

Yuri Lima

Full Professor in Mathematics
 Instituto de Matemática e Estatística
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PERSONAL INFORMATION

Citizenship	Brazil
Date of Birth	February 5, 1985
Place of Birth	Fortaleza, Brazil

EDUCATION

Ph.D. in Mathematics Instituto Nacional de Matemática Pura e Aplicada - Brazil Advisor: Enrique Ramiro Pujals Dissertation: Dynamics of sets of zero density	Mar 2011
Master of Science in Mathematics Universidade Federal do Ceará - Brazil	Jun 2008
Bachelor Degree in Mathematics Universidade Federal do Ceará - Brazil Summa Cum Laude	Jul 2006

POSITIONS HELD

Full Professor Universidade de São Paulo - Brazil	Feb 2025 - present
Assistant Professor Universidade Federal do Ceará - Brazil	Jan 2017 - Feb 2025
Sophie Germain Postdoctoral Fellow in Mathematics Université Paris-Sud 11 - France	Sep 2015 - Aug 2017
Brin Postdoctoral Fellow in Mathematics University of Maryland - USA	Aug 2013 - Aug 2015
Postdoctoral Fellow in Mathematics Weizmann Institute of Science - Israel Mentor: Omri Sarig	Oct 2011 - Jul 2013
Balzan Postdoctoral Fellow in Mathematics Instituto Nacional de Matemática Pura e Aplicada - Brazil Mentor: Jacob Palis	Mar 2011 - Sep 2011

RESEARCH INTERESTS

- Dynamical Systems
- Ergodic Theory
- Probability
- Combinatorics

GRANTS, AWARDS, AND HONORS

- Brazilian Academy of Sciences and Fulbright Jacob Palis Award (US\$70,000) 2025
- USP Prize “Excellence for New Leaderships in Research” (Honourable Mention) 2025
- Affiliate Member of the Third World Academy of Sciences 2024 - 2029
- Affiliate Member of the Brazilian Academy of Sciences 2024 - 2028
- FUNCAP Universal (R\$37,000) Nov 2023 - Nov 2025
- Regular Associate ICTP 2023 - 2028
- Member of Brazilian Delegation at the International Congress of Mathematicians 2022, Helsinki (Finland) Jul 2022
- CAPES consultant 2022
- Prêmio SBM 2021 (Menção Honrosa) Dez 2021
- Serrapilheira (R\$1,400,000) Nov 2019 - Jul 2027
Title: Jangada Dinâmica: boosting dynamics systems in Brazil’s Northeastern region
- Royal Society-Newton Advanced Fellowship (£39,900) Apr 2018 - Mar 2020
Title: Decay of correlations and statistical properties of high-dimensional dynamical systems
- Serrapilheira (R\$100,000) Mar 2018 - Aug 2019
Title: Symbolic dynamics and non-uniform hyperbolicity
- AMS Simons travel grant Aug 2014 - Aug 2015
- Capes/Weizmann 2012 grant Jun 2012 - Jun 2014
Title: Infinite ergodic theory
- Carlos Gutierrez Prize of Best Ph.D. Thesis in Mathematics 2011 Aug 2012
- J. Palis 2010 Balzan Prize for Mathematics Postdoctoral Fellowship Mar 2011 - Oct 2011
- Faperj Nota 10 Ph.D. Fellowship Mar 2009 - Mar 2011
- CNPq Ph.D. Fellowship Mar 2007 - Feb 2009
- IMPA Summer Fellowship 2002, 2005, 2007
- Honors at Undergraduates Research Meeting of IMPA Nov 2004
- Gold medal - 11th International Math Competition for University Students, Macedonia Jul 2004
Received and honored by the President of Brazil, Luis Inacio Lula da Silva, in Brasília D.F., Sep 2004
- Bronze medal - 44th International Mathematical Olympiad, United Kingdom Jul 2002
- Gold medal - 5th Brazilian Informatics Olympiad Jul 2004

PROFESSIONAL EXPERIENCE

Universidade Federal do Ceará - Assistant Professor

I taught undergraduate and graduate courses, organized seminars, advised students (6 scientific initiation, 6 master's degree, 1 PhD degree, and 5 postdoctoral fellows), and participated in administrative committees.

