Eduardo de Lorenzo Poza

Postdoctoral Researcher

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edelopo.github.io

Positions

2026–2027 **Postdoctoral Researcher**, *Universidad Politécnica de Madrid*, Madrid, Spain
2025–2026 **Postdoctoral Researcher**, *KU Leuven*, Leuven, Belgium
2025–2026 **Postdoctoral Researcher**, *Basque Center for Applied Mathematics (BCAM)*, Bilbao, Spain

Education

2020–2025 **PhD student in Mathematics**, *KU Leuven*, Leuven, Belgium
2020–2025 **PhD student in Mathematics**, *Basque Center for Applied Mathematics (BCAM)*, Bilbao, Spain
2019–2020 **Master in Advanced Mathematics**, *Universidad Complutense de Madrid*, Madrid, Spain
2018–2019 **Erasmus Year**, *Technische Universität München*, München, Germany
2015–2019 **Degree in Mathematics**, *Universidad de Zaragoza*, Zaragoza, Spain

Research interests

Singularity theory, Algebraic Geometry and Symplectic Geometry. Arc spaces, contact loci and Floer homology of the Milnor fibration.

Publications

2026 **The Arc-Floer conjecture for plane curves** — joint with Javier de la Bodega. *Journal of Differential Geometry* **133** (2), 155-205. Links: arXiv:2308.00051 · Journal

2026 **A remarkable subset of poles of the motivic zeta function** — joint with Nero Budur, Quan Shi and Huaiqing Zuo. Links: arXiv:2602.13508

2025 **Contact loci of semihomogeneous singularities** — joint with Jiahui Huang. Links: arXiv:2506.18805

2024 **On the embedded Nash problem** — joint with Nero Budur, Javier de la Bodega, Javier Fernández de Bobadilla and Tomasz Pełka. *Forum of Mathematics, Pi* **12**, e15. Links: arXiv:2208.08546 · Journal

Grants and funding

2024–2026 **PhD Fellowship Fundamental research**, *KU Leuven*
Fonds voor Wetenschappelijk Onderzoek (FWO). Grant 1187425N

2022–2024 **PhD Fellowship Fundamental research**, *KU Leuven*
Fonds voor Wetenschappelijk Onderzoek (FWO). Grant 1187423N

2019–2020 **Beca JAE Intro Severo Ochoa María de Maeztu**, *ICMAT*

Invited talks

5–9 Oct 2026 **Simons School on Higher dimensional varieties**, Budapest, Hungary
Floer homology and the arc-Floer conjecture.

29 Jun–3 Jul 2026 **IberoSing International Workshop 2026**, Zaragoza, Spain
Geometry of contact loci via semihomogeneous singularities.

20 Feb 2026 **Séminaire de géométrie énumérative**, Paris, France
What can symplectic geometry tell us about algebraic singularities?.

10–14 Nov 2025 **New Developments in Singularity Theory**, Miami, FL, USA
Singularities via arc spaces and Floer homology.

8 Oct 2025 **Algebraic Geometry Seminar**, Waterloo, Canada
Singularities via arc spaces and Floer homology.

8 Jul–1 Aug 2025 **2025 Summer Research Institute in Algebraic Geometry**, Fort Collins, CO, USA
Contact loci and the arc-Floer conjecture.

12–16 May 2025 **Mid-Atlantic Geometry and Singularities Conference**, La Laguna, Spain
Some results about contact loci.

22 Jan 2025 **KU Leuven Seminar Number Theory and Algebraic Geometry**, Leuven, Belgium
Floer homology, contact loci and plane curves.

6–10 Nov 2023 **IberoSing International Workshop 2023**, Granada, Spain
The Arc-Floer conjecture for plane curves.

30–31 Oct 2023 **JORGE II**, Barcelona, Spain
The Arc-Floer conjecture and plane curves.

6–10 Feb 2023 **Singularities and Algebraic Geometry**, Nha Trang, Vietnam
The topology of contact loci of plane branches.

27–28 Oct 2021 **Sesión Especial de Doctorandos Iberosing**, Madrid, Spain
Lugares de contacto y monodromía de la fibra de Milnor.