

# Neemias Martins

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## EDUCATION

### University of Campinas

- PhD in Mathematics 2025

### Federal University of Viçosa

- MSc in Mathematics 2021
- BSc in Mathematics 2019

### Sapienza University of Rome

- Visiting student, Science without Borders program 2015 - 2016

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## TEACHING

### Federal University of Viçosa

2025 - today

#### *Professor, Assistente Nível 1*

- Medida e Integração (Mestrado) - MAT 644 2026/0
- Matemática Básica - MAT 101 2026/0
- Introdução à álgebra linear - MAT 137 2025/2
- Cálculo 1 - MAT 146 2025/2

### Pontifical Catholic University of Campinas

2025

#### *Professor*

- Calculus I
- Probability and Statistics
- Foundations of Discrete Mathematics
- Mathematical Logic
- Elements of Operations Research and Simulation

### University of Campinas

2023 - 2024

#### *Teaching Internship Program - PED*

- Practical classes and tutoring Calculus II - MA211

São Paulo State University, Campus Rio Claro 2021

*Graduate Student Teaching*

- Calculus I - MM5847

Federal University of Viçosa 2020

*Adjunct Professor*

- Differential and Integral Calculus I - MAT141

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## PUBLICATIONS

### Articles

- *Folding and Metric Entropies for Extended Shifts*. Journal of Dynamics and Differential Equations. 2026. Joint with Pedro. G. Mattos and Régis Varão.
- *Encoding  $n$ -to-1 baker's transformations*. Archiv der Mathematik. 119, 199–211, 2022. Joint with Pouya Mehdipour.
- *Ergodicity of a 2-to-1 baker map*. Proceeding Series of the Brazilian Society of Computational and Applied Mathematics, v.8, n.1, 2021. Joint with Pouya Mehdipour.

### Preprint

- *Ornstein Isomorphism Theorem for  $n$ -to-1 LM-Bernoulli transformations*. In preparation, 2025. Joint with Pouya Mehdipour and Régis Varão.

### Texts in Scientific Newspapers

- *O baker map 2-to-1*. JMat UFV, n. 7, p. 7, 2021. ISSN 2675-987X
- *Ergodicidade e Mixing*. JMat UFV, n. 5, p. 7, 2019. ISSN 2675-987X

### Editorial Work

- Editor, *Revista do PICME na UNICAMP*, 1ª Edição, 2025

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## SCHOLARSHIPS & AWARDS

Doctorate scholarship, CAPES 2021 - 2025

- *Ornstein's isomorphism theorem for  $n$ -to-1 extended Bernoulli maps*
- Advisors: Régis Varão and Pouya Mehdipour

Master scholarship, CAPES 2019 - 2021

- *O baker map 2-por-1*. Advisor: Pouya Mehdipour

Undergraduate research scholarship PIBIC, CNPq 2018

- *Ergodicity and mixing in dynamical systems*. Advisor: Pouya Mehdipour

Undergraduate research scholarships PICME, CNPq 2013 - 2017

- *Graphs embedded in closed and oriented surfaces*. Advisor: Catarina Mendes
- *Introduction to hyperbolic geometry and applications*. Advisor: Catarina Mendes

Science without Borders scholarship in Italy, CAPES 2015 - 2016

Minas Gerais Outstanding Student Award in Mathematics 2011

Silver Medal at Mathematical Olympiad of Public Schools 2009

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#### SELECTED TALKS

III Workshop Nordestino de Sistemas Dinâmicos 2026

*Talk: Ornstein isomorphism theorem for  $n$ -to-1 extended Bernoulli transformations*

Thermogamas - Brazil/France Webinar 2025

*Talk: Ornstein isomorphism theorem for  $n$ -to-1 extended symbolic dynamics*

Dyadisc 7: Brazilian-chilean and french interplay for symbolic dynamics 2024

*Poster: Exploring entropy and symbolic dynamics of  $n$ -to-1 maps*

XIII Workshop on Dynamical Systems - MAT80 2024

*Talk: Entropy of  $(m,l)$ -Bernoulli transformations*

DinAmicI in Rio, Dynamics, Applications, Interactions 2024

*Poster: Entropy of zip shifts*

XVIII Scientific Meeting of IMECC Graduate Students 2024

*Talk: Symbolic dynamics and the  $n$ -to-1 baker's transformations*

International Mathematics Days IV	2024
<i>Poster: Folding entropy of the Zip shift map</i>	
7th Brazilian School of Dynamical Systems	2023
<i>Poster: Ornstein's theory and the <math>n</math>-to-1 zip-shifts</i>	
International and Online Mathematics Days III	2023
<i>Poster: The Ornstein theorem</i>	
XL CNMAC	2021
<i>Talk: Ergodicity of a 2-to-1 baker map</i>	
Mathematics Day III	2018
<i>Talk: Ergodicity and Mixing on Dynamical Systems</i>	
XIX Brazilian Topology Meeting	2014
<i>Poster: Introduction to the theory of knots and polynomial invariants</i>	
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<b>SERVICE</b>	
Simpósio de Integração Acadêmica - SIA UFV	2025
<i>Reviewer</i>	
I Workshop de IC do IMECC	2025
<i>Organizing Committee</i>	
II Acampamento Científico no Imecc	2025
<i>Organizing Committee</i>	
39 <sup>a</sup> Unicamp Mathematics Olympiad	2023
<i>Proofreader</i>	
XXX Unicamp Scientific Initiation Congress	2022
<i>Poster Reviewer</i>	
UFV Mathematics Academic Week	2015
<i>Member of Organizing Committee</i>	

Undergraduate Math Committee – UFV

2014 - 2015

*Alternate Committee Member*