. Oniciuc. On biconservative surfaces in 3-dimensional space forms. *Communications in Analysis and Geometry* (5) 24 (2016), 1027–1045. (ISI)

10. ACCEPTED PAPERS

1) S. Nistor, C. Oniciuc. Global properties of biconservative surfaces in \mathbb{R}^3 and \mathbb{S}^3 . *Proceedings of The International Workshop on Theory of Submanifolds, Istanbul Technical University, Turkey 2-4 June 2016*, to appear. Proceedings paper

11. WORK IN PROGRESS

1) S. Nistor, C. Oniciuc. On the uniqueness of complete biconservative surfaces in \mathbb{R}^3 . Work in progress.

2) S. Nistor. On biconservative surfaces. Preprint, arXiv: 1704.04598.

12. TALKS

1) July 6–9, 2017, Iași, Romania; “Sesiunea Națională de Comunicări Științifice Studentești de Matematică (SNCSSM)”; Title of the talk: “Biconservative surfaces in 3-dimensional space forms”; Scientific Committee Member;

2) May 15–18, 2017, Landeda (Brest), France; “Conference on Harmonic Maps”; Title of the talk: “Biconservative surfaces in Riemannian manifolds”;

3) April 6, 2017, Cagliari, Italy; University of Cagliari; Title of the talk: “On biconservative submanifolds”;

4) November 28, 2016, Iași, Romania; “Zilele Universitatii ‘Alexandru Ioan Cuza’ din Iasi”; Title of the talk: “Proprietăți globale ale suprafețelor biconservative” (“Global properties of biconservative surfaces”).

5) December 16, 2015, Iași, Romania; “International PhD Conference from ‘Alexandru Ioan Cuza’ University of Iași”; Title of the talk: “Biconservative surfaces in space forms”.

6) November 6–8, 2015, Iași, Romania; “International Conference on Applied and Pure Mathematics (ICAMP 2015)”; Title of the talk: “Properties of biconservative surfaces”.

7) September 23–26, 2015, Ploiești, Romania; “The 12-th International Workshop on Differential Geometry and its Applications”; Title of the talk: “Some properties of biconservative surfaces”.

13. POSTERS

1) July 11–15, 2016, Brno, Czech Republic; “Differential Geometry and its Applications”; Title of the poster: “Global Properties of Biconservative Surfaces”.

14. CONFERENCES ATTENDED

1) June 26–July 1, 2015, Iași, Romania; “The Eighth Congress of Romanian Mathematicians”.

2) September 8–12, 2015, Bucharest, Romania; “Real and Complex Differential Geometry”.

15. ADMINISTRATIVE DUTIES

1) 2016-Present: Member of the PhD Council, Faculty of Mathematics, “Alexandru Ioan Cuza” University of Iași.

16. FOREIGN LANGUAGES

English and French

17. OTHER SKILLS

C++,C#, Visual C, HTML, PHP, Mathematica.

NISTOR SIMONA-ELENA
