Eduardo V. Sodré

Curriculum Vitae

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🖰 evsmath.github.io/

Education

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

Publications and Preprints

2023 E. V. Sodré, *Revisiting Arnold's topological proof of the Morse index theorem.* (arxiv: math.DG/2307.00655)

2021 Senoguchi Borges, Victor; Kashuba, Iryina; Sergeichuk, Vladimir V.; Ventilari Sodré, Eduardo; Zaidan, André. *Classification of linear operators satisfying $(Au, v) = (u, A^r v)$ or $(Au, A^r v) = (u, v)$ on a vector space with indefinite scalar product.* 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)
Prof. Claudio Gorodski

2021 **Introduction to Smooth Manifolds** (CNPq)
Prof. Claudio Gorodski

2019 – 2020 **Introduction to Discrete Dynamical Systems** (PUB and CNPq)
Prof. Sonia Garcia

2018 **Junior Scientific Initiation Program (PIC Jr.)**, *National University of Brasília (UnB)*
Prof. Ricardo Ruviaro

Grants and Scholarships

2021 – 2022 **FAPESP Undergraduate Research Scholarship, project 2021/10816-4**
Support Foundation to the Research of the State of São Paulo (FAPESP)

2019 – 2021 **CNPq Undergraduate Research Scholarship**
Brazilian National Council for Scientific and Technological Development (CNPq)

2020 **IMPA Summer Program Scholarship**
Instituto Nacional de Matemática Pura e Aplicada (IMPA)

2019 **PUB Undergraduate Research Scholarship**
Unified Scholarship Program (PUB)

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, *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

Extracurricular Activities

Summer Courses

2021 **Introduction to Complex Dynamics**, *IMPA*, Masters Level Course, A+
Prof. Luciana Lomonaco

2020 **Introduction to Number Theory**, *IMPA*, Masters Level Course, A+
Prof. Carlos Gustavo Moreira

Minicourses

2023 **Geometry of Painlevé Equations**, *34th Brazilian Colloquium of Mathematics*
Prof. Frank Loray

2022 **Introduction to Characteristic Classes**, *IME-USP*
Prof. Mateus Moreira de Melo

2021 **A Gentle Introduction to the Topology and Geometry of 3-manifolds**, *33rd Brazilian Colloquium of Mathematics*
Profs. André Salles de Carvalho & Rafal Siejakowski

Seminar Groups

2022 **Quasiconformal Maps and Teichmüller Theory**, *online*
Profs. Luciana Lomonaco & Lucas Oliveira

2020 – 2022 **Organizer and presenter of the S4 Student Seminar Group**, *IME-USP*
Student-run Seminar

2021 **Exploring the Mandelbrot Set, reading The Orsay Notes**, *IMPA*, doctoral level reading course, A+
Prof. Luciana Lomonaco

2019 – 2020 **Matrix Problems and Quiver Representations in Linear Algebra**, *IME-USP*
Prof. Vladimir Sergeichuk

2019 **Aleph 1 Student Seminar on Set Theory**, *IME-USP*

Tutoring

2021 **Volunteer TA to the Course "Introduction to Complex Analysis"**, *IME-USP*
Prof. Daniela Vieira

Events Attended

2023 **34th Brazilian Colloquium of Mathematics (CBM)**, *IMPA*

2022 **Complex Dynamics in the Tropics**, *IMPA*, Rio de Janeiro, Brazil
Financial support by CNPq and FAPERJ

2022 **6th TWAS Young Affiliate Network (TYAN) 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"

2018 **International Congress of Mathematicians (ICM)**, *Rio De Janeiro, Brazil*

Languages

| Portuguese | Native |
| English | Fluent | TOEFL iBT Score: 118/120, 2022 |