

# Curriculum Vitae

## Irene Ignazia Onnis

### 1 Personal Informations

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**Name and surname:** Irene Ignazia Onnis

**Address:** Dipartimento di Matematica e Informatica, Università degli Studi di Cagliari,  
Via Ospedale, 72 09123, Cagliari, Italy

**E-mail:** irenei.onnis@unica.it

### 2 Academic Positions

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**Associate Professor**, University of Cagliari (UNICA), Italy, since 30-10-2021.

**Vice-director** of the Department of Mathematics and Computer Science of University of Cagliari, since 07/2024.

Lecturer (RTDb), University of Cagliari (UNICA), Italy.

Associate Professor, University of São Paulo (USP), Brazil, since 08-01-2016.

Assistant Professor, University of São Paulo (USP), Brazil, since 31-07-2006.

### 3 Academic Degrees

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**1995-2000** - Bachelor in Mathematics, University of Cagliari, Italy

Thesis: Bolle di sapone, minimalità e dintorni

Supervisor: Prof. Renzo Caddeo

Mark: 110/110 cum lode.

**2001-2005** - PhD in Pure Mathematics, University of Campinas, Brazil

Grant: I.N.d.A.M. (Italy)

Thesis: Superfícies em certos espaços homogêneos tridimensionais

Supervisor: Prof. F. Mercuri

**2005-2006** - Post-doctoral fellow (Fapesp-Brazil), University of Campinas, Brazil

Supervisor: Prof. F. Mercuri

**09/2009-01/2010** - Visiting professor fellow (RAS-Italy), University of Cagliari, Italy.

**09/2016-10/2016** - Visiting professor fellow (RAS-Italy), Università di Cagliari, Italy

## 4 Publications in peer review journals

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1. S. Montaldo, I.I. Onnis, *Invariant CMC surfaces in  $\mathbb{H}^2 \times \mathbb{R}$* . Glasgow Mathematical Journal, v. 46 (2004), 311-321.
2. S. Montaldo, I.I. Onnis, *Invariant surfaces of a three-dimensional manifold with constant Gauss curvature*. Journal of Geometry and Physics, v. 55, n. 4 (2005), 440-449.
3. I.I. Onnis, *Geometria delle superfici in certi spazi omogenei tridimensionali*, Bollettino U.M.I. sez. A, v. 8 (2006), 267-270
4. Y.D. Bozhkov, I.L. Freire, I.I. Onnis, *Group analysis of nonlinear Poisson Equations of the hyperbolic plane*, Anais do 66° Seminário Brasileiro de Análise, (2007).
5. M.H. Noronha, I.I. Onnis, *The life and work of Francesco Mercuri*. Matemática Contemporânea, v. 33 (2007), 01-22.
6. S. Montaldo, I.I. Onnis, *Enneper representation and the Gauss map of minimal surfaces in the product  $\mathbb{H}^2 \times \mathbb{R}$* , Matemática Contemporânea, v. 33 (2007), 199-213.
7. S. Montaldo, I.I. Onnis, *A note on surfaces in  $\mathbb{H}^2 \times \mathbb{R}$* , Bollettino U.M.I. sez. B, v. 10 (2008), 939-950.
8. I.I. Onnis, *Invariant surfaces with constant mean curvature in  $\mathbb{H}^2 \times \mathbb{R}$* , Annali di Matematica pura ed Applicata, v. 187 (2008), 667-682.
9. S. Montaldo, I.I. Onnis, *Biharmonic curves on an invariant surfaces*, J. Geom. Phys. (59) 3 (2009), 391-399.
10. F. Mercuri, I.I. Onnis, *On the Björling problem in a three-dimensional Lie group*, Illinois Journal of Math., (53) (2009), 431-440
11. S. Montaldo, I.I. Onnis, *Geodesics on an invariant surface*, J. Geom. Phys., v. 61 (2011), 1385-1395.
12. S. Montaldo, I.I. Onnis. *Helix surfaces in the Berger sphere*, Israel Journal of Math. v. 201 (2014), 949-966.
13. Adriana A. Cintra, F. Mercuri, I.I. Onnis, *The Björling problem for minimal surfaces in a Lorentzian three-dimensional Lie group*, Ann. Mat. Pura Appl. v. 195 (2016), 95-110.
14. S. Montaldo, I.I. Onnis, A.P. Passamani, *Helix surfaces in the special linear group*, Ann. Mat. Pura Appl. v. 195 (2016), 59-77.

