

# CURRICULUM VITAE ET STUDIORUM

## 1. PERSONAL DATA

**Full name:** Simona-Elena NISTOR (married BARNA)  
**Date and place of birth:** May 6, 1991, Buhusi, Bacau, Romania.  
**Citizenship:** Romanian  
**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 2014

*Thesis title:*

“**Biharmonic problems and applications in the submanifolds theory**”

*Supervisor:* Prof. dr. C. Oniciuc, “Al.I. Cuza” University of Iasi, Romania.

*Doctoral scientific reports:*

- September 29, 2015 – “Harmonic maps and some chapters of Riemannian geometry”;
- April 15, 2016 – “Biharmonic and biconservative submanifolds”;
- October 19, 2016 – “Biharmonic maps; stability problems”.

*Exams:*

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

**2. Master Degree:** Faculty of Mathematics, “Al.I. Cuza” University of Iasi

*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, “Al.I. Cuza” University of Iasi

*Date of Admission:* October 2009

*Date of Completion:* July 2012

*Type of Diploma Awarded:* BSc.

*Thesis title:* “Puncte de extrem pentru functii si functionale” (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. 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.

### 4. 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.

### 5. ROMANIAN RESEARCH GRANTS AS MEMBER

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

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

### 6. AWARDS

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

### 7. RESEARCH INTERESTS

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

### 8. 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)

### 9. ACCEPTED PAPERS

1) D. Fetcu, S. Nistor, C. Oniciuc. On biconservative surfaces in 3-dimensional space forms. *Communications in Analysis and Geometry*, to appear. (ISI)

## 10. WORK IN PROGRESS

- 1) S. Nistor-Barna, C. Oniciuc. Global properties of biconservative surfaces in  $\mathbb{R}^3$  and  $\mathbb{S}^3$ . Submitted
- 2) S. Nistor-Barna. On biconservative surfaces.

## 11. TALKS

- 1) November 28, 2016, Iasi, Romania; “Zilele Universitatii “Alexandru Ioan Cuza” din Iasi”; Title of the talk: “Proprietăți globale ale suprafețelor biconservative” (“Global properties of biconservative surfaces”).
- 2) December 16, 2015, Iasi, Romania; “International PhD Conference from “Alexandru Ioan Cuza” University of Iasi”; Title of the talk: “Biconservative surfaces in space forms”.
- 3) November 6-8, 2015, Iasi, Romania; “International Conference on Applied and Pure Mathematics (ICAMP 2015)”; Title of the talk: “Properties of biconservative surfaces”.
- 4) September 23–26, 2015, Ploiesti, Romania; “The 12-th International Workshop on Differential Geometry and its Applications”; Title of the talk: “Some properties of biconservative surfaces”.

## 12. POSTERS

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

## 13. CONFERENCES ATTENDED

- 1) June 26–July 1, 2015, Iasi, Romania; “The Eighth Congress of Romanian Mathematicians”.
- 2) September 8–12, 2015, Bucharest, Romania; “Real and Complex Differential Geometry”.

## 14. ADMINISTRATIVE DUTIES

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

## 15. FOREIGN LANGUAGES

English and French

## 16. OTHER SKILLS

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