Raul Steven, Rodriguez Chavez.

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Personal Information

Personal Data	**Name:** Raul Steven Rodriguez Chavez. **Nationality:** Peruvian. **ORCID:** 0009-0002-7636-3257
Research interests	My research focuses on ergodic theory and dynamical systems, in particular on the asymptotic behavior of orbits, statistical properties and partial hyperbolic dynamics.

Education and Degrees

2024 – Current	PhD in Mathematics. Department of Mathematics. Pontifical Catholic University of Rio de Janeiro (PUC–Rio). **Advisor:** Lorenzo J. Diaz. **Scholarship:** Fundação Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES), Brazil.
2022 – 2024	Master's Degree in Mathematics. Department of Mathematics. Pontifical Catholic University of Rio de Janeiro (PUC–Rio). **Title:** Statistical behavior of skew products: Schwarzian derivative and arc-sine laws. **Date of Defense:** Abril 5, 2024. **Advisor:** Lorenzo J. Diaz. **Co-advisor:** Dr. Pablo G. Barrientos, UFF, Brazil. **Scholarship:** Rio de Janeiro State Research Foundation (FAPERJ-Nota10), Brazil.
2017 – 2021	Undergraduate studies in Mathematics. Faculty of Natural and Formal Sciences, Professional School of Mathematics. San Agustín National University of Arequipa (UNSA), Arequipa, Peru. **Title:** The last problem of Takens: abundance of historical behavior (Spanish Version). **Advisor:** Roberto Carlos Begazo Delgado (UNSA). **External Advisor:** Pablo G. Barrientos, UFF, Brazil. **Scholarship:** Beca Permanencia from the Peruvian Government.

Additional Education

2021	General Topology. Summer School of IM/UFRJ 2021. Federal University of Rio de Janeiro, Brazil.
2019	Introduction to Variational Calculus. 10th School of Mathematics of Latin America and the Caribbean - EMALCA Potosí. Universidad Autónoma Tomás Frías, Potosí- Bolivia.

Additional Education (continued)

- Introduction to Fourier Analysis.
  10th School of Mathematics of Latin America and the Caribbean - EMALCA Potosí.
  Universidad Autónoma Tomás Frías, Potosí- Bolivia.

Professional Experience

2021
- Monitor in Multivariable Calculus.
  San Agustin National University of Arequipa, Peru.

Languages

Spanish
- Native language.

English
- Fluente

Portuguese
- Fluente.

French
- Basic.

Awards and Titles

2023
- Selected for the Rio de Janeiro State Research Foundation (FAPERJ-Nota 10) Scholarship, Brazil.

2020
- 2nd Place in the second year in the ranking of the Professional School of Mathematics.

2019
- 2nd Place in the second year in the ranking of the Professional School of Mathematics.

2018
- 1st Place in the second year in the ranking of the Professional School of Mathematics.

Publications

Preprints (ArXiv)

- Historical behavior of skew products and arcsine laws.
  Preprint (2024) with P. G. Barrientos (ArXiv),

Participation in Events

Academic visits

2024
- Research visit to Ali Tahzibi and Douglas Coates.
  Instituto de Ciências Matemáticas e de Computação (ICMC-USP), São Carlos, Brazil.
  Project: Non-statistical behaviour of certain skew translations.
  Short lecture: Historical behavior in some skew products.
  Funding: CNPq research grant from Lorenzo Díaz.

Poster Presentations

2024
- Workshop 2+3 in Dynamics.
  Universidade Federal do Ceará, Ceará, Brazil.
  Poster: Historical behavior of skew products and arcsine laws.
  Funding: Partially provided by PROEX DMAT PUC-Rio and the local organizers.

🔖 Workshop on statistical properties of chaotic dynamics in and out of equilibrium.
Erdős Center–HUN-REN Rényi Institute, Budapest, Hungary.
Poster: Non-statistical behavior through arcsine laws.
Funding: CNPq research grant from Lorenzo Díaz.

🔖 School and Workshop on Dynamical Systems.
International Centre for Theoretical Physics (ICTP), Trieste, Italy.
Poster: Historical behavior of skew products and arcsine laws.
Funding: Partially provided by the CNPq research grant from Lorenzo Díaz and the ICTP.

2023   🔖 1st LESET workshop Lyapunov Exponents and Smooth Ergodic Theory.
Universidade Federal de Minas Gerais, Paraty, Brazil.
Poster: Variations in the asymptotic behavior of skew products.
Funding: INCT/Faperj.

🔖 VII Brazilian School of dynamical systems.
Universidade Federal do Ceará, Ceará, Brazil.
Poster: Skew products with historical behavior.
Funding: Partially provided by PROEX DMAT PUC-Rio and the local organizers.

Participation in events, conferences, and schools

2025   🔖 Minicourse and Workshop "Statistical Properties of Smooth Dynamical Systems".
Wake Forest University. North Carolina, United States.
Funding: Provided from the U.S. National Science Foundation, Award Number NSF-2418590, administered by Fan Yang.

2024   🔖 School on probabilistic aspects of hyperbolic dynamical systems.
Erdős Center–HUN-REN Rényi Institute, Budapest, Hungary.
Funding: CNPq research grant from Lorenzo Díaz.

🔖 1st School of Advanced Studies.
Universidade Federal do Ceará, Ceará, Brazil.
Funding: Partially provided by INCT/Faperj and the local organizers.

2023   🔖 34th Brazilian Mathematics Colloquium.
Instituto Nacional de Matemática Pura e Aplicada (IMPA), Rio de Janeiro, Brazil.

2022   🔖 7th Interinstitutional Seminar of Dynamical Systems Students.
PUC-Rio, UFF, UFRJ and IMPA. Rio de Janeiro, Brazil.
Lecture: Skew Products with Historical Behavior.

🔖 School "Foliations and Flows of Anosov of Dimension 3".
La Universidad de la República, Montevideo, Uruguay.
Short Lecture: Hyperbolic Dynamics.
Funding: INCT/Faperj.

🔖 International Conference on Dynamical Systems.
Instituto Nacional de Matemática Pura e Aplicada (IMPA), Rio de Janeiro, Brazil.

🔖 Thematic Week of Dynamical Systems (Online).
Universidade Federal de Bahia, Salvador, Brazil.

2021   🔖 Workshop on Kleinian Groups and Related Topics II (Online).
Autonomous University of Mexico, Ciudad de Mexico, Mexico.

Participation in Events (continued)

■ 33rd Brazilian Mathematics Colloquium (Online).
Instituto Nacional de Matemática Pura e Aplicada (IMPA), Rio de Janeiro, Brazil.

■ XLIX Summer School in Mathematics (Online).
University of Brasilia. Brazil.

2020   ■ I Virtual International Congress of Mathematics.
San Agustion National University of Arequipa. Arequipa, Peru.

2019   ■ XXXVI National Colloquium on Mathematics "Cesar Carranza Saravia".
Peruvian Mathematical Society, Lambayeque, Peru.

2018   ■ XXXV Colloquium of the Peruvian Mathematical Society.
Institute of Mathematics and Related Sciences (IMCA). Lima, Peru.