15. I.I. Onnis, A.P. Passamani, *On the biharmonic curves in the special linear group  $SL(2, \mathbb{R})$* , *Mediterr. J. Math.* v. 13 (2016), 443-457.
16. S. Montaldo, I.I. Onnis, A.P. Passamani, *Biconservative surfaces in BCV-spaces*, *Mathematische Nachrichten*, v. 290 (2017), 2661-2672.
17. Adriana A. Cintra, F. Mercuri, I.I. Onnis, *Minimal surfaces in Lorentzian Heisenberg group and Damek-Ricci spaces via the Weierstrass representation*, *J. Geom. Phys.*, v. 121 (2017), 396-412.
18. I.I. Onnis, P. Piu, *Constant angle surfaces in the Lorentzian Heisenberg group*, *Archiv der Mathematik*, v. 109 (2017), 575-589.
19. Adriana A. Cintra, I.I. Onnis, *Enneper representation of minimal surfaces in the three-dimensional Lorentz-Minkowski space*, *Ann. Mat. Pura Appl.*, v. 197 (2018), 21-39.
20. S. Montaldo, I.I. Onnis, A.P. Passamani, *Biharmonic constant mean curvature surfaces in Killing submersion*, *J. Geom. Phys.*, v. 133 (2018), 91-101.
21. I.I. Onnis, A.P. Passamani, P. Piu, *Constant angle surfaces in the Lorentzian Berger sphere*, *J. Geom. Anal.*, v. 29 (2019), 1456-1478.
22. R. Caddeo, I.I. Onnis, P. Piu, *Loxodromes on invariant surfaces in three-manifolds*, *Mediterr. J. Math.* v. 17, (2020).
23. R. Caddeo, I.I. Onnis, P. Piu, *Bour's theorem and helicoidal surfaces with constant mean curvature in the Bianchi-Cartan-Vranceanu spaces*, *Ann. Mat. Pura Appl.*, 201 (2022), 913-932.
24. G. Calvaruso, I.I. Onnis, L. Pellegrino, D. Ucheddu, *Helix surfaces for Berger-like metrics on the anti-de Sitter space*, *Rev. Real Acad. Cienc. Exactas Fis. Nat. Ser. A-Mat.* 118, 54 (2024).
25. I.I. Onnis, Bárbara C. Valério, Jose Antonio M. Vilhena, *A family of higher genus complete minimal surfaces that includes the Costa-Hoffman-Meeks one*, *Ann. Mat. Pura Appl.*, accepted (2025).

## 5 Proceedings

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1. S. Montaldo, I. I. Onnis, *Invariant surfaces in  $\mathbb{H}^2 \times \mathbb{R}$  with constant (Gauss or mean) curvature*, *Publ. de la RSME*, **9** (2005), 91-103.
2. F. Mercuri, S. Montaldo, I.I. Onnis, *Some remarks on invariant surfaces and their extrinsic curvature*, *Contem. Math. (AMS)* v. 542 (2011), 213-221.

## 6 Preprints

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1. Iury Domingos, Irene I. Onnis, Paola Piu. The Bour's Theorem for invariant surfaces in three-manifolds, 2023, ArXiv:2306.03837.
2. Adriana A. Cintra, I.I. Onnis, Liouville's formula and minimal surfaces in the three-dimensional Lorentz-Minkowski space, 2024.

## 7 Citations and h-index

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1. **Scopus**: 152 citations by 94 documents; h-index: 8.
2. **MathSciNet**: 135 citations by 82 publications.

## Referee Activities

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1. Referee for the following journals:
  - Annali di Matematica Pura ed Applicata
  - Journal of Geometric Analysis
  - Mediterranean Journal of Mathematics
  - Journal of Mathematical Analysis and Applications
  - Results in Mathematics
  - Illinois Journal of Mathematics
  - European Journal of Mathematics
  - Differential Equations and Dynamical Systems
  - Journal of Advanced Research in Pure Mathematics
  - Bulletin of the Iranian Mathematical Society
  - An. Stiint. Univ. Al. I. Cuza Iasi
  - Turkish Journal of Mathematics
  - Konuralp Journal of Mathematics
  - Bulletin of the Korean Mathematical Society.

2. Referee for the FAPESP (Fundação de Amparo à Pesquisa do Estado de São Paulo) - “São Paulo Research Foundation”. The FAPESP is an independent public foundation with the mission to foster research and the scientific and technological development of the State of São Paulo.
3. Referee for the CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico) - “National Counsel of Technological and Scientific Development”.
4. Reviewer per Mathematical Reviews.

