

FABRIZIO CURTO

CURRICULUM VITAE

March 2026

Italian, born in Moncalieri (Torino) on 01/02/2001. Pronouns: he/him.

PROFESSIONAL ADDRESS Université Côte d'Azur, Laboratoire J. A. Dieudonné,
28 avenue Valrose, 06108 Nice Cedex 2, France.
Room 617, Tel. +33 (0) 4 89 15 05 57.
fabrizio.curto@univ-cotedazur.fr
[Personal web page](#)

EDUCATION AND TRAINING

EDUCATION

- 10/2025–present **PhD Student**, Université Côte d'Azur, Nice (France), under joint supervision of Prof. Andreas H\"oring (Université Côte d'Azur) and Prof. Ana-Maria Castravet (Université de Versailles).
- 09/2022–10/2024 **M.Sc in Mathematics**, Università degli studi di Torino, Turin (Italy). Thesis: *Resolution of Singularities of Algebraic Curves and Surfaces*, supervised by Prof. Cinzia Casagrande.
- 09/2019–06/2025 **Scuola di Studi Superiori "Ferdinando Rossi" (SSST)**, Università degli studi di Torino, Turin (Italy). Thesis: *Irrationality of Smooth Quartic Threefolds*, supervised by Prof. Olivier Benoist (École Normale Supérieure - PSL).
- 09/2019–07/2022 **B.Sc in Mathematics**, Università degli studi di Torino, Turin (Italy). Thesis: *The Riemann-Roch Theorem for Smooth Projective Curves*, supervised by Prof. Anna Fino.
- 09/2014–06/2019 **High School Diploma** (Liceo Classico Europeo), Convitto Nazionale Umberto I, Torino (Italy).

INTERNATIONAL MOBILITY

- 02/2025–03/2025 École Normale Supérieure (ENS-PSL), Paris (France), *pensionnaire étranger* during a research stay within the ENS-SSST exchange programme.
- 04/2024–09/2024 Universität Augsburg, Augsburg (Germany), *Erasmus exchange* during M.Sc studies.

ATTENDED CONFERENCES, WORKSHOPS AND SCHOOLS

- *Research School: Cox Rings and Applications*, Marseille (France), March 2026.
 - *Final Conference of the ANR FanoHK Project*, Toulouse (France), December 2025.
 - *Workshop: Positivity and Hyperbolicity in Lisbon*, Lisbon (Portugal), June–July 2025.
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RESEARCH INTERESTS

My research field is algebraic geometry, in particular **birational and complex algebraic geometry**. My PhD thesis project concerns the classification of **terminal degenerations of \mathbb{P}^4** , and it is situated within the framework of the Minimal Model Program and Moduli Theory. The problem has recently been solved in dimension three by Prof. H\"oring, and the methods and results we aim to use are related to Prof. Castravet's work on higher Fano varieties.

TEACHING

TEACHING ASSISTANT

2024/2025 *Geometry 1*, Università di Torino (B.Sc in Mathematics). Weekly in-class exercise sessions and individual support for students (40 hours). Coordinator: Prof. Mario Valenzano.

UNIVERSITY TUTOR

2023/2024 *Geometry 1*, Università di Torino (B.Sc in Mathematics). Weekly in-class exercise sessions and individual support for students (80 hours). Coordinator: Prof. Mario Valenzano.

2022/23–2023/24 *Geometry and Linear Algebra 1*, Università di Torino (B.Sc in Physics). Weekly in-class exercise sessions (100hrs over two academic years). Coordinator: Prof. Luciano Mari.

SCHOOL MATHEMATICS AND PHYSICS SUBSTITUTE TEACHER

12/2024 Liceo Classico Statale *G.F. Porporato*, Pinerolo (Italy), 20 hrs.

05/2025–06/2025 Istituto di Istruzione Superiore *G. Peano*, Torino (Italy), 36 hrs.

HONOURS

10/2025–present Marie Skłodowska-Curie Fellowship in the MSCA COFUND Doctoral Programme *MathPhdInFrance*, coordinated by the Fondation Sciences Mathématiques de Paris (FSMP) – DOI: [10.3030/101126554](https://doi.org/10.3030/101126554).

02/2025–03/2025 SSST scholarship supporting my exchange at ENS-PSL.

10/2024 *Honourable mention (menzione accademica)* at Master's graduation.

2019–2023 Scholarship from the Italian Institute of National Social Security (INPS) based on academic merit and family income.

2019–2024 Admission to the SSST, with university tax exemption, free housing, and an annual scholarship.

OUTREACH

PUBLICATION OF POPULAR SCIENCE ARTICLES

I published two articles in *Il Chiasmo*, a magazine by the *Istituto della Enciclopedia Italiana Treccani*:

- *L'indovinello degli isolani dagli occhi blu* – presenting an exercise on the principle of induction, inspired by my experience as a tutor for linear algebra courses. Published on 17 May 2024 ([Link](#)).
- *Libero arbitrio: una questione scientifica* – discussing the philosophical problem of free will from a scientific perspective. Published on 17 June 2021 ([Link](#)).

LANGUAGES

Italian (native), **English** (fluent-C2), **German** (proficient-C1), **French** (beginner-A2).