Eduardo V. Sodré

Curriculum Vitae

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2023 - PhD in Mathematics, Brown University, Providence, USA

2019 - 2022 Bachelor's Degree in Mathematics, Mathematics and Statistics Institute of the University of São Paulo

(IME-USP), São Paulo, Brazil Weighted average: 9.8/10, 1st in class

Undergraduate Thesis: Introduction to Riemannian Geometry

Advisor: Prof. Claudio Gorodski

Publications and Preprints

- 2023 Revisiting Arnold's topological proof of the Morse index theorem. (arxiv: math.DG/2307.00655)
- 2021 Classification of linear operators satisfying $(Au,v)=(u,A^rv)$ or $(Au,A^rv)=(u,v)$ on a vector space with indefinite scalar product (with V. S. Borges, I. Kashyba, V. V. Sergeichuk & A. Zaidan). Linear Algebra and its Applications, v. 611, p. 118-134, 2021. https://doi.org/10.1016/j.laa.2020.12.005

Scientific Initiation Projects

- 2021 2022 Introduction to Riemannian Geometry (FAPESP project 2021/10816-4)
 - 2021 Introduction to Smooth Manifolds (CNPq)
- 2019 2020 Introduction to Discrete Dynamical Systems (PUB and CNPq)
 - 2018 Axiomatic Synthetic Geometry (PIC Jr.)

Grants and Scholarships

- 2021 2022 FAPESP Undergraduate Research Scholarship (project 2021/10816-4)
- 2019 2021 CNPq Undergraduate Research Scholarship
 - 2020 IMPA Summer Program Scholarship
 - 2019 PUB Undergraduate Research Scholarship

Prizes and Awards

2023 Institute of Mathematics and Statistics Best Student Prize, IME-USP, Class of 2022

Olympiads and Competitions

International Mathematics Competition (IMC), UCL

- 2022 First Prize
- 2021 First Prize
- 2020 Second Prize

Competencia Iberoamericana Interuniversitaria de Matemáticas (CIIM), UAN

- 2022 Gold Medal
- 2020 Silver Medal

Brazilian Universitary Mathematics Olympiad (OBMU), SBM & IMPA

- 2023 Silver Medal
- 2022 Gold Medal
- 2020 Silver Medal
- 2019 Silver Medal

Elon Lages Lima Mathematics Competition, SBM & IMPA

- 2022 Gold Medal
- 2021 Gold Medal
- 2020 Silver Medal

	Other Activities					
	Invited Talks					
August 2023	Geometry Research Group Seminar at IME-USP					
	Summer Courses					
2021	Introduction to Complex Dynamics, IMPA, Masters Level Course, A+					
2020	Introduction to Number Theory, IMPA, Masters Level Course, A+					
	Minicourses					
2023	Geometry of Painlevé Equations, 34th Brazilian Colloquium of Mathematics					
2022	Introduction to Characteristic Classes, IME-USP					
2021	A Gentle Introduction to the Topology and Geometry of 3-manifolds, 33rd Brazilian Colloquium of Mathematics					
	Seminar Groups					
2022	Geometry Research Group Seminar at IME-USP					
2022	Quasiconformal Maps and Teichmüller Theory, online					
2020 – 2022	Organizer and presenter of the S4 Student Seminar Group, IME-USP					
2021	Exploring the Mandelbrot Set, reading The Orsay Notes, IMPA, doctoral level reading course, A+					
2019 – 2020	Matrix Problems and Quiver Representations in Linear Algebra, IME-USP					
2019	Aleph 1 Student Seminar on Set Theory, IME-USP					
	Teaching and Tutoring					
2021	Volunteer TA in "Introduction to Complex Analysis", IME-USP					
	Events Attended					
2023	34th Brazilian Colloquium of Mathematics (CBM), IMPA					
2022	Complex Dynamics in the Tropics , <i>IMPA</i> , Rio de Janeiro, Brazil Financial support by CNPq and FAPERJ					
2022	6th TWAS Young Affiliate Network Thematic Workshop in Mathematics. IME-USP. São Paulo, Brazil					

2022 **6th TWAS Young Affiliate Network Thematic Workshop in Mathematics**, *IME-USP*, São Paulo, Brazil Local organizing committee

2022 **São Carlos Conference in Geometry**, *ICMC-USP*, São Carlos, Brazil Poster "The Sasaki Metric and the Geodesic Flow"

2021 33rd Brazilian Colloquium of Mathematics (CBM), online

2020 International Symposium of Scientific Initiation and Technology of USP, online Poster "A Generalization of the Theorem on Tangent Bifurcations"

Languages

Portuguese Native

English Fluent TOEFL iBT Score: 118/120, 2022