

RODRIGO DE POOL

depool.rodrigo@gmail.com
<https://rodrigodepool.github.io/>

ACADEMIC POSITIONS

University of Notre Dame <i>Postdoctoral Research Associate</i>	Indiana, USA 2025 - 2028
Instituto de Ciencias Matemáticas (ICMAT) <i>Ph.D. in Geometry and Algebra</i> <ul style="list-style-type: none">• Advisor: Prof. Javier Aramayona• Research area: Mapping class groups	Madrid, Spain 2021 - 2025

EDUCATION

Universidad Autónoma de Madrid <i>Master in Mathematics and Applications</i>	Madrid, Spain 2020 - 2021
Universidad Autónoma de Madrid <i>Double degree in Mathematics and Computer Science</i> <ul style="list-style-type: none">• Final year project for Mathematics: Classification of surfaces• GPA: 9.30/10	Madrid, Spain 2015 - 2020

PUBLICATIONS

1. Homomorphisms between pure mapping class groups.
Advances in Mathematics (2025).
2. Non-planar ends are continuously unforgettable.
Joint with J. Aramayona, R. Skipper, J. Tao, N. G. Vlamis and X. Wu.
International Mathematics Research Notices (2025).
3. Braided multitwists.
Algebraic and Geometric Topology (2025).
4. Finite rigid sets of the non-separating curve complex.
Forum Mathematicum (2022).
5. Matching arc complexes: Connectedness and hyperbolicity.
Joint with J. Aramayona and A. Fernández.
Expositiones Mathematicae (2021).
6. Towards the Automatic and Schedule-Aware Alerting of Internetwork Time Series.
Joint with D. Perdices, J. García-Dorado, J. Ramos, J. Aracil.
IEEE Access (2021).

PREPRINTS

1. Holomorphic maps between moduli spaces II.
Joint with J. Souto.
In arXiv:2412.01257 (2024).

RESEARCH STAYS

Institut de recherche mathématique de Rennes (Rennes, France).
Collaborating with professor Juan Souto. April 2024 - June 2024

AWARDS, FELLOWSHIPS, GRANTS

Society of Science Fellowship. University of Notre Dame. 2025 - 2028
FPI predoctoral contract. Spanish Ministry of Science and Innovation. 2021 - 2025
JAE Intro SOMdM Grant. Research scholarship awarded by ICMAT. 2020 - 2021
Excellence scholarships. Awarded yearly by the Community of Madrid. 2015 - 2020

INVITED TALKS,
SEMINARS AND
COLLOQUIA

- Rigidity results for the mapping class group.
University of Notre Dame, 23 September 2025.
- Resultados de rigidez del grupo modular.
Instituto de Ciencias Matemáticas, 22 May 2025.
- Braided elements homomorphisms in the mapping class group.
Universidad Nacional Autónoma de México, 28 October 2024.
- Homomorphisms between mapping class groups.
Universidad Complutense de Madrid, 23 September 2024.
- Transverse measures to infinite type laminations.
Internationales Wissenschaftsforum Heidelberg, 8 July 2024.
- Holomorphic rigidity of moduli space.
Institut de recherche mathématique de Rennes, 24 June 2024.
- Mapping class groups, braided elements and homomorphisms.
Institut de recherche mathématique de Rennes, 19 June 2024.
- Braided multitwists in the mapping class group.
Instituto de Ciencias Matemáticas, 5 December 2023.
- Finite rigidity of non-separating curve complexes.
Universidad de León, 9 February 2023.
- Introduction to geometric group theory.
Universidad Autónoma de Madrid, 14 December 2022.
- The symplectic representation of the mapping class group.
Instituto de Ciencias Matemáticas, 2 December 2022.
- Finite rigid sets of the non-separating curve complex.
Institut Henri Poincaré, June 2022.
- The curve complex.
Instituto de Ciencias Matemáticas, 24 May 2022.
- On the hyperbolicity of arc complexes and some of their relatives.
Instituto de Ciencias Matemáticas, 9 December 2021.

TEACHING
EXPERIENCE

- Instructor for **Calculus B**.
University of Notre Dame. Spring term of 2025/26
- Problem sessions for **Mathematical Analysis**.
Mathematics, Universidad Autónoma de Madrid. 1st term of 2024/25
- Problem sessions for **Linear Algebra**.
Data Science and Engineering, Universidad Autónoma de Madrid. 1st term of 2023/24
- Problem sessions for **Mathematics**.
Environmental Science, Universidad Autónoma de Madrid. 1st term of 2022/23
- Teacher in the ‘Pequeño instituto matemático’ (PIM).
PIM is a weekly activity organized by the ICMAT where high school students discuss olympiad like problems. 2022 - 2024

CONFERENCE
ORGANIZA-
TION

- Co-organizer of the *Graduate school on Geometric Group Theory and Low-dimensional Topology* (ICMAT). May 2022