

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 Full 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 ON ARXIV

2025 Isoparametric Hypersurfaces of $\mathbb{H}^n \times \mathbb{R}$ and
 $\mathbb{S}^n \times \mathbb{R}$

Preprint

Available at <https://arxiv.org/abs/2411.11506>
Authors: Ronaldo Freire DE LIMA and Giuseppe PIPOLI

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

PUBLISHED ARTICLES

- 2025 Translators to Higher Order Mean Curvature
Flows in $\mathbb{H}^n \times \mathbb{R}$ and $\mathbb{R}^n \times \mathbb{R}$
Journal of Geometric Analysis
DOI: 10.1007/s12220-025-01925-5
Authors: Ronaldo Freire DE LIMA and Giuseppe PIPOLI
- 2025 On Stability and Isoperimetry of Constant Mean
Curvature Spheres of $\mathbb{H}^n \times \mathbb{R}$ and $\mathbb{S}^n \times \mathbb{R}$
Mathematische Zeitschrift
DOI: 10.1007/s00209-024-03648-9
Authors: Ronaldo F. DE LIMA, Maria F. ELBERT and Barbara NELLI
- 2023 Weingarten Flows in Riemannian Manifolds
Illinois Journal of Mathematics
DOI: 10.1215/00192082-10817329
Author: Ronaldo Freire DE LIMA
- 2023 Elliptic Weingarten Hypersurfaces of
Riemannian Products
Mathematische Nachrichten
DOI: 10.1002/mana.202200025
Authors: Ronaldo F. DE LIMA, Alvaro K. RAMOS and João P. DOS SANTOS
- 2023 Translating Solitons to Flows by Powers of the
Gaussian Curvature in Riemannian Products
Archiv der Mathematik
DOI: 10.1007/s00013-023-01845-2
Author: Ronaldo F. DE LIMA
- 2022 Einstein Hypersurfaces of Warped Product
Spaces
Results in Mathematics
DOI: 10.1007/s00025-022-01758-6
Authors: Ronaldo F. DE LIMA, Fernando MANFIO and João P. DOS SANTOS
- 2022 A survey on Convex Hypersurfaces of
Riemannian Manifolds
Matemática Contemporânea
DOI: 10.21711/231766362022/rmc508
Author: Ronaldo F. DE LIMA
- 2022 O Teorema Espectral e suas Misteriosas Relações
com o Teorema da Decomposição Primária
Revista Matemática Universitária
DOI: 10.21711/26755254/rmu20227
Author: Ronaldo F. DE LIMA
- 2022 Hypersurfaces of Constant Higher Order Mean
Curvature in $M \times \mathbb{R}$
Annali di Matematica Pura ed Applicata
DOI: 10.1007/s10231-022-01229-3
Authors: Ronaldo F. DE LIMA, Fernando MANFIO and João P. DOS SANTOS
- 2021 Totally umbilical hypersurfaces of product spaces
Manuscripta Mathematica
DOI: 10.1007/s00229-021-01339-x
Authors: Ronaldo F. DE LIMA and João P. DOS SANTOS

- 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
Volume 59, pages 319–344
Author: Ronaldo Freire DE LIMA
Annals of Global Analysis and Geometry
- 2019 Convexity, Rigidity, and Reduction of Codimension of Isometric Immersions into Space Forms
Volume 50, pages 119–136
Authors: Ronaldo Freire DE LIMA and Rubens L. DE ANDRADE
Bulletin of the Brazilian Mathematical Society
- 2019 The n -dimensional Peano Curve
Volume 13, pages 678–688
Authors: Joaquim E. DE FREITAS, Ronaldo F. DE LIMA, and Daniel T. dos SANTOS
São Paulo Journal of Mathematical Sciences
- 2016 Geometrical and Analytical Properties of Chebyshev Sets in Riemannian Manifolds
Volume 144, Number 4, Pages 1697–1710
Author: Ronaldo Freire DE LIMA
Proceedings of the American Mathematical Society
- 2004 Maximum Principles at Infinity for Surfaces of Bounded Mean Curvature in \mathbb{R}^3 and \mathbb{H}^3
Vol. 53, No. 5, Pages 1211–1223
Authors: Ronaldo Freire DE LIMA and William MEEKS, III
Indiana University Mathematics Journal
- 2003 On Surfaces with Constant Mean Curvature in Hyperbolic Space
Volume 47, Number 4, Pages 1079–1098
Author: Ronaldo Freire DE LIMA
Illinois Journal of Mathematics
- 2001 A Maximum Principle at Infinity for Surfaces with Constant Mean Curvature in Euclidean Space
Volume 20, Pages 325–343
Author: Ronaldo Freire DE LIMA
Annals of Global Analysis and Geometry

PUBLISHED BOOKS

- 2016 Introdução à Geometria Diferencial
Published on line (in Portuguese). Available at <https://www.sbm.org.br>
Author: Ronaldo Freire DE LIMA
Brazilian Mathematical Society
- 2015 Topologia e Análise no Espaço \mathbb{R}^n
In Portuguese
Author: Ronaldo Freire DE LIMA
Brazilian Mathematical Society

2006

Pré-Cálculo

Secretaria de
Educação a
Distância

In Portuguese

Authors: Rubens Leão de ANDRADE and Ronaldo Freire DE LIMA

OTHER INFORMATION

Conferences
Presentations

- 2025 · Plenary talk in XVII Summer Workshop in Mathematics (UnB) – Brasília-DF, Brazil.
- 2024 · XXI Escola de Geometria Diferencial – Diamantina-MG, Brazil.
- 2024 · VII CLAM- Congreso Latinoamericano y del Caribe de Matemática – João Pessoa-PB, Brazil.
- 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

March 5, 2025