

Aitor Iribar López - Curriculum Vitae

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Education

- 2022- now** **PhD in Mathematics**, *ETH Zurich*. Advisor Rahul Pandharipande
2021-2022 **Master of Science in Advanced Mathematics** (Part C), *University of Oxford*
2017-2021 **Degree in Mathematics**, *Complutense University of Madrid*

Papers and preprints

- (1) Gromov-Witten theory of $\text{Hilb}^n(\mathbb{C}^2)$ and Noether-Lefschetz theory of $\mathcal{A}_g$,
with Hsian-Hua Tseng and Rahul Pandharipande
arXiv:2506.12438, 2025.
- (2) The Euler characteristic of $\mathcal{A}_g$ via Hodge integrals,
Algebraic Geometry 12 (6) 813–822, 2025.
- (3) The integral Chow ring of $\mathcal{R}_2$,
with Alessio Cela
To appear in Annali della Scuola Normale Superiore di Pisa, 2025.
- (4) Noether-Lefschetz cycles on the moduli space of abelian varieties,
arxiv:2411.09910, 2024.
- (5) Genus 0 logarithmic and tropical fixed domain counts for Hirzebruch surfaces,
with Alessio Cela
Journal of the London Mathematical Society, 109 (4), 2024.

Invited Research Visits

- Jun. 2025** Oberwolfach Workshop: Recent trends in algebraic geometry.

Invited Conference Talks

- Jun. 2025** Oberwolfach Workshop: Recent trends in algebraic Geometry
May 2024 Curves, abelian varieties, and their moduli in Berlin.

Invited Seminar Talks

- Nov. 2025** Algebra, Geometry and Number Theory Seminar, *Leiden University*.
Nov. 2025 Algebraic Geometry Seminar, *Utrecht University*.
May. 2025 Algebraic Geometry Seminar, *University of Cambridge*.
Apr. 2025 Seminari di Algebra e Geometria, *La Sapienza University*.
Mar. 2025 MaPhyAG Seminar, *Complutense University of Madrid*.
May 2024 Seminario de Algebra, Geometria y Topologia, *Complutense University of Madrid*.
Apr. 2024 Algebraic Geometry and Moduli Seminar, *ETH Zürich*.
Mar. 2024 Algebraic Geometry and Moduli Seminar, *ETH Zürich*.

Teaching experience

Fall 2020 Teaching Assistant, Basic Mathematics. Complutense University of Madrid.
Fall 2022 Teaching Assistant, Mathematics for Architecture students. ETH Zürich.
Fall 2023 Teaching Assistant, Algebraic Topology I. ETH Zürich.
Fall 2024 Teaching Assistant, Commutative Algebra. ETH Zürich.
Spring 2025 Teaching Assistant, Algebraic Geometry. ETH Zürich.

Community service

Fall 2024 Lecturer, Commutative Algebra online course for LATAM students, ICTP.

Honors and Awards

- *Beca de excelencia de la Comunidad de Madrid 2018, 2019*, a scholarship for university students with excellent academic performance.
- *Beca de colaboracion UCM, 2020*, a scholarship awarded to complete my Bachelor's thesis.

Last update: November 2025