

Marco Belli

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🌐 bellimarco.github.io

Education

- 2024-Present **MSc, Mathematics**, ETH Zürich.
- Fall 2024 Exchange semester: University of Texas at Austin.
- 2021-2025 **BSc, Mathematics**, ETH Zürich.

Research Interests

Complex and algebraic geometry, algebraic curves, Abelian varieties and the moduli spaces related to them. Number theory and applications to cryptography.

Works

- Master's thesis: The intermediate Jacobian of the cubic threefold (*draft*) - [website](#).
- The isomorphism to Čech cohomology as evaluation on the Čech nerve (2025) - [arXiv:2510.21486](#).
- Getzler-Kapranov graph complex cohomology computations in weight 13 (2025) - [arXiv:2507.08995](#).
- Riemann Surfaces as an elementary theory for the solvability of analytic equations (2025) - [website](#).
- Bachelor's thesis: On the construction of Hilbert and Quot schemes (2024) - [website](#).

Academic Experience

- Fall 2025 Exam correction, Linear Algebra and Complex Analysis, ETH Zürich.
- Spring 2025 Exam correction, Topology and Basic Structures, ETH Zürich.
- Spring 2025 Teaching assistant, Algebra II, ETH Zürich.
- 2024-2025 Private tutoring, various subjects, EduQuant platform.
- Fall 2024 Exam correction, Complex Analysis, ETH Zürich.
- Spring 2024 Teaching assistant, Analysis II, ETH Zürich.
- Spring 2023 Teaching assistant, Mathematics II, ETH Zürich.

References

Thomas Willwacher, Professor, ETH Zürich, thomas.willwacher@math.ethz.ch.
Supervisor of my Getzler-Kapranov computations project.

Bernd Siebert, Professor, University of Texas at Austin, siebert@math.utexas.edu.
Instructor of a moduli spaces seminar I attended at UT Austin.

Samir Canning, Hermann-Weyl-Instructor, ETH Zürich, samir.canning@math.ethz.ch.
Supervisor of my bachelor's and master's theses.

Alessandro Giacchetto, Hermann-Weyl-Instructor, ETH Zürich, alessandro.giacchetto@math.ethz.ch.
Supervisor of my reading course on complex geometry, based on Huybrechts' textbook.

Attended Conferences

- Sep 11-19 2025 Nairobi Workshop in Algebraic Geometry, University of Nairobi, Kenya.
- Jun 9-13 2025 Harmonies in Moduli Spaces, Università Roma Tre, Italy.

Internships

- Sep-Nov 2025 Dedan-Kimathi University of Technology, Nyeri, Kenya. Department of robotics and mechatronics.
Tasks: assisting students with various final-year robotics projects.

Hard Skills

Programming: C++, Python, SQL, Processing, Javascript, basic client and server side.

Software: Mathematica, Maple, Lean, SageMath, Matlab/Simulink, Siemens TIA, Fusion360.

Robotics and mechatronics: kinematics and dynamics, ROS, Raspberry Pi ecosystems, integrating microcontrollers with sensors and actuators, control systems, basic electrical engineering.

Other Interests

Building robots and DIY projects (github portfolio: [bellimarco](#)).

History of Science, Physics, Logics, Computer Formalization.

Literature, Languages, Traveling, Hiking.

Personal Information

- Birth details 2001, Lugano
- Citizenship Swiss, Italian
- Languages Italian, Russian (native), English (C1), German, French (fluent)