

# RONALDO FREIRE DE LIMA

## PERSONAL INFORMATION

*Born in Brazil*, 01 November 1964

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*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 Massachusetts, USA

*Post-Doc*

Work with William Meeks at GANG laboratory at UMASS

## PUBLISHED ARTICLES

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  $M \times \mathbb{R}$ .

*Annali di  
Matematica Pura  
ed Applicata*

Volume 200, pages 2385–2421  
Authors: Ronaldo Freire DE LIMA and Pedro ROITMAN

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*

- 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

July 10, 2022