## 8 Research grants

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1. **02/2001-01/2004** - I.N.d.A.M. doctoral fellow: “Superfícies em certos espaços homogêneos tridimensionais”.
2. **01/04/2006 - 31/07/2006** - Fapesp postdoctoral grant: “Alguns problemas na teoria das subvariedades”, Coordinator: Francesco Mercuri (Unicamp).
3. **01/11/2006-31/10/2008** - Fapesp regular grant for the research project: “Alguns problemas na teoria das subvariedades”, Coordinator: Irene Onnis.
4. **01/11/2006-31/10/2008** - CNPq Universal grant: “Geometria das variedades Riemannianas e suas subvariedades”. Coordinator: Ruy Tojeiro de Figueiredo Jr (UFScar).
5. **04/2009-03/2013** - FAPESP thematic grant: “Topologia algébrica, geométrica e diferencial”. Coordinator: Daciberg Lima Gonçalves (UFScar).
6. **01/09/2009-31/01/2010** - Visiting Professor grant, RAS (Regione Autonoma della Sardegna, Italy).
7. **03/2010-02/2013** - CNPq productivity research fellow: “Alguns problemas na teoria das aplicações bi-harmônicas”, Coordinator: Irene Onnis.
8. **08/11/2013-08/05/2014** - Capes PAEP grant for the Summer School in Mathematics (2014), ICMC, USP, Coordinator: Irene Onnis.
9. **18/12/2013-17/12/2014** - ARC-CNPq grant for the Summer School in Mathematics (2014), ICMC, USP, Coordinator: Irene Onnis.
10. **01/06/2015-31/05/2017** - Fapesp regular grant for the research project: “Superfícies bi-harmônicas de variedades Riemanniana tridimensionais”, Coordinator: Irene Onnis.

11. **05/09/2016-04/10/2016** - Visiting Professor grant, RAS (Regione Autonoma della Sardegna, Italy)
12. **03/2018-02/2021** - CNPq productivity research fellow: “Superfícies bi-harmônicas e de ângulo constante em 3-variedades pseudo-Riemannianas”, Coordinator: Irene Onnis.
13. **02/2019-02/2021** - KASBA “Kaehler manifolds, Sasakian manifolds and Biharmonic maps”, Regione Autonoma della Sardegna, annualità 2017, Coordinator: Andrea Loi (Unica).
14. **11/2019-11/2021** - “STAGE - Statistic, Algebra, Geometry and Economics”, Fondazione di Sardegna, progetti biennali, annualità 2018, Coordinator: Stefano Montaldo (Unica).
15. **0/2021-04/2024** - “GOACT - The Geometry of actions: from categories of modules to homogeneous spaces”, Fondazione di Sardegna, progetti biennali, annualità 2020, Coordinator: Irene Onnis.
16. **01/02/2024 - 31/12/2026** - “Fluxos de curvatura média e tópicos relacionados”, CNPq, Coordinator: Iury Domingos (UFAL).
17. **since 2023** - ”ISI-HOMOS”, Fondazione di Sardegna, progetti biennali, annualità 2022, Coordinator: Roberto Mossa (Unica)
18. **06/2024-05/2029** - “Topologia algébrica, geométrica e diferencial”, FAPESP thematic grant, Coordinator: Daciberg Lima Gonçalves (Università di San Paolo, Brasile)

## 9 Graduate Student Fellowships

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1. **FAPESP**, “Superfícies mínimas do espaço Euclidiano tridimensional  $\mathbb{R}^3$ ”, 01/05/2007-31/12/2007, Student: Gilberto Pereira Sassi.
2. **FAPESP**, “Geometria diferencial de curvas e superficies”, 01/06/2009-05/2010, Student: Murilo Soares Pinheiro.
3. **Ensinar com Pesquisa**, “Estudando as curvas planas com o software MATHEMATICA”, 02/2010-01/2011, Student: Luan de Souza Buzato.
4. **CNPq**, “Métodos para obter uma curva plana a partir de outra curva”, 08/2010-07/2011, Student: Aline de Moraes Teixeira.

5. **FAPESP**, “Introdução à teoria das superfícies mínimas em  $\mathbb{R}^3$ ”, 01/03/2011-02/2012, Student: Guilherme Baggio Ferla.
6. **Ensinar com Pesquisa**, “Estudando as curvas planas com o software MATHEMATICA”, 01/03/2011-29/02/2012, Student: Marcius Leandro Jr.
7. **CNPq**, “Bolhas de sabão e superfícies mínimas”, 08/2011-07/2012, Student: Aline de Moraes Teixeira.
8. **FAPESP**, “Geometria diferencial de curvas e superfícies”, 04/2012-01/2013, Student: Iberê Oliveira Kuntz de Souza.
9. **Programa Ciência Sem Fronteiras-CNPq**, Universidade de Montreal, Student: Guilherme Baggio Ferla.
10. **CNPq**, “Uma introdução à Geometria Diferencial”, 08/2011-07/2012, Student: Milene Alves Garcia.
11. **CNPq**, “Métodos para obtenção de curvas planas a partir de uma “curva base” dada, 08/2014-07/2015, Student: Victória Oliveira dos Anjos.
12. **CNPq**, “Galeria de curvas planas notáveis”, 08/2014-07/2015, Student: Lucas Locatelli Helena.
13. **Fapesp**, “Uma introdução à geometria hiperbólica”, 12/2014-11/2015, Student: Wilian Marcon Bicaio.
14. **CNPq**, “Superfícies nos espaços Euclidianos e uma abordagem geométrica ao estudo das formas diferenciais”, 08/2015-07/2016, Student: Vitor Faleiros Viana.
15. **CNPq**, “Teoria local das curvas espaciais”, 08/2015-07/2016, Student: Lucas Helena Locatelli.
16. **CNPq**, “Uma introdução à análise paracomplexa”, initiated in 08/2016, Student: Vitor Faleiros Viana.

