

Thomas Agugliaro

Curriculum Vitae

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Education

- 2023–2026 **PhD in Mathematics**, *Université de Strasbourg*, Strasbourg.
Title: *Standard conjecture of Hodge type for abelian varieties*,
Advisor: Giuseppe Ancona
- 2022–2023 **Research internship**, *Université de Strasbourg*, Strasbourg.
- 2021–2022 **Master of Mathematics**, *Sorbonne Université*, Paris.
- 2019–2023 **Undergraduate and master studies**, *École Normale Supérieure*, Paris.
- 2017–2019 **Preparatory class**, *Lycée Kléber*, Strasbourg.

Papers and preprints

- 2025 *Standard conjecture of Hodge type for powers of abelian varieties*, preprint
- 2024 *Abelian varieties satisfying the standard conjecture of Hodge type*, accepted for publication in *Documenta Mathematica*

Talks in conferences

- October 2025 Quadratic forms and algebraic cycles, Villetaneuse, France
- July 2025 Journées Arithmétiques, Belval, Luxembourg
- May 2025 Hodge theory in a broad sense, Stockholm, Sweden
- January 2025 Meeting of the project ANR Cyclades, Strasbourg, France
- September 2024 ETHÉN summer school 2024, Marseille, France
- July 2024 CAVARET 2024, Barcelona, Spain
- July 2023 Journées Arithmétiques, Nancy, France

Talks in seminars

- November 2024 Number theory seminar, Bordeaux, France
- November 2024 Number theory seminar, Toulouse, France
- October 2023 Rhine Seminar on Transcendence, Freiburg, Germany

March 2023 Algebraic geometry seminar, Strasbourg, France

Learning seminars

- November 2025 "Introduction to Shimura varieties", IRMA
- November 2025 "Voevodsky motives and Steenrod operations", IRMA
- May 2025 "Derived rings and derived affine schemes", IRMA
- March 2025 "K3 surfaces", IRMA
- December 2024 "End of the proof of Weil I", IRMA
- September 2024 "Presentation of the Weil conjectures and ℓ -adic sheaves", IRMA
- June 2024 "Intrinsic GIT following Alper–Halpern-Leistner–Heinloth", IRMA
- May 2024 " p -adic Hodge theory", IRMA
- October 2023 "Perverse sheaves", IRMA
- June 2023 "Mixed Hodge structures for singular varieties", Freiburg
- April 2023 "Computing ∞ -categorical colimits as homotopy colimits", IRMA
- November 2022 "Function-Sheaf dictionary and Kloosterman sums", IRMA
- October 2022 "Condensed sets", IRMA
- November 2021 "Rationally connected varieties and rationally connected quotients", ENS
- June 2021 "Rational maps, rational curves", ENS

Teaching

- 2023–2026 Teaching at University of Strasbourg (64h per year).
- 2022–2023 Oral examinations for first year university students.

Mathematical outreach

- 2025–2026 *TFJM*²: co-leader of a team of highschoolers for the *TFJM*² contest, in which they present their work on elementary open problems.
- 2024–2026 *Cercle mathématique de Strasbourg*: Organizer of a math club for highschoolers, gathering each week in the university.
- 2022–2025 *Parcours Enig'maths*: I ran a booth offering math puzzles to a broad audience: from elementary school children to adults.
- 2024–2025 *Maths en jeans*: Research workshops for middle-schoolers.

Computer skills

C++, PYTHON, OCAML, L^AT_EX, Linux

Languages

French, English, Italian

Interests

- Bouldering
- Running