

# CURRICULUM VITAE - FERNANDO MANFIO

## 1. Personal information

Name: Fernando Manfio  
Birth: February 17, 1978  
Nationality: Brazilian

## 2. Working address

University of São Paulo  
Institute of Mathematics and Computer Science  
Department of Mathematics  
São Carlos, Brazil, 13566-590  
Email: manfio@icmc.usp.br  
Homepage: sites.icmc.usp.br/manfio

## 3. Education

2008 Ph.D. in Mathematics  
University of São Paulo  
Advisor: Paolo Piccione  
Title: *Isometric immersions into homogeneous Lorentzian 3-manifolds*

2003 Mathematics M.S.  
Federal University of São Carlos  
Advisor: Ruy Tojeiro

2000 Mathematics B.S.  
Federal University of Santa Maria

## 4. Employment history

2019 – Associate Professor, ICMC USP  
2009 – 2018 Assistant Professor, ICMC USP  
2002 – 2003 Assistant Professor, UFSCar

## 5. Visiting Positions

2019 Université Paris-Est Marne-la-Vallée, Marne-la-Vallée, France (1 month)  
2018 Universidad de Granada, Granada, Spain (1 month)  
2017 IMPA, Rio de Janeiro, Brazil (1 month)  
2014 – 2016 Institut Élie Cartan, Nancy, France (2 years)  
2014 University of Brasília, Brasília, Brazil (1 month)  
2013 Federal University of Alagoas, Maceió, Brazil (1 month)  
2009 Federal University of São Carlos, São Carlos, Brazil (3 months)

## 6. Research interests

Mathematics

Differential Geometry

Submanifold Theory

## 7. Editorial boards

Revista Matemática Universitária – Brazilian Mathematical Society

## 8. Scientific Committees

2022 São Carlos Conference in Geometry, São Carlos, Brazil

2019 Workshop on Submanifold Theory and Geometric Analysis, São Carlos, Brazil

2018 Young Researchers Summer Program, São Carlos, Brazil

2018 VI Workshop on Poisson Geometry and Related Topics, São Carlos, Brazil

## 9. Publications

1. R. F. de Lima, F. Manfio, J. P. dos Santos, *Einstein hypersurfaces of warped product spaces*. Results Math. **77** (2022), no. 6, Paper No. 228.
2. R. F. de Lima, F. Manfio, J. P. dos Santos, *Hypersurfaces of constant higher order mean curvature in  $M \times \mathbb{R}$* , Ann. Mat. Pura Appl. (4) **201** (2022), no. 6, 2979–3028.
3. F. Manfio, J. Roth, A. Upadhyay, *Extrinsic eigenvalues upper bounds for submanifolds in weighted manifolds*. Ann. Global Anal. Geom. **62** (2022), no. 3, 489–505.
4. S. Canevari, G. M. Freitas, F. Guimarães, F. Manfio, J. P. dos Santos, *Complete submanifolds with relative nullity in space forms*. Ann. Global Anal. Geom. **59** (2021), no. 1, 81–92.
5. A. C. Bezerra, F. Manfio, *Rigidity and stability estimates for minimal submanifolds in the hyperbolic space*. J. Math. Anal. Appl. **495** (2021), no. 2, 124759, 10 pp.
6. F. Manfio, R. Tojeiro, J. Van der Veken, *Geometry of submanifolds with respect to ambient vector fields*. Ann. Mat. Pura Appl. (4) **199** (2020), no. 6, 2197–2225.
7. F. Manfio, J. P. dos Santos, *Helicoidal flat surfaces in the 3-sphere*, Math. Nachr. **292** (2019), no. 1, 127–136.
8. F. Manfio, N. Turgay, A. Upadhyay, *Biconservative submanifolds in  $\mathbb{S}^n \times \mathbb{R}$  and  $\mathbb{H}^n \times \mathbb{R}$* , J. Geom. Anal. **29** (2019), no. 1, 283–298.
9. M. Cavalcante, F. Manfio, *On the fundamental tone of immersions and submersions*, Proc. Amer. Math. Soc. **146** (2018), no. 7, 2963–2971.
10. S. Canevari, G. M. de Freitas, F. Manfio, *Submanifolds with nonpositive extrinsic curvature*, Ann. Mat. Pura Appl. **196** (2017), 407–426.
11. F. Manfio, F. Vitória, *Minimal immersions of Riemannian manifolds in products of space forms*, J. Math. Anal. Appl. **424** (2015), 260–268.
12. F. Manfio, R. Tojeiro, *Hypersurfaces with constant sectional curvature of  $\mathbb{S}^n \times \mathbb{R}$  and  $\mathbb{H}^n \times \mathbb{R}$* , Illinois J. Math. **55** (2012), no. 1, 397–415.

13. S. Lodovici, F. Manfio, *Isometric immersions into a homogeneous Lorentzian Heisenberg group and rigidity*, Math. Proc. Cambridge Philos. Soc. **147** (2009), 185–204.

## 10. Preprints

1. A. C. Bezerra, F. Manfio, *Umbilicity of constant mean curvature hypersurfaces into space forms*. Available in arXiv:2211.02238.

## 11. Current Ph.D. Students

Raquel Silva Lemos, Brazil

Verônica Santana Reis, Brazil

Milagros Anculli Llamoca, Peru

## 10. Supervised Ph.D. Dissertations

2023 Estela Garcia, Brazil

2018 Cleidinaldo Souza, Brazil.