## 10 Post Graduate Student Fellowships

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1. **Master degree Capes**, “Sobre a teoria das transformações de superfícies de curvatura constante”, 03/2007-03/2009, Student: Gabriela Pereira Sander.
2. **Master degree FAPESP**, “Subvariedades bi-harmônicas de variedades homogêneas tridimensionais”, 01/08/2009-28/02/2011, Student: Apoenã Passos Passamani.

3. **PhD Capes**, “Geometria de curvas e subvariedades bi-harmônicas”, 03/2011-06/2015, Student: Apoenã Passos Passamani.
4. **PhD Sanduíche no Exterior (PDSE)-Capes** n. BEX9436/11–1, 03/2012-02/2013, UNICA, Student: Apoenã Passos Passamani.
5. **Master degree Capes**, “Superfícies de ângulo constante em uma variedade homogênea tridimensional”, 03/2013-03/2015, Student: Aline de Moraes Texeira.
6. **Master degree CNPq**, “Representação de Weierstrass em 3-variedades Riemannianas e Lorentzianas”, 08/2015-04/2018, Student: Emanuel Mateus Dos Santos Freire.

## 11 Supervision of students

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### PhD students

1. Student: Apoenã Passos Passamani, “Geometria de curvas e subvariedades bi-harmônicas”, 03/2011-06/2015.
2. Student: Adriana Cintra Araujo, “Superfícies mínimas em variedades Lorentzianas”, 03/2010-06/2014.
3. Student: Lejzer Javier Castro Tapia, “The topology of non-negative curved manifolds, group actions and applications”, Fapesp e Capes grants, from 2024.

### MSc students

1. Student: Paula Olga Gneri (Unicamp), “Superfícies mínimas no espaço de Heisenberg”
2. Student: Gabriela Pereira Sander, “Sobre a teoria das transformações de superfícies de curvatura constante”, 03/2007-03/2009.
3. Student: Apoenã Passos Passamani, “Subvariedades bi-harmônicas de variedades homogêneas tridimensionais”, 01/08/2009-28/02/2011.
4. Student: Aline de Moraes Texeira, “Superfícies de ângulo constante em variedades homogêneas tridimensionais”, 03/2013-03/2015.
5. Student: Emanuel Mateus Dos Santos Freire, “Representação de Weierstrass em 3-variedades Riemannianas e Lorentzianas”, 08/2015-04/2018.
6. Student: Lorenzo Pellegrino, “Helix surfaces in Lorentzian ambient spaces”, Università del Salento, 2022.

## 12 Lectures and Posters presented in Congress

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1. **26-30/04/2004**  
Title: “Superfícies invariantes com curvatura média constante em  $\mathbb{H}^2 \times \mathbb{R}$ ”  
Workshop sobre superfícies de curvatura média constante e EDP, Canela (RS), Brazil.
2. **27-29/10/2004**  
Title: “Superfícies invariantes numa 3-variedade de curvatura média ou Gaussiana constante”  
I Encontro Científico de Alunos de Pós-Graduação, Unicamp (Campinas), Brazil.
3. **13-15/02/2006**  
Title: “O Problema de Björling em grupos de Lie tridimensionais”  
I Encontro Paulista da Geometria Diferencial, Ime, USP, São Paulo, Brazil.
4. **16-20/10/2006**  
Title: “Superfícies de curvatura Gaussiana constante”  
Workshop on Differential Geometry and PDE, Santa Maria (RS), Brazil.
5. **18-20/12/2006**  
Title: “Homenagem ao Professor Francesco Mercuri”  
Workshop em Geometria Diferencial, IMECC-UNICAMP, Campinas, Brazil.
6. **17 /12/2008**  
Title: “Curvas bi-harmônicas em superfícies invariantes”  
Universidade Federal do ABC, Santo André (SP), Brazil.
7. **09-11/02/ 2009**  
Title: “Biharmonic curves on an invariant surface”  
II Encontro Paulista de Geometria Diferencial, UFScar, São Carlos (SP), Brazil.
8. **17/11/2009**  
Title: “Invariant surface with constant gaussian curvature”, Università degli Studi di Cagliari, Italy.
9. **19/11/2009**  
Title: “Biharmonic curves on an invariant surface”, Università degli Studi di Cagliari, Italy.
10. **15/12/2009**  
Title: “Geodesics on an invariant surface”, Università degli Studi di Cagliari, Italy.

