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

TEACHING

Federal University of Viçosa   2025 - today

Professor, Assistente Nível 1

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

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

Martins, N., Mattos, P.G., Varão, R. *Folding and Metric Entropies for Extended Shifts.* Journal of Dynamics and Differential Equations. 2026.

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

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 Medalian Mathematical Olympiad of Public Schools   2009

Selected Talks

III Workshop Nordestino de Sistemas Dinâmicos   2026
Ornstein isomorphism theorem for n-to-1 extended Bernoulli transformations   Salvador

Thermogamas - Brazil/France Webinar   2025
Ornstein isomorphism theorem for n-to-1 extended symbolic dynamics   Online

Dyadisc 7: Brazilian-chilean and french interplay for symbolic dynamics   2024
Poster: Exploring entropy and symbolic dynamics of n-to-1 maps   Campinas

XIII Workshop on Dynamical Systems - MAT80   2024
Talk: Entropy of (m,l)-Bernoulli transformations   Campinas

DinAmicI in Rio, Dynamics, Applications, Interactions   2024
Poster: Entropy of zip shifts   Rio de Janeiro

XVIII Scientific Meeting of IMECC Graduate Students   2024
Talk: Symbolic dynamics and the n-to-1 baker's transformations   Campinas

International Mathematics Days IV   2024
Poster: Folding entropy of the Zip shift map   Online

7th Brazilian School of Dynamical Systems   2023
Poster: Ornstein's theory and the n-to-1 zip-shifts   Fortaleza

International and Online Mathematics Days III   2023
Poster: The Ornstein theorem   Online

XL National Congress of Applied and Computational Mathematics   2021
Talk: Ergodicity of a 2-to-1 baker map   Online

Mathematics Day III   2018
Talk: Ergodicity and Mixing on Dynamical Systems   Viçosa

XIX Brazilian Topology Meeting   2014

Poster: Introduction to the theory of knots and polynomial invariants SJRP

SERVICE

I Workshop de IC do IMECC 2025
Organizing Committee

II Acampamento Científico no Imecc 2025
Organizing Committee

39ª Unicamp Mathematics Olympiad 2023
Proofreader

XXX Unicamp Scientific Initiation Congress   2022
Poster Reviewer

UFV Mathematics Academic Week   2015
Member of Organizing Committee

Coordinating Committee of UFV Undergraduate Math Course   2014 - 2015
Alternate Member