- Undergraduate classes: 19
- Graduate classes: 16
- Seminars: 6
- Academic Coordinator of the Postgraduate Program in Mathematics: 2021 - 2025

University of Maryland - Instructor

I taught undergraduate courses. I chose the textbook, designed the organization of lectures, wrote/graded exams and wrote weekly homework assignments.

- Introduction to probability theory Spring 2015
- Applications of linear algebra Spring 2014
- Introduction to probability theory Fall 2013

IMPA - Instructor and Teaching Assistant

As an instructor, I designed/taught a graduate course. I was teaching assistant for graduate courses. I wrote/graded homework assignments, and had weekly meetings with students to discuss the material covered.

- Infinite ergodic theory (Instructor) Spring 2011
- Differentiable ergodic theory (Teaching assistant) Fall 2010
- Ordinary differential equations (Teaching assistant) Spring 2009
- Linear algebra (Teaching assistant) Winter 2009
- Discrete mathematics (Teaching assistant) Fall 2008

Mathematics Olympiad - Instructor

I designed/taught the course, and wrote lecture notes and exams. Throughout the years I trained students in different areas: algebra, combinatorics, geometry, number theory, analysis.

- Elite High School - Brazil 2007 - 2010
- Evolutivo High School - Brazil 2005 - 2007
- Sete de Setembro High School - Brazil 2004 - 2007

University of Utah - Research Assistant

From Feb - May 2006, I was a research assistant in computer graphics at the Scientific Computing and Imaging Institute (SCI) - University of Utah. I improved a method of object reconstruction via cloud data, called moving least squares, for objects with sharp features.

ORGANIZING AND SCIENTIFIC COMMITTEE

- 9th Brazilian School in Dynamical Systems, UFBA, Brazil Oct 2027
Scientific Committee
- 36th Colóquio Brasileiro de Matemática, Brazil Jul 2027
Scientific Committee
- 3rd Workshop on Combinatorics, Number Theory and Dynamical Systems, UFC Oct 2026
- 7th BRICS Conference in Mathematics, USP, Brazil Aug 2026
- III Workshop Nordeste de Sistemas Dinâmicos, UFBA, Brazil Jan 2026
- 8th Brazilian School in Dynamical Systems, IMPA, Brazil Nov 2025
Scientific Committee
- 35th Colóquio Brasileiro de Matemática, Brazil Aug 2025
Scientific Committee
- 2nd School of Advanced Studies, UFC, Fortaleza, Brazil Jan 2025
Organizer and Scientific Committee
- 2+3 in Dynamics, UFBA – UFC, Fortaleza, Brazil Sep 2024
Organizer and Scientific Committee
- 1st School of Advanced Studies, UFC, Fortaleza, Brazil Jan 2024
Organizer and Scientific Committee
- 7th Brazilian School in Dynamical Systems, UFC, Brazil Oct 2023
Organizer and Scientific Committee
- 34th Colóquio Brasileiro de Matemática, Brazil Aug 2023
Scientific Committee
- Thematic Session “Sistemas Dinâmicos”, V Colóquio de Matemática do Nordeste, UFPB - João Pessoa, Brazil Nov 2022
- 2nd Jangada Dinâmica, UFC - Fortaleza, Brazil Nov 2022
Organizer and Scientific Committee
- VI Colóquio de Matemática da Região Norte, IFCE - Roraima, Brazil Oct 2022
Scientific Committee
- AGRA IV - Aritmética, Grupos y Análisis (Part II), IMPA/ICTP, Brazil/Italy Jun 2022
Scientific Committee
- School and Workshop Markov partitions and Young towers in dynamics, ICTP, Italy Nov 2021
Organizer and Scientific Committee
- 6th Brazilian School in Dynamical Systems, UFC, Brazil Oct 2021
Organizer and Scientific Committee
- AGRA IV - Aritmética, Grupos y Análisis (Part I), IMPA/ICTP, Brazil/Italy Aug 2021
Scientific Committee
- Thematic Session “Dynamic. Systems”, 33rd Colóquio Brasileiro de Matemática, Brazil Aug 2021
Organizer
- 33rd Colóquio Brasileiro de Matemática, Brazil Aug 2021
Scientific Committee
- Seminar “First Iterations”, Brazil June 2021 - now
Organizer

