

References

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Andrea Ricolfi aricolfi@sissa.it

Education

- 10/2018 – 10/2023 **Master in Mathematics (100/100 cum Laude)**, *Scuola Normale Superiore*, Pisa
10/2021 – 10/2023 **Master in Mathematics (110/110 cum Laude)**, *Università di Pisa*, Italy
10/2018 – 09/2021 **Bachelor in Mathematics (110/110 cum Laude)**, *Università di Pisa*, Italy
2013 – 2018 **Diploma di Maturità (100/100 e Lode)**, *Liceo Fermi di Cantù*, Italy

Projects

- October 2023-Ongoing **PhD in Geometry and Mathematical Physics, SISSA**
I am a PhD candidate in the doctoral program "Geometry and Mathematical Physics". I am currently working on Quot schemes on surfaces, under the supervision of Alina Marian (ICTP) and Andrea Ricolfi (SISSA). I am broadly interested in moduli spaces of sheaves, in their geometric and enumerative aspects.
- Fall 2023 **Master thesis, Università di Pisa**
My master thesis, under the supervision of Prof. Francesco Sala, focused on the study of the Hilbert scheme of points of a projective smooth surface and the connection with representation theory, studying an article by Negut and Maulik, with title "Lehn's formula in Chow and Conjectures of Beauville and Voisin"
- Spring 2022 **Fourth year Colloquio, Scuola Normale Superiore**
Presentation with the title "An explicit isomorphism between the Brauer Group of \mathbb{Q}_p and \mathbb{Q}/\mathbb{Z} , via the theory of F -isocrystals", under the supervision of Prof. Szamuely.
- 09/2021 **Bachelor thesis, Università di Pisa**
Under the supervision of Prof. Francesco Sala, I studied the fundamentals of quiver representations, with the aim of presenting a complete proof of Gabriel's Theorem.

Teaching

- Winter 2025 **Algebra, ICTP, 16 h**
Teaching assistant for Lothar Göttsche's course in the ICTP Pre-PhD Diploma Programme, an intensive programme for talented students from developing countries. Topics included group theory, ring theory, and Galois theory.

Outreach

- May 2026 **Maker Faire, Trieste**
Volunteered at the ICTP booth, designing games and outreach activities to communicate mathematical concepts to a broad audience.

Attendance at Conferences

- December 2025 **Conférence finale de l'ANR FanoHK, Université de Toulouse**
September 2025 **PRAGMATIC, Università di Catania**
March 2025 **Enumerative geometry, representation theory, and physics, Kavli IPMU**
November 2024 **Modern Methods in Moduli, University of Luxembourg**

- September 2024 **School on Deformation Theory IV**, *Sapienza Università di Roma*
- September 2024 **GAP (Séminaire Itinérant de Géométrie et Physique) Edition XIX: Moduli spaces and higher structures**, *Sapienza Università di Roma*
- May 2024 **The Geometry of Hilbert Schemes of Points**, *Levico Terme*
- January 2024 **Fano and Hyperkähler varieties in Genova**, *Università di Genova*

Contributed talks and Posters

- 05/11/26 **String and dilaton equations**, *Algebraic Geometry Seminar in SISSA*
- 02/02/26 **Derived categories of cubic fourfolds**, *Algebraic Geometry Seminar in SISSA*
- 03/24/25 **Diagonal, inertia and automorphisms. Algebraic and Deligne–Mumfords stacks, algebraic spaces**, *Algebraic Geometry Seminar in SISSA*
- 10/31/24 **On some irreducibility questions for Quot schemes and moduli spaces of semistable sheaves on surfaces, II**, *ICTP/SISSA Quot seminar*
- 10/24/24 **On some irreducibility questions for Quot schemes and moduli spaces of semistable sheaves on surfaces, I**, *ICTP/SISSA Quot seminar*
- 10/15/24 **Irreducibility of some Quot schemes on a smooth curve**, *ICTP/SISSA Quot seminar*
- 12/9/24 **On the Beauville-Voisin conjecture**, *Mini Talk at School on Deformation Theory IV in Rome*
- 11/9/24 **Irreducibility of some Quot schemes**, *Poster presented at GAPXIX in Rome*
- 12/2/24 **Construction of Quot**, *Algebraic Geometry Seminar in SISSA*
- 27/11/24 **Deformation functors and tangent-obstruction theories**, *Algebraic Geometry Seminar in SISSA*

Language skills

- English **C1 Level**
- Italian **Mother tongue**

Extracurricular activities

- 12/2021 **Group Theory Competition**, *Università di Pisa*
Together with a colleague, I won the annual informal competition organized by students.
- 05/2018 **Italian Mathematics Olympiads**, *Cesenatico*
Awarded a silver medal.
- 04/2018 **Italian Physics Olympiads**, *Senigallia*
Awarded a silver medal.