**11. 12-16/06/2010**

Poster: “The last singly periodic minimal tori with six Scherk ends”,  
XVI Escola de Geometria Diferencial, Ime (USP), Brazil.

**12. 28/12/2011**

Title: “Invariant surfaces and their extrinsic curvature”,  
Università degli Studi di Cagliari, Italy.

**13. 21/05/2012**

Title: “Superfícies invariantes de curvatura média e/ou Gaussiana constante”  
Colóquio de Matemática, ICMC (USP), Brazil.

**14. 23/07-03/08/2012**

Poster: “Helix surfaces in the Berger sphere”  
EGBI 2012, Encontro de Geometria Brasil-Itália, UFBA, Salvador (Bahia), Brazil.

**15. 21/09/2012**

Title: “Um pouco sobre iniciação científica no ICMC”  
SIM, Simpósio de Matemática para a Graduação, ICMC (USP), Brazil.

**16. 25-29/02/2013**

Title: “Invariant surfaces in a 3-manifold with constant (mean or Gaussian) curvature”  
XLII Summer School MAT-UnB, Brasília, Brazil.

**17. 23/11/2015**

Training Day: effective learning and teaching, Univeristy of São Paulo, Brazil.

**18. 28/09/2016**

Title: “Enneper representation of minimal surfaces in the Lorentz-Minkowski 3-space”  
Università di Cagliari, Italy.

**19. 04/10/2016**

Title: “Helix surfaces in the Berger sphere and in the special linear group”  
Università di Cagliari, Italy.

**20. 21-24/08/2017**

Minicourse: “Superfícies mínimas e afins”, SIM, Simpósio de Matemática para Gra-  
duação, ICMC-USP, Brazil.

**21. 27/02-03/03/2018**

Poster: “Enneper representation of minimal surfaces in the three-dimensional Lorentz-  
Minkowski space”  
XX Escola de Geometria Diferencial, Universidade Federal de João Pessoa (Paraíba),  
Brazil.

**22. 27-28-07/2019**

Poster: “Enneper representation of minimal surfaces in the three-dimensional Lorentz-Minkowski space”,

Encontro Brasileiro de Mulheres Matemáticas, IMPA, Brazil.

**12.1 Participations in events**

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**1. 22-26/07/2002**

XII Escola de Geometria Diferencial, Universidade Federal de Goiás (GO), Brazil.

**2. 26-30/07/2004**

XIII Escola de Geometria Diferencial, IME, USP, São Paulo.

**3. 28/03/2007**

II Workshop de PAE , ICMC-USP, Brazil.

**4. 05-08/11/2008**

16º SIICUSP, USP São Paulo, Brazil (participation as avaliator of the posters).

**5. 08/10/2008**

I Workshop dos Cursos de Graduação do ICMC, ICMC-USP, Brazil.

**6. 21-26/05/2010**

Workshop Pós-Graduação ICMC, ICMC-USP, Brazil.

**7. 01/12/2011**

Workshop de Pós-Graduação em Matemática ICMC, USP, Brazil (participation as avaliator of the talks).

**8. 24/08/2015-04/09/2015**

New interactions of Combinatorics and Probability, CIMPA Research Schools Programme, Università di San Paolo, Brazil.

**9. 30/06/2016**

Workshop of Differential Geometry, University of Cagliari, Italy.

**10. 8-9/09/2016**

Workshop “Complex and Riemannian Geometry days”, UNICA (Cagliari), Italy.

**11. 03-15/06/2018**

VI Workshop on Poisson Geometry and Related Topics, ICMC, Università di São Paulo (Brazil).

**12. 20-21/01/2021**

Minimal surfaces and related topics in honor of Luquésio Jorge, UFC, Fortaleza, Brazil.

**13. 14/10/2021**

Virtual Meeting on Differential Geometry, University of Cagliari, Italy.

**14. 24-28/06/2024**

Complex and Symplectic Geometry Workshop, University of Cagliari, Italy.

**15. 12-13/12/2024**

A Conference on Differential Geometry, University of Parma, Italy.

## **13 Member of Juries**

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### **13.1 PhD thesis**

1. Student: Igor Leite Freire, IMECC-UNICAMP, 28/02/2008.
2. Student: Sinue Dayan Barbero Ludovici, IME-USP, 13/02/2009.
3. Student: Bruno Mendonça Rei dos Santos, UFScar, 27/04/2012.
4. Student: Eliane da Silva dos Santos, Ime-USP, 29/11/2013.
5. Student: Alvaro Julio Yucra Hanco, UFScar, 25/02/2014.
6. Student: Norbil Leodan Cordova Neyra, ICMC-USP, 09/06/2014.
7. Student: Adriana Araujo Cintra, Imecc-Unicamp, 11/06/2014.
8. Student: Apoenã Passos Passamani, ICMC-USP, 23/06/2015.