- Seminar “Dinâmica Arretada”, Brazil Sep 2020 - Aug 2021
Organizer
- Statistical aspects of geodesic flows in nonpositive curvature, University of Warwick, UK Jan 2020
Organizer and Scientific Committee
- Jangada Dinâmica, UFC - Fortaleza, Brazil Jan 2019
Organizer
- Thematic Session “Dynamical Systems and Ergodic Theory”, III Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura, Aplicada e Estatística, Brazil Dec 2018
Organizer
- Special Session “Symbolic Dynamics”, Mathematical Congress of the Americas, Canada Jul 2017
Organizer
- 2nd Workshop on Combinatorics, Number Theory and Dynamical Systems, IMPA Aug 2015
Scientific Committee
- Dynamics Seminar, University of Maryland Sep 2014 - May 2015
Organizer
- Workshop on Dynamical Systems and Related Topics, University of Maryland Apr 2015
Organizer
- Summer School on Dynamical Systems, University of Maryland Aug 2014
Organizer and Scientific Committee
- 1st Workshop on Combinatorics, Number Theory and Dynamical Systems, IMPA Aug 2013
Scientific Committee

OUTREACH

Talks

- Round table at “7° Colóquio de Matemática da Região Norte”, Parintins May 25
- Talk at “9° Encontro Hotel de Hilbert”, Natal Abr 24
- Webinar “Apresentação do Edital de Bolsa de Pós-Doutorado”, INCTMat, Brazil Jul 23
- Talk at “Mathematical Summer in Paris”, Fondation Mathém. Jacques Hadamard, France Jun 23
- Round table “Olimpíadas de Matemática: mitos e verdades”, V Colóquio de Matemática do Nordeste, UFPB - João Pessoa, Brazil Nov 22
- Talk “Um convite aos sistemas dinâmicos”, IFCE - Caucaia, Brazil May 22
- Round table “A docência na vida de jovens cientistas”, INCTMat, Brazil Dez 21
- Talk at “IX SEMAT”, UFV, Brazil Nov 21
- Round table “Olimpíadas de Matemática: preparação, desafios e oportunidades” Nov 21
- Talk at “Café Cultural”, UFBA, Brazil Aug 21
- Live “Oficina da Olimpíada Pessoaense de Matemática 2021”, UFPB, Brazil Aug 21
- Talk at “Mathematical Summer in Paris”, Fondation Mathém. Jacques Hadamard, France Jul 21
- Round table “Atividade de Desenvolvimento Profissional”, INCTMat, Brazil Nov 20

- Live “Combinatória Geométrica”, IFCE - Crateús, Brazil Oct 20
- Lives “Olimpíadas de Matemática: pontapé inicial e aprofundamento”, SBM, Brazil Aug 20
- Live “Pontos periódicos: para que, como e quantos?”, SBM, Brazil Jul 20
- Ciclo de Palestras (online talk), IFCE - Maracanaú, Brazil Jun 20
- Jornada Olímpica da OPiM, UFPI - Teresina, Brazil Sep 19
- Thematic Session “Mathematical Olympiads”, 32nd Brazilian Mathematics Colloquium, IMPA - Rio de Janeiro, Brazil Jul 19
- III SEMAT, IFCE - Fortaleza, Brazil Apr 19
- Feira do Conhecimento, Convention Center - Fortaleza, Brazil Oct 17
- Olympiad Session, 27th Brazilian Mathematics Colloquium, IMPA - Rio de Janeiro, Brazil Jul 09

Brazilian Mathematical Olympiad - Committee Member

I am a committee member of the Brazilian Mathematical Olympiad since 2011. The committee prepares exams, teaches and coordinates trainings for international competitions, organizes competitions, selects the Brazilian team for international competitions, and designs methods for disseminating Mathematics among elementary/high school students.

