

Lorenzo Andreaus

Curriculum Vitae

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Born 03 August 2000, Brazilian/Austrian citizen

Education

- 2023 – current **Ph.D. in Mathematics**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG)*, Paris, France
Thesis project: “**Families of abelian varieties and applications**”.
Supervisors: Marc Hindry – Université Paris Cité and Cyril Demarche – Université de Sorbonne
- 2022 – 2023 **Master 2 in Mathematics**, *M2 Analysis, Number Theory and Geometry*, Institute de Mathématique d’Orsay, Université Paris-Saclay, Orsay, France
GPA: 14.89/20.00
Courses Attended:
Crash Course: Differential Manifolds and Differential Forms
Crash Course: Commutative Algebra, Sheaves, Elements of Homological Algebra
Algebraic Geometry: Schemes and Cohomology
Number Theory
Étale Cohomology and Brauer Group
Master’s Thesis: Study of the Paper “**Equidistribution in families of abelian varieties and uniformity**”, by Lars Kühne
Supervisor: Marc Hindry, Université Paris Cité
- 2018 – 2021 **Bachelor in Mathematics**, *Institute of Mathematics and Statistics of the University of São Paulo (IME-USP)*, São Paulo, Brazil
GPA: 9.9/10.0.
Bachelor thesis: “**Algebraic Number Theory and Introduction to Class Field Theory**”, published in the Digital Library of Academic Works at the University of São Paulo
Available in Portuguese on <https://bdta.abcd.usp.br/item/003064080>
Supervisors: Vitor de Oliveira Ferreira and Lucia Satie Ikemoto Murakami

Scholarships

- 2022 – 2023 **Sophie Germain Scholarship**, Fondation Mathématique Jacques Hadamart (FMJH).
- 2018 – 2021 **PICME Scholarship**, Brazilian National Council for Scientific and Technological Development (CNPq.)
- 2012 – 2018 **PIC-Jr. Scholarship**, Brazilian National Council for Scientific and Technological Development (CNPq.)

Conferences, Workshops and Extracurricular Courses

- 2025 Workshop **Rencontre de théorie des nombres EThéN** at CIRM, Marseille
- 2025 Conference **Algebraic and geometric methods for Diophantine problems** at University of Pisa
- 2025 Conference **33èmes Journées Arithmétiques** at University of Luxembourg, Esch-sur-Alzette
- 2025 Conference **Arithmetic, Geometry, Cryptography and Coding Theory** at CIRM, Marseille
- 2024 Workshop **Instructional workshop on rational points** at University of Groningen
- 2024 Workshop **Rencontre de théorie des nombres EThéN** at CIRM, Marseille
- 2024 Conference **XXVII Escola de Álgebra** at Institute of Mathematics and Statistics of the University of São Paulo (IME-USP)
- 2024 Workshop **Arizona Winter School (AWS): Abelian Varieties** at University of Arizona, Tucson

- 2023 Course **Abelian varieties over finite fields** at Preliminary Arizona Winter School (PAWS)
Professor: Lassina Dembele
- 2020 Summer School **Introduction to Number Theory** at IMPA's Summer Program, Grade: A+
Professor: Carlos Gustavo Tamm de Araújo Moreira
- 2018 Conference **Algebra: celebrating Paulo Ribenboim's ninetieth birthday**, at Institute of Mathematics and Statistics of the University of São Paulo (IME-USP)

Teaching Assistantships

- 2025 **Algebra and Analysis for Physics (L2 Physique)**, at Université Paris Cité, Paris, France
Professor: Jaouad Sahbani
- 2025 **Office and internet tools (L1 MIASHS)**, at Université Paris Cité, Paris, France
Coordinator: Adrien Brochier
- 2024 **Mathematics Tutoring (L1 MATHS)**, at Université Paris Cité, Paris, France
Coordinator: Matteo Ruggiero

Experience

- 2021 Participation at the **University of São Paulo's International Symposium of Undergraduate Research (SIICUSP)**, promoted by University of São Paulo (USP)

Prizes and Grants

- 2021 Gold medal at the **International Mathematical Competition for University Students (IMC)**, University College London
- 2020 Silver medal at the **Competencia Iberoamericana Interuniversitaria de Matematicas (CIIM)**, UAN
- 2014 – 2021 4 Silver medals and 4 bronze medals at the **Brazilian Mathematical Olympiad (OBM)**, SBM & IMPA
- 2021 – 2022 1 Silver medal and 1 bronze medal at the **Elon Lages Lima Mathematical Competition**, AOBM
- 2011 – 2017 5 Gold medals and 2 bronze medals at the **Brazilian Mathematical Olympiad for Public Schools (OBMEP)**, IMPA

Undergraduate Research Projects

- 2020 **Introduction to PI (Polynomial Identity) Theory and Noncommutative Algebra.**
Under supervision of Professor Vitor de Oliveira Ferreira and Professor Lucia Satie Ikemoto Murakami
- 2019 **Determinants, Tensor Products and Quaternion Algebras**
Under supervision of Professor Vitor de Oliveira Ferreira and Professor Lucia Satie Ikemoto Murakami
- 2018 **Combinatorics in Number Theory and Topics on Elementary Number Theory**
Under supervision of Professor Vitor de Oliveira Ferreira and Professor Lucia Satie Ikemoto Murakami

Languages

Portuguese	Native
English	Advanced
French	Advanced
Spanish	Intermediate
Italian	Intermediate
German	Intermediate

Other Interests

- Music I grew up in a house full of music, and since I was little I wanted to play the piano. I took classical piano classes from 2009 to 2017, and I continue studying by myself since then. More recently I also became interested in music theory. I read books and watch video lessons about this subject. I composed a few piano pieces, and hope to continue composing in the future.
- Literature I love reading, which motivated me to do a discipline on chronicles and tales during my bachelor's degree. I also write some poems from time to time.