### **13.2 PhD qualification exam**

1. Student: Igor Leite Freire, IMECC-UNICAMP, 04/09/2006.
2. Student: Lien Kuan Min, IMECC-UNICAMP, 18/05/2009.
3. Student: Adriana Araujo Cintra, Imecc-Unicamp, 12/04/2012.
4. Student: Alvaro Julio Yucra Hanco, UFScar, 24/05/2013.

### 13.3 Master degree dissertation

1. Student: Paula Olga Gneri, IMECC-UNICAMP, 26/02/2007.
2. Student: Bruno Mendonça Rey dos Santo, UFScar, 20/03/2007.
3. Student: Gabriela Pereira Sander, ICMC-USP, 22/05/2009.
4. Student: Apoenã Passos Passamani, ICMC-USP, 14/04/2011.
5. Student: Bruno Rogério Locatelli dos Santos, Universidade Federal do ABC (SP), 03/03/2011.
6. Student: Bruno Henrique Torres, Universidade Federal do ABC (SP), 09/12/2011.
7. Student: Maria Rosilene Barros dos Santos, UFScar , 04/03/2011.
8. Student: Aline de Moraes Texeira, ICMC-USP, 23/03/2015.
9. Student: Marcos Paulo Tassi, UFScar, 30/03/2015.
10. Student: Emanuel Mateus Freire, ICMC-USP, 12/04/2018.
11. Student: Lorenzo Pellegrino, Università del Salento, 2022.
12. Student: Gustavo Panin Ramos, UFES, 24/01/2023.

## 14 Teaching activities

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### 14.1 University of Campinas (Unicamp), Brazil

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#### A.Y. 2003-2004

- Cálculo I, Undergraduate course in Technology in Environmental Sanitation and Technology in Civil Construction

#### A.Y. 2004-2005

- Cálculo I, Undergraduate course in Mathematics

### 14.2 University of São Paulo (USP), Brazil

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**A.Y. 2006/07**

- Desenho Geométrico e Geometria Descritiva, Undergraduate course in Exact Sciences
- Cálculo II, Undergraduate course in Informatic
- Matemática do Ensino Médio I, Undergraduate course in Exact Sciences
- Cálculo III, Undergraduate course in Computer Sciences

**A.Y. 2007/08**

- Cálculo II, Undergraduate course in Physics
- Geometria Superior, **PhD course** (60 hours)
- Cálculo III, Undergraduate course in Mathematics
- Geometria Diferencial, Undergraduate course in Mathematics

**A.Y. 2008/09**

- Desenho Geométrico e Geometria Descritiva, Undergraduate course in Exact Sciences
- Matematica para Arquitetura II, Undergraduate course in Architecture

**A.Y. 2009/10**

- Matemática I, Undergraduate course in Exact Sciences
- Geometria Diferencial, Undergraduate course in Mathematics

**A.Y. 2010/11**

- Geometria de Variedades, **PhD course** (60 hours)
- Matemática I, Undergraduate course in Exact Sciences
- Geometria Diferencial, Undergraduate course in Mathematics

**A.Y. 2011/12**

- Cálculo II, Undergraduate course
- Cálculo III, Undergraduate course in Physics
- Cálculo III, Undergraduate course in Mechatronic Engineering

**A.Y. 2012/13**

- Cálculo II, Undergraduate course in Physics
- Cálculo II, Undergraduate course in Physics
- Cálculo III, Undergraduate course in Biomolecular and Computer Physics
- Cálculo III, Undergraduate course in Computer Engineering

**A.Y. 2013/14**

- Geometria de Variedades, **PhD course** (60 hours)
- Cálculo III, Undergraduate course in Mathematics
- Variedades diferenciáveis, **PhD course** (60 hours)

**A.Y. 2014/15**

- Cálculo IV, Undergraduate course in Materials Engineering
- Cálculo IV, Undergraduate course in Ambient Engineering
- Cálculo III, Undergraduate course in Mathematics
- Cálculo III, Undergraduate course in Mecanic Engineering

**A.Y. 2015/16**

- Cálculo II, Undergraduate course in Physics

**A.Y. 2017/18**

- Complexidade Topológica, **PhD course** (60 hours)
- Cálculo IV, Undergraduate course in Ambient Engineering
- Cálculo IV, Undergraduate course in Civil Engineering
- Cálculo III, Undergraduate course in Mathematics
- Cálculo III, Undergraduate course in Statistics

