

CURRICULUM VITAE - FERNANDO MANFIO

Personal information

Name: Fernando Manfio
Birth: February 17, 1978
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Working address

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Education

2003 - 2008 Ph.D. in Mathematics
University of São Paulo
Advisor: Paolo Piccione

2000 - 2003 Mathematics M.S.
Federal University of São Carlos

1996 - 2000 Mathematics B.S.
Federal University of Santa Maria

Employment history

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

Research interests

Mathematics

Differential Geometry

Submanifold Theory

Editorial boards

Revista Matemática Universitária – RMU SBM

Preprints

1. A. C. Bezerra, T. Castro Silva, F. Manfio, *A stability condition on weighted manifolds*. Available in arXiv:2412.09396.
2. F. Guimarães, F. Manfio, C. E. Olmos, *Complete cohomogeneity one hypersurfaces of $\mathbb{H}^{n+1}$* . Available in arXiv:2408.03802.

Publications

1. E. Garcia, F. Manfio, *Einstein submanifolds with parallel mean curvature vector field into $\mathbb{S}^n \times \mathbb{R}$* . J. Geom. **116** (2025), no. 2, Paper No. 15, 16 pp.
2. F. Manfio, J. B. M. dos Santos, J. P. dos Santos, J. Van der Veken, *Hypersurfaces of $\mathbb{S}^3 \times \mathbb{R}$ and $\mathbb{H}^3 \times \mathbb{R}$ with constant principal curvatures*. J. Geom. Phys. **213** (2025), Paper No. 105495, 9 pp.
3. A. C. Bezerra, F. Manfio, *Umbilicity of constant mean curvature hypersurfaces into space forms*. J. Math. Anal. Appl. **537** (2024), no. 2, Paper No. 128316, 13 pp.
4. 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.
5. 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, 26 pp.
6. 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.
7. 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.
8. 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.
9. 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.
10. F. Manfio, J. P. dos Santos, *Helicoidal flat surfaces in the 3-sphere*, Math. Nachr. **292** (2019), no. 1, 127–136.
11. 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.
12. M. Cavalcante, F. Manfio, *On the fundamental tone of immersions and submersions*, Proc. Amer. Math. Soc. **146** (2018), no. 7, 2963–2971.
13. S. Canevari, G. M. de Freitas, F. Manfio, *Submanifolds with nonpositive extrinsic curvature*, Ann. Mat. Pura Appl. **196** (2017), 407–426.
14. F. Manfio, F. Vitória, *Minimal immersions of Riemannian manifolds in products of space forms*, J. Math. Anal. Appl. **424** (2015), 260–268.
15. 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.
16. S. Lodovici, F. Manfio, *Isometric immersions into a homogeneous Lorentzian Heisenberg group and rigidity*, Math. Proc. Cambridge Philos. Soc. **147** (2009), 185–204.

Current Ph.D. Students

João Victor Rodrigues da Silva, Brazil

Junior Rodrigues Moyses, Brazil

Raquel Silva Lemos, Brazil

Supervised Ph.D. Dissertations

2024 – Milagros Anculli Llamoca, Peru

2023 – Verônica Santana Reis, Brazil

2023 – Estela Garcia, Brazil

2018 – Cleidinaldo Souza, Brazil