

# 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 EXPERIENCE

Pontifical Catholic University of Campinas 2025

*Professor*

- Calculus I - 114h
- Probability and Statistics - 76h
- Foundations of Discrete Mathematics - 38h
- Mathematical Logic - 152h
- Elements of Operations Research and Simulation - 38h

University of Campinas 2023 - 2024

*Teaching Internship Program - PED*

- Practical classes and tutoring Calculus II - MA211. Total workload of 240 hours

São Paulo State University, Campus Rio Claro 2021

*Graduate Student Teaching*

- Calculus I - MM5847. Total course load of 60h

Federal University of Viçosa 2020

*Adjunct Professor*

- Differential and Integral Calculus I - MAT141. Total course load of 180h

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## PUBLICATIONS

### ARTICLES

Mehdipour P., Martins N. *Encoding  $n$ -to-1 baker's transformations*. Arch. Math. 119, 199–211, 2022

Martins N., Mehdipour P. *Ergodicity of a 2-to-1 baker map*. Proceeding Series of the Brazilian Society of Computational and Applied Mathematics, v.8, n.1, 2021

### PREPRINTS

Martins N, Mehdipour P, Varão R. *Ornstein Isomorphism Theorem for  $n$ -to-1 (m,l)-Bernoulli transformations*. In preparation, 2025

Martins N, Mattos P. G., Varão R. *Folding and Metric Entropies for Extended Shifts*. Preprint, arXiv:2407.01828 [math.DS], 2025

### TEXTS IN SCIENTIFIC NEWSPAPERS

N. Martins. *O baker map 2-por-1*. JMat UFV, n. 7, p. 7, 2021. ISSN 2675-987X

N. Martins. *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, Brazilian Mathematical Olympiad of Public Schools 2009

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**SELECTED TALKS**

Dyadisc 7: Brazilian-chilean and french interplay for symbolic dynamics	2024
<i>Poster: Exploring entropy and symbolic dynamics of <math>n</math>-to-1 maps</i>	Campinas, Brazil
XIII Workshop on Dynamical Systems - MAT80	2024
<i>Talk: Entropy of <math>(m, l)</math>-Bernoulli transformations</i>	Campinas, Brazil
DinAmicI in Rio, Dynamics, Applications, Interactions	2024
<i>Poster: Entropy of zip shifts</i>	Rio de Janeiro, Brazil
XVIII Scientific Meeting of IMECC Graduate Students	2024
<i>Talk: Symbolic dynamics and the <math>n</math>-to-1 baker's transformations</i>	Campinas, Brazil
International Mathematics Days IV	2024
<i>Poster: Folding entropy of the Zip shift map</i>	Online
7th Brazilian School of Dynamical Systems	2023
<i>Poster: Ornstein's theory and the <math>n</math>-to-1 zip-shifts</i>	Fortaleza, Brazil
International and Online Mathematics Days III	2023
<i>Poster: The Ornstein theorem</i>	Online
XL National Congress of Applied and Computational Mathematics	2021
<i>Talk: Ergodicity of a 2-to-1 baker map</i>	Online
Mathematics Day III	2018
<i>Talk: Ergodicity and Mixing on Dynamical Systems</i>	Viçosa, Brazil
XIX Brazilian Topology Meeting	2014
<i>Poster: Introduction to the theory of knots and polynomial invariants</i>	SJRP, Brazil

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**SERVICE**

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>	
Coordinating Committee of UFV Undergraduate Math Course	2014 - 2015
<i>Alternate Member</i>	