**A.Y. 2018/19**

- Cálculo II, Undergraduate course in Computer Science
- Cálculo II, Undergraduate course in Computer Science

### **14.3 University of Cagliari (Unica), Italy**

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#### **A.Y. 2019/20 and 2020/21**

- Geometria 2, Undergraduate course in Mathematics (64 hours)

#### **A.Y. 2021/22 and 2022/23**

- Geometria 2, Undergraduate course in Mathematics (64 hours)
- Matematica 3, Undergraduate course in Chemist (48 hours)

#### **A.Y. 2023/24**

- Geometria 2, Undergraduate course in Mathematics (64 hours)

#### **A.Y. 2024/25**

- Geometria 2, Undergraduate course in Mathematics (64 hours)
- Matematica 3, Undergraduate course in Chemist (48 hours)

## **15 Organization of Meetings**

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1. **XXVI Programa de Verão 2009 em Matemática**, ICMC, University of São Paulo (Brazil), 05/01-20/02/2009.
2. **II Encontro Paulista de Geometria Diferencial**, UFScar (Brazil), 09-11/02/2009.
3. **XXVII Programa de Verão 2010 em Matemática**, ICMC, University of São Paulo (Brazil), 04/01-12/02/2010.
4. **XXVIII Programa de Verão 2011 em Matemática**, ICMC, University of São Paulo (Brazil), 03/01-11/02/2011.
5. **Encontro de Geometria Brasil-Itália 2012**, UFBA, Salvador (Brazil), 23/07/2012-03/08/2012.
6. **Escola de Verão de Geometria e Topologia de São Carlos**, UFScar, Brazil, 30/01/2012-03/02/2012.
7. **Escola de Verão em Matemática e I Simpósio Nacional do PICME**, ICMC, University of São Paulo (Brazil), 06/01/2014-21/02/2014.

8. **New interactions of Combinatorics and Probability, CIMPA Research Schools Programme**, ICMC, University of São Paulo (Brazil), 24/08/2015-04/09/2015.
9. **VI Workshop on Poisson Geometry and Related Topics**, ICMC, University of São Paulo (Brazil), 03/06/2018-15/06/2018.
10. **Virtual Meeting on Differential Geometry**, Università degli Studi di Cagliari (Italy), 14/10/2021.

## 16 Other Academic activities

### 16.1 University of Cagliari (Unica), Italy

1. **Vice-director** of the Department of Mathematics and Computer Science of University of Cagliari, since 07/2024.
2. Member of the committee **Commissione Paritetica** della Facoltà di Scienze, a.a. 2021-22 and 2022-23.
3. Member of the committee **Commissione selezioni Tutor della Facoltà di Scienze per i settori MAT e SECS**, from 06/2021 to 08/2023.
4. Member of **Collegio dei Docenti del Dottorato di Ricerca in Matematica e Informatica** dell'Università di Cagliari, since 2019.
5. Member of **Giunta di Dipartimento**, since 09/2024.
6. Member of **Consiglio della Facoltà di Scienze**, since 09/2024.
7. Member of the committee **Commissione Autovalutazione (CAV)**, since 09/2024.
8. Member of the committee **Pratiche Studenti**, Cds in Matematica, since 06/2024.

### 16.2 University of São Paulo (USP), Brazil

1. Member of the Doctoral Collegium **Programa de Pós-graduação em Matemática**, 2006-2019.
2. Member of **Conselho do Departamento de Matemática (Giunta)**, 26/09/2011-10/08/2013.
3. Member of the committee **Comissão Divulgação dos Cursos do Departamento de Matemática**, 13/04/2007-13/04/2009.

4. Member of the committee **Comissão Divulgação dos Cursos de Graduação do ICMC-USP** (referente ao Vestibular 2009), 06/08/2008.
5. Member of the Course Coordinating Committee **CoC-Bacharelado em Ciências de Computação**, since 29/04/2008 (for 3 years).
6. Member of the committee **Comissão PIC SMA** (Programa de Iniciação Científica do Departamento de Matemática), since 27/11/2009 (for 3 years).
7. Member of the Course Coordinating Committee **CoC-Bacharelado em Ciências de Computação**, since 29/04/2011 (for 3 years).
8. Member of the committee **Comissão estudo PPP (plano político Pedagógico) do BCC do ICMC**, 05/2010-08/2010.
9. Member of the committee **Comissão “Prêmio Carlos Teobaldo Gutierrez Vidalon”** de 2011 à melhor Tese de Doutorado em Matemática, Edition: 2011.
10. Member of the committee **Comissão PIC SMA** (Programa de Iniciação Científica do Departamento de Matemática), since 30/11/2012 (for 3 years).
11. **Coordinator** of the **Summer School in Mathematics** of ICMC-USP, edition 2014, 06/01/2014-21/02/2014.
12. Member of the Course Coordinating Committee **CoC-Licenciatura em Matemática**, 06/11/2017-.

