

# CURRICULUM VITAE ET STUDIORUM

## 1. PERSONAL DATA

**Full name:** Simona-Elena NISTOR (married BARNA)

**Date and place of birth:** May 6, 1991, Buhuși, Bacău, România.

**Citizenship:** Romanian

**Permanent Institution and Mailing address:**

Faculty of Mathematics, “A.I. Cuza” University of Iași, Bd. Carol I, no. 11, Iași 700506, România.

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## 2. EDUCATIONAL BACKGROUND

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

*Date of Admission:* October 2014

*Date of Completion:* September 20, 2017

*Type of Diploma Awarded:* PhD.

*Thesis title:*

**“Biharmonic and biconservativity topics in the theory of submanifolds”**

*Advisor:* Prof.Dr. C. Oniciuc, “Alexandru Ioan Cuza” University of Iași, România. The thesis received the *Excellent (Summa Cum Laude)* distinction from the Ministry of National Education and Scientific Research, România.

- June 22, 2017 – *Presentation of the PhD Thesis in the Department of Mathematics.*

*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”.

*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:* “Suprafete Willmore” (Willmore surfaces)

*Supervisor:* Prof.Dr. 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.Dr. 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*, *Affine Geometry*, *Differentiable Manifolds* and *Programming Fundamentals* 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.Dr. 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.Dr. 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: Assoc.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.Dr. 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, On biconservative surfaces, *Differential Geometry and its Applications*, Volume: 54, Pages: 490-502, Part: B, DOI: 10.1016/j.difgeo.2017.08.003, Published: 2017. (ISI)
- (2) S. Nistor, Complete biconservative surfaces in  $\mathbb{R}^3$  and  $\mathbb{S}^3$ , *Journal of Geometry and Physics*, Volume: 110, Pages: 130-153, DOI: 10.1016/j.geomphys.2016.07.013, Published: 2016. (ISI)
- (3) D. Fetcu, S. Nistor, C. Oniciuc, On biconservative surfaces in 3-dimensional space forms, *Communications in Analysis and Geometry*, Volume: 24, Issue: 5, Pages: 1027-1045, DOI: 10.4310/CAG.2016.v24.n5.a5, Published: 2016. (ISI)

## 10. SENT TO PUBLICATION

- (1) S. Nistor, C. Oniciuc, On the uniqueness of complete biconservative surfaces in  $\mathbb{R}^3$ , arXiv:1711.07253.

## 11. PAPERS PUBLISHED IN PROCEEDINGS

- (1) S. Nistor, C. Oniciuc, Global properties of biconservative surfaces in  $\mathbb{R}^3$  and  $\mathbb{S}^3$ , *Proceedings Book of International Workshop on Theory of Submanifolds*, Volume: 1 (2016), June 2–4, 2016, Istanbul, Turkey, DOI: 10.24064/iwts2016.2017.1

## 12. TALKS

- (1) November 2–5, 2017, Iași, România; “International Conference on Applied and Pure Mathematics (ICAPM 2017)”; Title of the talk: “On biconservative surfaces in space forms”.
- (2) October 27, 2017, Iași, România; “Zilele Universității “Alexandru Ioan Cuza” din Iași”; Title of the talk: “Despre suprafețe biconservative în forme spațiale”.
- (3) July 6–9, 2017, Iași, România; “Sesiunea Națională de Comunicări Științifice Studențești de Matematică (SNCSSM)”; Title of the talk: “Biconservative surfaces in 3-dimensional space forms”; Scientific Committee Member;
- (4) May 15–18, 2017, Landeda (Brest), France; “Conference on Harmonic Maps”; Title of the talk: “Biconservative surfaces in Riemannian manifolds”;
- (5) April 6, 2017, Cagliari, Italy; University of Cagliari; Title of the talk: “On biconservative submanifolds”;

- (6) November 28, 2016, Iași, România; “Zilele Universității “Alexandru Ioan Cuza” din Iași”; Title of the talk: “Proprietăți globale ale suprafețelor biconservative”.
- (7) December 16, 2015, Iași, România; “International PhD Conference from “Alexandru Ioan Cuza” University of Iași”; Title of the talk: “Biconservative surfaces in space forms”.
- (8) November 6–8, 2015, Iași, România; “International Conference on Applied and Pure Mathematics (ICAPM 2015)”; Title of the talk: “Properties of biconservative surfaces”.
- (9) September 23–26, 2015, Ploiești, România; “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) September 19, 2017, Iași, România; “Geometry Day - 2017”.
- (2) June 27–July 1, 2016, Iași, România; “Geometric and combinatorial methods in number theory”.
- (3) September 8–12, 2015, Bucharest, România; “Real and Complex Differential Geometry”.
- (4) June 26–July 1, 2015, Iași, România; “The Eighth Congress of Romanian Mathematicians”.

### 15. ADMINISTRATIVE DUTIES

- (1) 2016–2017: Member of the PhD Council, Faculty of Mathematics, “Alexandru Ioan Cuza” University of Iași.

### 16. FOREIGN LANGUAGES

English, French, Italian.

### 17. OTHER SKILLS

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