

EDUCATION AND TRAINING

[09/2023 – 02/2026]

Master's Degree in Pure Mathematics

University of Cagliari

City: Cagliari | **Country:** Italy | **Final grade:** 110 Cum Laude | **Thesis:** Combinations of Hodge and Chern numbers of Kähler and complex manifolds - Supervisor: Dr. Giovanni Placini

Winner of the "Excellence Program".

Courses and exams:

- Differential Geometry
- Complex Analysis
- Geometric Modeling and 3D Printing
- Relativity
- Galois Theory and Homological Algebra
- Algebraic Topology
- Cohomology
- Riemannian Geometry
- Characteristic Classes
- Mathematical Logic
- History and Epistemology of Mathematics
- PhD Course: Introduction to Kähler Geometry

GPA: 29.38/30

[01/10/2025 – 30/11/2025]

Erasmus

Leibniz University of Hannover

City: Hannover | **Country:** Germany

I worked on my Master's Thesis under the supervision of Professor Stefan Schreieder.

In particular, I reviewed topics in algebraic topology and complex geometry and I developed a Python code to compute characteristic numbers of complete intersections.

[09/2020 – 09/2023]

Bachelor's Degree in Mathematics

University of Cagliari

City: Cagliari | **Country:** Italy | **Final grade:** 110 Cum Laude

Courses and exams:

- Algebra 1
- Mathematical Analysis 1
- Elements of Computer Science
- Physics 1
- Geometry 1 (Linear Algebra)
- Geometry 2 (Euclidean Geometry)
- Statistical Mathematics Laboratory
- Mathematical Analysis 2
- Numerical Analysis
- Probability
- Physics 2
- Geometry 3 (General Topology)
- Mechanics 1
- Algebra 2
- Mathematical Analysis 3
- Optimization Models
- Topological Groups
- Geometry 4 (Curves and Surfaces Geometry)
- Mechanics 2
- Introduction to Theory of Topological Vector Spaces
- Statistics

GPA: 29.27/30

WORK EXPERIENCE

University of Cagliari

City: Cagliari | **Country:** Italy

[03/2026 – Current] **University teaching assistant**

Tutor of the course “Geometry 2” in the bachelor degree in Mathematics

University of Cagliari

City: Cagliari | **Country:** Italy

[10/2024 – 02/2025] **University teaching assistant**

Tutor of the course “Discrete Mathematics” in the bachelor degree in Applied Computer Science and Data Analytics

[09/2024 – Current] **University student assistant (volunteer)**

- Assisted with student orientation activities for incoming students
- Contributed to outreach and public engagement initiatives, including events such as the *European Researchers’ Night*
- Promoted university programs and participated in dissemination activities aimed at prospective students

University of Cagliari

City: Cagliari | **Country:** Italy

[02/2024 – 09/2024] **Students assistant**

Supported faculty in organizing classes, seminars, and student-related activities

CONFERENCES AND SEMINARS

[08/06/2026 – 12/06/2026] **Kähler Geometry Workshop in Sardinia** Costa Rei

[17/09/2025 – 19/09/2025] **Recent advances in complex and Kähler geometry** Cagliari

[08/09/2025 – 12/09/2025] **Workshop on cohomological and metric aspect of Hermitian and almost complex manifold**
Budapest

[19/02/2025 – 21/02/2025] **Complex Geometry at Aarhus University** Aarhus

Grant from the Aarhus University to participate

[24/06/2024 – 28/06/2024] **Complex and Symplectic Geometry Workshop** Cagliari

INVITED TALKS AND SEMINARS

Ciclo di Seminari Geometria Differenziale e Topologia - Cagliari, 10/03/2026

Seminar: “On topological and homotopy invariant combinations of Hodge and Chern numbers”

PROJECTS

[03/2026 – Current] **Reading group: The Hirzebruch-Riemann-Roch Theorem**

[03/2026 – Current] **Reading group: Rational Homotopy Theory**

SKILLS

Basic knowledge of Python programming language | Basic knowledge of Rstudio | Good knowledge of LaTeX | Good knowledge of MATLAB | Good knowledge of Wolfram Mathematica

LANGUAGE SKILLS

Mother tongue(s): Italian **Other language(s):** English

HONOURS AND AWARDS

[11/02/2026]

"A tu per tu con una matematica" Awarding institution: University of Cagliari

First place in the student contest "A tu per tu con una matematica". The contest aimed at raising awareness among students to the gender problem in Mathematics.