- Leader of UFC team - 28th International Math Competition for University Students, UK 2022
- Leader of UFC team - 28th International Math Competition for University Students, UK 2021
- Problem coordinator - 58th International Mathematical Olympiad, Rio de Janeiro, Brazil 2017
- Leader - 4th Romanian Masters of Mathematics, Bucharest, Romania 2011
- Problems committee - 2nd Iberoamerican Math Competition for University Students, Brazil 2010
- Leader - 15th International Math Competition for University Students, Bulgaria 2008
- Leader - 16th South American Math Olympiad, Uruguay 2007
- Coordinator - South American Math Olympiad Training 2005 - 2011
- Deputy Leader - Iberoamerican Math Olympiad, Colombia 2005
- Instructor - Brazilian Math Olympiad Summer Camp 2005 - 2010

TALKS

- Palestra de Divulgação, UFBA - Salvador, Brazil Jan 26
- Colóquio do IME, USP - São Paulo, Brazil Nov 25
- Workshop “Probability, Geometry, and Dynamics”, UNICAMP - Campinas, Brazil Nov 25
- Oktobermat, PUC - Rio de Janeiro, Brazil Oct 25
- Postgraduate Inaugural Lecture, UFMG - Belo Horizonte, Brazil Oct 25
- TWAS Young Affiliates Network 2025, UNICAMP - Campinas, Brazil Sep 25
Plenary talk

- UMALCA 30 Years, UNICAMP - Campinas, Brazil Sep 25
Plenary talk
- Workshop on Stochastic Reinforcement processes, BIRS - Banff, Canada Sep 25
- 2nd SENIC (Semana Nacional de Iniciação Científica), UFPA - Belém, Brazil Aug 25
Plenary talk
- 9th IST-IME conference, USP - São Paulo, Brazil Aug 25
- 7° Colóquio de Matemática da Região Norte, Parintins May 25
Plenary talk
- 2nd LESET Workshop, Pontificia Universidade Católica - Valparaíso, Chile Dez 24
- Dynamical Systems Seminar, Stony Brook, USA Nov 24
- Ergodic Theory and Dynamical Systems Seminar, Graduate Center - New York, USA Nov 24
- Learning Seminar, Graduate Center - New York, USA Nov 24
- 4° Colóquio Brasileiro de Matemática da Região Sudeste, São José do Rio Preto, Brazil Oct 24
Plenary talk
- Ergodic Theory and Dynamical Systems, Soochow University - Suzhou, China Aug 24
- Advances in Dynamics, SUSTech - Shenzhen, China Aug 24
- Seminário Teoria Ergódica, UFRJ - Rio de Janeiro, Brazil May 24
- Dinámica Porteña, Pontificia Universidade Católica - Valparaíso, Chile Apr 24
- II Encontro Bilhar Mineiro, UFMG, Brazil Mar 24
- Ergodic Theory and Dynamical Systems, SUSTech - Shenzhen, China Dec 23
- 1st LESET Workshop, Paraty, Brazil Nov 23
- Palestra da Pós-Graduação, UFPE - Recife, Brazil Nov 23
- XI Jornada de Matemática da UFPI, UFPI - Teresina, Brazil Sep 23
- Conference “Probabilistic Methods in Dynamics”, Centro di Ricerca Matematica Ennio De Giorgi - Pisa, Italy May 23
- Dynamics and Probability Seminar, Hebrew University - Jerusalem, Israel May 23
- GAFA & Probability Seminar, Weizmann Institute of Science - Rehovot, Israel May 23
- Workshop “Thermodynamic Formalism: Non-additive Aspects and Related Topics”, INPAM - Bedlewo, Poland May 23
- Workshop “The Lorentz Gas”, Lorentz Center - Leiden, Netherlands Dec 22
- V Colóquio de Matemática da Região Nordeste, UFPB - João Pessoa, Brazil Nov 22
Plenary talk
- Dinâmica Arretada (online talk), Brazil Aug 22
- Thematic Session “Billiards”, Encontro Conjunto Brasil-Portugal em Matemática, UFBA - Salvador, Brazil Aug 22
- Limit Theorems for Slowly Mixing Systems, International Centre for Mathematical Sciences - Edinburgh, Scotland Jun 22

