

RONALDO FREIRE DE LIMA

PERSONAL INFORMATION

Born in São Paulo-SP, Brazil, 01 November 1964

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phone + 5 5 (84) 9 88741964

Erdos number My Erdos number is 4

WORK EXPERIENCE

1993–Present Associate Professor (currently)

*Federal University
of Rio Grande do
Norte*

EDUCATION

1996–2000 IMPA-Institute for Pure and Applied
Mathematics, Brazil and Université Paris 7, France

*Phd in
Mathematics* Thesis: *Hypersurfaces with Constant Mean Curvature and Bounded Scalar Curvature
in Euclidean and Hyperbolic Spaces*
Advisor: Harold Rosenberg

1989–1993 Federal University of Goiás, Brazil

*Master in
Mathematics* Dissertation: *Seifert Fiber Spaces* (in Portuguese)
Advisor: Genésio L. dos Reis

1982–1985 Federal University of Rio Grande do Norte, Brazil

*Baccalaureate in
Mathematics*

OTHER ACADEMIC ACTIVITIES

2001–2003 University of Massachussets, USA

Post-Doc Work with William Meeks at GANG laboratory at UMASS

PREPRINTS IN ARXIV

2023 Solitons to Mean Curvatura Flow in the
Hyperbolic 3-space

Preprint Available at <https://arxiv.org/abs/2307.14136>
Authors: Ronaldo F. DE LIMA, Álvaro RAMOS and João P. dos SANTOS

2023 On Stable Constant Mean Curvature Spheres of
 $\mathbb{H}^n \times \mathbb{R}$ and $S^n \times \mathbb{R}$ and their Uniqueness as Isoperimetric
Hypersurfaces

Preprint Available at <https://arxiv.org/abs/2301.11038>
Authors: Ronaldo F. DE LIMA, Maria F. ELBERT and Barbara NELLI

2022 Translators to Higher Order Mean Curvature
Flows in $\mathbb{H}^n \times \mathbb{R}$ and $\mathbb{R}^n \times \mathbb{R}$.

Preprint

Available at <https://arxiv.org/abs/2211.03918>
 Authors: Ronaldo Freire DE LIMA and Giuseppe PIPOLI

PUBLISHED ARTICLES

- 2023 Weingarten Flows in Riemannian Manifolds
 DOI: 10.1215/00192082-10817329
 Author: Ronaldo Freire DE LIMA
Illinois Journal of Mathematics
- 2023 Elliptic Weingarten Hypersurfaces of Riemannian Products
 DOI: 10.1002/mana.202200025
 Authors: Ronaldo F. DE LIMA, Álvaro K. RAMOS and João P. DOS SANTOS
Mathematische Nachrichten
- 2023 Translating Solitons to Flows by Powers of the Gaussian Curvature in Riemannian Products
 DOI: 10.1007/s00013-023-01845-2
 Author: Ronaldo F. DE LIMA
Archiv der Mathematik
- 2022 Einstein Hypersurfaces of Warped Product Spaces
 DOI: 10.1007/s00025-022-01758-6
 Authors: Ronaldo F. DE LIMA, Fernando MANFIO and João P. DOS SANTOS
Results in Mathematics
- 2022 A survey on Convex Hypersurfaces of Riemannian Manifolds
 DOI: 10.21711/231766362022/rmc508
 Author: Ronaldo F. DE LIMA
Matemática Contemporânea
- 2022 O Teorema Espectral e suas Misteriosas Relações com o Teorema da Decomposição Primária
 DOI: 10.21711/26755254/rmu20227
 Author: Ronaldo F. DE LIMA
Revista Matemática Universitária
- 2022 Hypersurfaces of Constant Higher Order Mean Curvature in $M \times \mathbb{R}$
 DOI: 10.1007/s10231-022-01229-3
 Authors: Ronaldo F. DE LIMA, Fernando MANFIO and João P. DOS SANTOS
Annali di Matematica Pura ed Applicata
- 2021 Totally umbilical hypersurfaces of product spaces
 DOI: 10.1007/s00229-021-01339-x
 Authors: Ronaldo F. DE LIMA and João P. DOS SANTOS
Manuscripta Mathematica
- 2021 Helicoids and Catenoids in $M \times \mathbb{R}$.
 Volume 200, pages 2385–2421
 Authors: Ronaldo Freire DE LIMA and Pedro ROITMAN
Annali di Matematica Pura ed Applicata

