

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 EXPERIENCE

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. 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

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

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

SELECTED TALKS

| | |
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| Dyadisc 7: Brazilian-chilean and french interplay for symbolic dynamics | 2024 |
| <i>Poster: Exploring entropy and symbolic dynamics of n-to-1 maps</i> | Campinas, Brazil |
| XIII Workshop on Dynamical Systems - MAT80 | 2024 |
| <i>Talk: Entropy of (m, l)-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 n-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 n-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 |

SERVICE

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| I Workshop de IC do IMECC | 2025 |
| <i>Organizing Committee</i> | |
| II Acampamento Científico no Imecc | 2025 |
| <i>Organizing Committee</i> | |
| 39 ^a Unicamp Mathematics Olympiad | 2023 |
| <i>Proofreader</i> | |

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| 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> | |