- Dinámica Porteña (online talk), Pontificia Universidade Católica - Valparaíso, Chile Apr 22
- Oberseminar Geometrie und Analysis (online talk), RWTH Aachen University, Germany Nov 21
- Dynamics seminar (online talk), Tsinghua University, Beijing, China Nov 21
Two talks
- Hyperbolic and Symplectic Dynamics (online talk), Ruhr-Univ. Bochum, Bochum, Germany Sep 21
- Thematic Session “Sistemas Dinámicos y Teoría Ergódica” (online talk), VI Congreso Latinoamericano de Matemáticos, Montevideo, Uruguay Sep 21
- Singularities Seminar (online talk), Universidade Federal do Ceará - Fortaleza, Brazil Mar 21
- Dynamical Systems Seminar (online talk), Universidade do Porto - Porto, Portugal Mar 21
- “What is...?” Seminar (online talk), Universidade da Beira Interior - Covilhã, Portugal Mar 21
- Dynamical Systems e-Seminar (online talk), Hebrew University - Jerusalem, Israel Nov 20
- Seminários de Matemática (online talk), UFPB - João Pessoa, Brazil Oct 20
- Dynamical Systems Zoom Seminar (online talk), Penn State - State College, USA Sep 20
- Resistência Dinâmica – Dynamic Resistance (online talk), Rio de Janeiro, Brazil May 20
- Dynamical Systems Seminar (online talk), IM PAN - Warsaw, Poland Apr 20
- Summer Workshop on PDEs and Dynamical Systems, UFPE - Recife, Brazil Feb 20
- DynamiX, École Polytechnique - Palaiseau, France Jan 20
- 5th Brazilian School on Dynamical Systems, UFMG - Belo Horizonte, Brazil Oct 19
- Thematic Session “Dynamical Systems and Ergodic Theory”, 32nd Brazilian Mathematics Coll., IMPA - Rio de Janeiro, Brazil Jul 19
- Equilibrium states for dynamical systems arising from geometry, AIM - San Jose, USA Jul 19
- Ergodic Theory and Dynamical Systems, Soochow University - Suzhou, China Jul 19
- Ergodic Theory and Dynamical Systems, SUSTech - Shenzhen, China Jul 19
- Ergodic Theory and Dynamical Systems seminar, University of Bristol - Bristol, UK Feb 19
- Analysis seminar, University College Dublin - Dublin, Ireland Feb 19
- Ergodic Theory and Dynamical Systems seminar, University of Warwick - Warwick, UK Feb 19
- III Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura, Aplicada e Estatística, Curitiba, Brazil Dec 18
Plenary talk
- 78° EDAÍ, Universidade Federal Fluminense - Niterói, Brazil Oct 18
- Colloquim, Pontificia Universidade Católica - Rio de Janeiro, Brazil Oct 18
- Thermodynamic formalism in dynamical systems, International Centre for Mathematical Sciences - Edinburgh, Scotland Jun 18
- Dynamical Systems and Ergodic Theory Seminar, USP - São Carlos, Brazil Jun 18
- Dynamics and Probability Seminar, Hebrew University - Jerusalem, Israel May 18
- TopDin 2018, Universidade Federal Fluminense - Niterói, Brazil Feb 18