2021 Embeddedness, Convexity, and Rigidity of
Hypersurfaces in Product Spaces

*Annals of Global
Analysis and
Geometry*

Volume 59, pages 319–344
Author: Ronaldo Freire DE LIMA

2019 Convexity, Rigidity, and Reduction of
Codimension of Isometric Immersions into Space Forms

*Bulletin of the
Brazilian
Mathematical
Society*

Volume 50, pages 119–136
Authors: Ronaldo Freire DE LIMA and Rubens L. DE ANDRADE

2019 The n -dimensional Peano Curve

*São Paulo Journal
of Mathematical
Sciences*

Volume 13, pages 678–688
Authors: Joaquim E. DE FREITAS, Ronaldo F. DE LIMA, and Daniel T. dos SANTOS

2016 Geometrical and Analytical Properties of
Chebyshev Sets in Riemannian Manifolds

*Proceedings of the
American
Mathematical
Society*

Volume 144, Number 4, Pages 1697—1710
Author: Ronaldo Freire DE LIMA

2004 Maximum Principles at Infinity for Surfaces of
Bounded Mean Curvature in \mathbb{R}^3 and \mathbb{H}^3

*Indiana University
Mathematics
Journal*

Vol. 53, No. 5, Pages 1211–1223
Authors: Ronaldo Freire DE LIMA and William MEEKS, III

2003 On Surfaces with Constant Mean Curvature in
Hyperbolic Space

*Illinois Journal of
Mathematics*

Volume 47, Number 4, Pages 1079–1098
Author: Ronaldo Freire DE LIMA

2001 A Maximum Principle at Infinity for Surfaces
with Constant Mean Curvature in Euclidean Space

*Annals of Global
Analysis and
Geometry*

Volume 20, Pages 325–343
Author: Ronaldo Freire DE LIMA

PUBLISHED BOOKS

2016 Introdução à Geometria Diferencial

*Brazilian
Mathematical
Society*

Published on line (in Portuguese). Available at <https://www.sbm.org.br>
Author: Ronaldo Freire DE LIMA

2015 Topologia e Análise no Espaço \mathbb{R}^n

*Brazilian
Mathematical
Society*

In Portuguese
Author: Ronaldo Freire DE LIMA

2006 Pré-Cálculo

*Secretaria de
Educação a
Distância*

In Portuguese

Authors: Rubens Leão de ANDRADE and Ronaldo Freire DE LIMA

OTHER INFORMATION

Conferences Presentations

- 2023 · Brazil-China Joint Mathematical Meeting, JL Hotel by Bourbon – Foz do Iguaçu-PR, Brazil.
- 2023 · XIV Workshop on Geometric Analysis – UFC, Brazil.
- 2023 · IV Encontro de Geometria Diferencial do RS – UFRGS, Brazil.
- 2023 · Recife Workshop in Differential Geometry, UFPE, Recife-PE, Brazil
- 2022 · V Colóquio de Matemática da Região Nordeste, UFPB, João Pessoa-PB, Brazil
- 2022 · São Carlos Conference in Geometry, ICMC-USP, São Carlos-SP, Brazil
- 2021 · Workshop de Geometria Diferencial, UFPA, Belém-PA, Brazil
- 2021 · IX WENLU - Workshop in Nonlinear PDE's, Functional and Geometric Analysis, UFPB, João Pessoa-PB, Brazil
- 2020 · XII Summer Workshop in Mathematics, UnB, Brasília-DF, Brazil
- 2019 · Workshop on Submanifold Theory and Geometric Analysis, UFSCar, São Carlos-SP, Brazil
- 2019 · II Encontro em Geometria Diferencial no Rio Grande do Sul, UFRGS, Porto Alegre-RS, Brazil
- 2018 · International Congress of Mathematicians, Centro de Convenções, Rio de Janeiro-RJ, Brazil
- 2018 · XX Brazilian School of Geometry, Cabo Branco Estação de Ciências, João Pessoa - PB, Brazil
- 2016 · XIX Brazilian School of Geometry, IMPA, Rio de Janeiro-RJ, Brazil

Languages

- PORTUGUESE Mother tongue
- ENGLISH · fluent
- FRENCH · fluent
- SPANISH · fluent

Interests

- Arts · Music · Jazz · Literature

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