

# Matilde Maccan

## Curriculum Vitae

Fakultät für Mathematik, RUB  
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🌐 <https://matildemaccan.github.io/>

### Experience

- 2024-present **Postdoc (E13 position)**, at Ruhr University Bochum, in the group of [C. Lehn](#);  
2021-2024 **PhD Student**, at IRMAR (Université de Rennes) and Institut Fourier (Université de Grenoble Alpes), under the supervision of [M.Brion](#) and [M. Romagny](#).

### Education

- 2019-2021 **Master Degree in Mathematics**, at Università di Torino, final grade 110/110 cum laude, thesis *Unipotent algebraic groups over arbitrary fields*, under the supervision of [M. Romagny](#) and [C. Casagrande](#);  
2020-2021 **Master 2 Maths Fondamentales**, at Université de Rennes, Erasmus Programme;  
2019-2021 **Bachelor's Degree in Mathematics**, at Università di Torino, final grade 110/110 cum laude, thesis: *Il Teorema di Poincaré-Hopf: aspetti analitici e algebrici*, under the supervision of [C. Casagrande](#).

### (Pre)publications

- 2025 **Maximal automorphism groups of surfaces**, [Document here](#), joint work with [P. Fong](#), to appear in ZAG Seminar Proceedings  
2024 **Parabolic subgroup schemes and homogeneous varieties in small characteristics**, *PhD thesis*, [Manuscript here](#), defended in June 2024.  
2024 **Isotrivial elliptic surfaces in positive characteristic**, preprint at [arXiv:2405.11602](#), joint work with [P. Fong](#), to appear in Documenta Mathematica.  
2023 **Parabolic subgroups in characteristics two and three**, preprint at [arXiv:2312.00415](#), to appear in Journal of the London Mathematical Society.  
2023 **Projective homogeneous varieties of Picard rank one in small characteristic**, preprint at [arXiv:2303.12391](#), to appear in Annali della Scuola Normale Superiore, Classe di Scienze, DOI: 10.2422/2036 – 2145.202307.013.

### Research Talks

- 2025.05 **Workshop Group Schemes Actions in Low Dimension**, Lille  
2025.04 **Joint Seminar on Complex Algebraic Geometry and Complex Analysis**, Wuppertal  
2025.04 **Séminaire Géométrie Algébrique, Géométrie Analytique, Théorie de Lie**, Poitiers  
2025.03 **Séminaire de Géométrie**, IMB, Bordeaux  
2025.03 **Seminari di Algebra e Geometria Algebrica**, Torino  
2025.03 **Séminaire Algèbre et Géométries**, IF, Grenoble  
2025.03 **Séminaire d'Arithmétique**, UMPA, Lyon  
2025.03 **Colloque Tournant du RT Algèbre**, Clermont-Ferrand  
2025.02 **Séminaire Géométrie Algébrique**, Lille  
2025.02 **Séminaire Géométrie, Algèbre, Dynamique et Topologie**, Dijon  
2025.01 **Seminar Algebraic Geometry**, MPIM, Bonn  
2024.12 **Séminaire Géométrie et Topologie**, LMBA, Brest  
2024.11 **Algebraic Geometry and Complex Geometry**, CIRM, Luminy  
2024.10 **Oberseminar Algebraic Lie Theory**, RUB, Bochum

- 2024.10 **Workshop Algebraic Groups in a broad sense**, Stockholm
- 2024.09 **Minicourse: Moduli of K3s**, *Summer School on Real Algebraic Geometry and Hodge Theory*, Dresden
- 2024.04 **Séminaire Arithmétique et Géométrie Algébrique**, IRMA, Strasbourg
- 2024.04 **Séminaire Géométrie Algébrique**, *Laboratoire Paul Painlevé*, Lille
- 2024.03 **Séminaire Algèbre et Géométries**, *Institut Fourier*, Grenoble
- 2024.02 **13th Swiss-French Workshop in Algebraic Geometry**, Charmey
- 2024.01 **Algebraic Geometry Oberseminar**, HHU, Düsseldorf
- 2023.11 **Basel-Dijon-Lausanne Joint Seminars**, Basel
- 2023.11 **Number Theory Seminar**, IMB, Bordeaux
- 2023.10 **RéGA Seminar**, IHP, Paris
- 2023.09 **AGATA Seminar**, IMAG, Montpellier
- 2023.08 **Journées d'Etudes du GDR TLAG**, IRMAR, Rennes
- 2023.06 **Representation theory conference**, ICJ, Lyon
- 2023.06 **Séminaire de Géométrie**, IECL, Nancy
- 2023.05 **Arithmetic Geometry seminar**, IRMAR, Rennes
- 2022.11 **Schubert Seminar**, online
- 2022.09 **Algebra and Geometry PhD student seminar**, IRMAR, Rennes
- 2022.05 **PhD student seminar**, ICJ, Lyon

## Other Talks

- 2025.03 **At what cost? Psychological and physical costs of working in math academia**, *Comprehensible Seminar*, Grenoble, joint with psychologist A.Maccan
- 2024.03 **A sex so little made to brave the thorns of science: representing female mathematicians**, *Comprehensible Seminar*, Algebra and Geometry PhD student Seminar, Rennes
- 2024.01 **A sex so little made to brave the thorns of science: representing female mathematicians**, *Comprehensible Seminar*, Grenoble
- 2023.12 **Gruppi algebrici, tra l'oceano bretonese e le Alpi**, *Welcome Home Seminar*, Dipartimento G. Peano, Turin
- 2023.12 **La recherche en mathématiques fondamentales: quelques contre-exemples aux stéréotypes**, *Journée Filles, Maths et Informatique*, Grenoble

## Administrative and scientific responsibilities

- 2025 **Organiser**, CARE conference, [website here](#)
- 2023-present **Reviewer service**, zbMATH Open
- 2023-2025 **Seminar co-organiser**, PhD student seminar and PhD days, Institut Fourier, Grenoble
- 2022-2023 **Student representative**, Scientific committee of IRMAR, Rennes
- 2022-2023 **Seminar co-organiser**, Algebra and Geometry PhD student seminar, IRMAR, Rennes

## Teaching Experience

- 2025 **Teaching Assistant**, Analysis II *SoSe25*, Ruhr University Bochum, Germany
- 2024-2025 **Teaching Assistant**, Analysis I *WS24/25*, Ruhr University Bochum, Germany
- 2023-2024 **Teacher**, Course and Travaux Dirigés of MAT101 (*L1 IMA*), UGA, France
- 2021-2023 **Teaching Assistant**, Travaux Dirigés of *Outils Mathématiques 1 (L1 PCSTM)* and *Algèbre et Géométrie 1 (L1 Mathématiques)*, Université de Rennes, France
- 2019-2020 **Tutoring activities**, *Geometria Uno (MFN1626)* and *Geometria Due (MFN1250)*, Università di Torino, Italy
- 2017-2018 **Tutor**, *Digital Math Training* project, financed by Fondazione CRT, Università di Torino, Italy (200 hours)

2016-2020 **Tutor**, Mathematical Olympiads Courses, *High School G. Ferraris* and *High School C. Cavour*, Turin, Italy

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## Scholarships

2016 **Scholarship for entry to Bachelors degree courses in Mathematics**, *Awarded by Istituto Nazionale di Alta Matematica F. Severi*

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## Languages

I speak Italian (native speaker), English and French at a professional working level. I have been teaching in French universities for the last 3 years. I am currently learning and teaching partly in German.