- Dynamics, Ergodic Theory and Probability Seminar, Université de Picardie Jules Verne - Amiens, France Mar 17
- Ergodic Theory and Dynamical Systems Seminar, University of Bristol - Bristol, UK Dec 16
- Graduate Student and Postdoc Seminar, Université Paris-Sud 11 - Orsay, France May 16
- Ergodic Theory Seminar, Université Rennes 1, France April 16
- Random Spatial Processes and Dynamics, Texas A&M - College Station, USA April 16
- British Mathematical Colloquium (special session), University of Bristol - Bristol, UK Mar 16
- Fractal Geometry, Hyperbolic Dynamics and Thermodynamical Formalism, ICERM - Providence, USA Mar 16
- Dynamics of Geometric Group Actions in honor of F. Ledrappier 70th birthday (surprise talk), Universität Bonn - Bonn, Germany Jan 16
- 1st Joint Meeting Brazil-Spain in Mathematics, UFC - Fortaleza, Brazil Dec 15
Semi-plenary talk
- Séminaire de l'équipe Topologie Dynamique, Université Paris-Sud 11 - Orsay, France Nov 15
- Ergodic Theory and Dynamical Systems seminar, Université Paris 13 - Paris, France Oct 15
- Ergodic Theory seminar, IMPA - Rio de Janeiro, Brazil Oct 15
- EDAÍ, Universidade Federal do Rio de Janeiro - Rio de Janeiro, Brazil Aug 15
- ICTP-ESF School and Workshop on Dynamical Systems, ICTP - Trieste, Italy Aug 15
- Dynamics seminar, University of Chicago - Chicago, USA May 15
- Dynamics seminar, University of Maryland - College Park, USA Mar 15
- Mathematics colloquium, University of Southern California - Los Angeles, USA Dec 14
- Geometry seminar, Universidade Federal do Ceará - Fortaleza, Brazil Nov 14
- Operator Algebras and Dynamical Systems seminar, USNA - Annapolis, USA Nov 14
- Probability seminar, UCLA - Los Angeles, USA Nov 14
- Ergodic Theory and Dynamical Systems seminar, University of Warwick - Warwick, UK Sep 14
- Groupe de travail "Théorie ergodique et systèmes dynamiques", Orsay - Paris, France Sep 14
- Summer School on Dynamical Systems, University of Maryland - College Park, USA Aug 14
- Dynamics seminar, IMPA - Rio de Janeiro, Brazil May 14
- Dynamics seminar, Northwestern University - Evanston, USA May 14
- Dynamics seminar, University of Maryland - College Park, USA Mar 14
- Operator Algebras and Dynamical Systems seminar, USNA - Annapolis, USA Nov 13
- Lefschetz Center for Dynamical Systems seminar, Brown University - Providence, USA Oct 13
- Dynamics seminar, University of Maryland - College Park, USA Sep 13
- 2nd Palis-Balzan Symposium on Dynamical Systems, IHP - Paris, France Jun 13
- Horowitz seminar, Tel Aviv University - Tel Aviv, Israel May 13

- Center for Dynamics and Geometry seminar, Penn State - State College, USA Mar 13
- Dynamics seminar, University of Chicago - Chicago, USA Mar 13
- Groups Actions & Dynamics seminar, University of Texas - Austin, USA Feb 13
- Dynamics seminar, University of Maryland - College Park, USA Feb 13
- Dynamics and Probability seminar, Hebrew University - Jerusalem, Israel Jan 13
- Probability and Combinatorics seminar, IMPA - Rio de Janeiro, Brazil Nov 12
- Dynamics seminar, IMPA - Rio de Janeiro, Brazil Nov 12
- 2nd Brazilian School on Dynamical Systems, USP - São Carlos, Brazil Oct 12
- Dynamics seminar, Moscow State University - Moscow, Russia Sep 12
- Carlos Gutierrez Prize, University of São Paulo - São Carlos, Brazil Aug 12
- Dynamics seminar, UNESP - São José do Rio Preto, Brazil Aug 12
- 1st Palis-Balzan Symposium on Dynamical Systems, IMPA - Rio de Janeiro, Brazil Jun 12
- ICTP-ESF School and Workshop on Dynamical Systems, ICTP - Trieste, Italy May 12
- Analysis seminar, Technion - Haifa, Israel Apr 12
- Special seminar on Infinite Ergodic Theory, Tel Aviv University - Tel Aviv, Israel Mar 12
- Dynamics and Probability seminar, Hebrew University - Jerusalem, Israel Jan 12
- Ergodic Theory and Dynamical Systems seminar, Université Paris 13 - Paris, France Dec 11
- Probability and Ergodic Theory seminar, Ben Gurion University - Be'er Sheva, Israel Nov 11
- EDAÍ, Universidade Federal do Rio de Janeiro - Rio de Janeiro, Brazil Aug 11
- Workshop on Dynamical Systems, Universidad Catolica - San Pedro de Atacama, Chile May 10
- Brazilian Undergraduates Research Meeting, IMPA - Rio de Janeiro, Brazil Nov 04