## 17 Visiting Professors

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### 17.1 Received at USP, Brazil

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1. 20-22/12/2006, Prof. Stefano Montaldo, Università degli Studi di Cagliari (Italy).
2. 02/2007, Profa. Barbara C. Valério, USP (Brazil).
3. 25/05/2007, Prof. Igor Leite Freire, Unicamp (Brazil).
4. 12-14/12/2007, Profa. Barbara C. Valério, USP (Brazil).
5. 23/10/2007, Prof. Antonio Moro, Loughborough University (England).
6. 28/03/2008, Prof. Igor Leite Freire, Unicamp (Brazil).

7. 27 de Abril de 2010, Prof. M.F. da Silva, Universidade Federal do ABC (Brazil).
8. from 06-01-2014 to 21-02-2014, Prof. José Adonai Pereira Seixas, UFAL (Brazil).
9. 23-24/01/2014, Prof. Francesco Mercuri, Unicamp (Brazil).
10. 28-30/01/2014, Prof. M.F. da Silva, Universidade Federal do ABC (Brazil).
11. 02/2015, Profa. A. Cintra Araujo, Universidade Federal de Goiás (Brazil).
12. 26/02/2018 - 02/03/2018, Prof. Apoenã Passos Passamani, UFES (Brazil).

## **17.2 Received at UNICA, Italy**

1. from 01-03-23 to 31-10-23, Prof. E. Lopes dos Santos (Universidade Federal de São Carlos, UFSCar, Brazil), Project: Topology, Geometry and Applications, Grant: Capes.
2. from 04-04-2023 to 30-04-2023, Prof. Iury Domingos (Katholieke Universiteit Leuven, Belgium), Project: The Bour's Theorem for invariant surfaces in three-manifolds, Grants: Fondazione di Sardegna (FdS), Research Foundation- Flanders (FWO) and the Fonds de la Recherche Scientifique (FNRS)
3. from 06-03-2023 to 04-04-2023, Prof. A. Cintra (Universidade Federal de Goiás, UFG, Brazil), Project: Liouville's formula in the three-dimensional Lorentz-Minkowski space, Grant: Fondazione di Sardegna (FdS).
4. from 02-06-2023 to 04-07-2023, Prof. Iury Domingos (Katholieke Universiteit Leuven, Belgium), Project: Weierstrass-type representation for minimal surfaces in  $\mathbb{S}^2 \times \mathbb{R}$ , Grants: Fondazione di Sardegna (FdS), Research Foundation- Flanders (FWO) and the Fonds de la Recherche Scientifique (FNRS).
5. 18-21/07/2023, Prof. Francesco Mercuri (Unicamp, Brazil), Grant: Fondazione di Sardegna (FdS).
6. from 05-01-2024 to 27-01-2024, Prof. Iury Domingos (Katholieke Universiteit Leuven, Belgium), Project: Ricci surfaces, Grants: Fondazione di Sardegna (FdS), Research Foundation- Flanders (FWO) and the Fonds de la Recherche Scientifique (FNRS).
7. from 09-02-2024 to 09-03-2024, Prof. A. Cintra (Universidade Federal de Goiás, UFG, Brazil), Project: Liouville's formula in the three-dimensional Lorentz-Minkowski space, Grant: Fondazione di Sardegna (FdS).

8. from 28-09-24 to 04-11-24, Prof. E. Lopes dos Santos (Universidade Federal de São Carlos, UFSCar, Brazil), Grant: Visiting Professor/Scientist 2023/2024, Regione Autonoma della Sardegna.

## 18 Prizes

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1. 02/2007  
2° **Prêmio Paulo Freire**, SACEx, IFSC-USP, Brazil.
2. 23/01/2010  
**Paraninfa** do curso de Bacharelado em Informática, USP, Brazil.
3. 23/02/2010  
**Prêmio Horácio Carlos Panepucci** 2009, IFSC-USP, Brazil.
4. 28/01/2011  
**Paraninfa** da XV turma de formandos do curso de Licenciatura em Ciências Exatas, USP, Brazil.
5. 28/02/2012  
**Prêmio Paulo Freire**, Homenagem aos melhores professores do ano 2011, IFSC-USP, Brazil.
6. 26/02/2013  
**Prêmio Horácio Carlos Panepucci**, Homenagem aos melhores professores do ano 2012, IFSC-USP, Brazil.

## 19 Membership

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1. Member of U.M.I. (Unione Matematica Italiana), since 2005.
2. Member of GNSAGA-INdAM, since 2021.
3. Member of SBM (Sociedade Brasileira de Matemática), since 2021.
4. Member of European Women in Mathematics, since 2022.