MINICOURSES

- Partially hyperbolic diffeomorphisms with zero center exponent: an invariance principle (joint with Mauricio Poletti), 8 hours, ICTP - Trieste, Italy Jul 24
- Symbolic dynamics for nonuniformly hyperbolic systems, 3 hours, UFRGS - Porto Alegre, Brazil Sep 22
- Hiperbolicidade não-uniforme, 3 hours, UFBA - Salvador, Brazil Feb 22
- Symbolic dynamics for nonuniformly hyperbolic systems, 10 hours, ICTP - Trieste (online), Italy Nov 21
- Symbolic dynamics for nonuniformly hyperbolic systems, 8 hours, Tsinghua University - Beijing, China Jul 19
- A toolkit of non-uniform hyperbolicity, 4.5 hours, University of Warwick - Warwick, UK Feb 19
- Symbolic dynamics: a brief introduction, 4.5 hours, IV Colóquio de Matemática da Região Nordeste - São Luís, Brazil Nov 18

- Symbolic dynamics, 6 hours, Pontificia Universidad Católica de Chile - Santiago, Chile Oct 18
- Symbolic dynamics for surface diffeomorphisms, 3 hours, Beyond Uniform Hyperbolicity - Provo, USA Jun 17
- Symbolic dynamics for low-dimensional systems with positive entropy, 3 hours, ICTP - Trieste, Italy Jul 16
- Symbolic dynamics for low dimensional non-uniformly hyperbolic systems, 10 hours, Jagiellonian University - Krakow, Poland May 16
- Symbolic dynamics for hyperbolic systems, 2 hours, ICERM - Providence, USA Mar 16
- Introduction to Ratner theory, 6 hours, IMPA - Rio de Janeiro, Brazil Aug 13
- Poincaré Recurrence, 2 hours, UFC - Juazeiro do Norte, Brazil Aug 11

LONG-TERM VISITS

- ICTP - Trieste, Italy Jul 24
- University of Warwick - Warwick, UK Jan 20
- University of Warwick - Warwick, UK Feb 19
- IMPA - Rio de Janeiro, Brazil Oct 2015
- Weizmann Institute of Science - Rehovot, Israel Jun 2014
- IMPA - Rio de Janeiro, Brazil Aug 2013
- University of Maryland - College Park, USA Feb 2013
- Ohio State University - Columbus, USA Sep 2009 - Feb 2010

JOURNAL REFEREE

- Inventiones Mathematicae
- Journal of the European Mathematical Society
- Geometric and Functional Analysis
- Annales scientifiques de l'École normale supérieure
- Proceedings of the London Mathematical Society
- Transactions of the American Mathematical Society
- Journal of the London Mathematical Society
- Communications in Mathematical Physics
- Discrete and Continuous Dynamical Systems
- Ergodic Theory and Dynamical Systems
- Journal of the Institute of Mathematics of Jussieu
- Acta Mathematica Sinica

- Stochastics and Dynamics
- Combinatorics, Probability and Computing
- Electronic Journal of Probability
- Electronic Journal of Combinatorics
- Bulletin of the Brazilian Mathematical Society
- Qualitative Theory of Dynamical Systems

STUDENTS AND ADVISING

- | | |
|---|-----------------|
| ◦ João Guilherme Costa Viana, Master in Mathematics, USP, Brazil | Feb 26 - now |
| ◦ Theo Lott, Scientific Initiation, USP, Brazil | Aug 25 - now |
| ◦ Juan Carlos Mongez Duran, Postdoctoral Fellow, UFC, Brazil | May 24 - now |
| ◦ Arthur Karsburg, Scientific Initiation, USP, Brazil | Aug 25 - Feb 26 |
| ◦ Kambiz Moghaddamfar, Postdoctoral Fellow, UFC, Brazil | Sep 24 - Aug 25 |
| ◦ João Paulo Nascimento, PhD in Mathematics, UFC, Brazil
<i>Symbolic dynamics for non-uniformly hyperbolic flows in high dimension</i> | Nov 20 - Jul 25 |
| ◦ João Guilherme Costa Viana, Scientific Initiation, UFC, Brazil | Aug 23 - Feb 25 |
| ◦ Jônatas Marinho Santos Junior, Master in Mathematics, UFC, Brazil
<i>Teoria de Ramsey Ergódica e a Conjectura $B + B + t$</i> | Aug 22 - Jan 25 |
| ◦ Breno Cavalcante de Sousa, Master in Mathematics, UFC, Brazil
<i>Álgebra de Pinsker e a Propriedade K</i> | Mar 22 - Jun 24 |
| ◦ Alisson da Conceição Pereira, Master in Mathematics, UFC, Brazil
<i>Unicidade de estados de equilíbrio</i> | Mar 22 - Jun 24 |
| ◦ Luis Pedro Pineyrúa Ramos, Postdoctoral Fellow, UFC, Brazil | Sep 22 - Jan 24 |
| ◦ Matheus Barros da Silveira, Master in Mathematics, UFC, Brazil
<i>Urnas de Pólya em hipergrafos</i> | Mar 22 - Jun 23 |
| ◦ Ernandes Ferreira do Nascimento Neto, Master in Mathematics, UFC, Brazil
<i>Desigualdade de Ruelle</i> | Jun 21 - Jun 23 |
| ◦ Marco Antonio Lopez Ruelas, Postdoctoral Fellow, UFC, Brazil | Oct 21 - Dec 22 |
| ◦ Matheus Barros da Silveira, Scientific Initiation, UFC, Brazil | Aug 19 - Feb 22 |
| ◦ Kennedy Correa da Silva Junior, Scientific Initiation, UFC, Brazil | Aug 19 - Aug 21 |
| ◦ João Paulo Nascimento, Master in Mathematics, UFC, Brazil
<i>Partições de Markov para automorfismos lineares hiperbólicos do toro</i> | Jul 19 - Oct 20 |
| ◦ Ermerson Rocha Araujo, Postdoctoral Fellow, UFC, Brazil | Aug 18 - Jul 21 |
| ◦ Gustavo Penaforte Brito, Scientific Initiation, UFC, Brazil | Aug 18 - Jul 19 |
| ◦ Davi Araujo Chaves Souza, Scientific Initiation, UFC, Brazil | Aug 18 - Jul 19 |

BOOKS

- *Olimpíadas Cearenses de Matemática de 2014 a 2024*. SBM, 218 pages. ISBN: 9788583372530
- *Introdução aos Sistemas Dinâmicos*. SBM, 2025, 178 pages. ISBN: 9788583372554
- *Alice no País da Dinâmica: Sistemas Dinâmicos Para o Ensino Médio*. LF Editorial, 2025, 116 pages, ISBN-13: 978-6555634150
- *Treinamento Olímpico*, with C. Augusto, S. Feitosa, B. Holanda and C. Thiago, SBM, 2020, 410 pages. ISBN: 978-65-990395-2-2
- *Treinamento Cone Sul, Volume 2*, with S. Feitosa, B. Holanda and C. Thiago, Realce Editora, 2010, 174 pages. ISBN: 978-85-89105-37-8
- *Treinamento Cone Sul, Volume 1*, with C. Augusto, S. Feitosa and B. Holanda, Realce Editora, 2007, 114 pages. ISBN: 858921555-5

EVALUATION AND REVIEW

- Israel Science Foundation (ISF), Evaluation of Grant Proposal, Israel 2022, 2025
- FONDECYT, Evaluation of Grant Proposal, Chile 2019, 2022, 2023, 2024
- Research Foundation Flanders (FWO), Evaluation of Grant Proposal, Belgium 2020

LANGUAGES

Portuguese (native), English (fluent), Spanish (fluent), French (intermediate).

REFERENCES

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Omri Sarig
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PUBLICATION LIST

29. *Superdiffusive central limit theorems for geodesic flows on nonpositively curved surfaces*, with C. Matheus and I. Melbourne. 34 pages, available at <https://arxiv.org/abs/2512.11051>
28. *Uniqueness of the measure of maximal entropy for geodesic flows on surfaces*, with D. Obata and M. Poletti. 14 pages, available at <https://arxiv.org/abs/2511.22022>
27. *Symbolic dynamics for non-uniformly hyperbolic flows in high dimension*, with J.C. Mongez and J.P. Nascimento. 82 pages, available at <https://arxiv.org/abs/2509.09050>
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