

Pablo Mazón

[CUNEF UNIVERSIDAD](#)
Almansa 101, 28040 Madrid Spain
pablo.mazon@cunef.edu
[CUNEF Website](#)
[Google Scholar](#)
[ORCID](#)

EMPLOYMENT

- Since 2025: **Assistant Professor**, Dept. of Mathematics, *CUNEF Universidad*.
- Mar 2024 - Jan 2025: **Postdoctoral Researcher**, *Università di Trento*. Fellow in the *Italian Network for Applied and Birational Algebraic Geometry*.
- Oct 2020 - Dec 2023: **Early-Stage Researcher**, *Centre Inria d'Université Côte d'Azur*. Fellow in the *EU Horizon 2020* Doctoral Project in *GRAPES*.
- Apr 2020 - Jul 2020: **Predocctoral Researcher**, *Laboratoire d'Informatique Gaspard Monge*. Fellow in the *Labex Bézout Center*.

EDUCATION

- Oct 2020 - Dec 2023: **Ph.D. in Mathematics**, *Centre Inria d'Université Côte d'Azur*. **Thesis**: "Effective methods for multilinear birational transformations and contributions to polynomial data analysis". **Advisor**: Laurent Busé
- Sep 2019 - Jul 2020: **Master's in Mathematics and Computer Science**, *Université Gustave Eiffel*. **Thesis**: "Center sets and the Carathéodory number of real algebraic varieties". **Advisor**: Alfredo Hubard.
- Sep 2014 - Jul 2019: **Bachelor's Degree in Mathematics**, *Universidad de Cantabria*. **Thesis**: "Carmichael numbers".
- Sep 2014 – Jul 2019: **Bachelor's Degree in Physics**, *Universidad de Cantabria*. **Thesis**: "First-order corrections of current quantum capacitor models".

FIELDS OF INTEREST

Algebraic Geometry, Birational and rational transformations, Commutative Algebra, Tensors, Computer-Aided Geometric Design.

PUBLICATIONS

1. Laurent, Busé; Mazón, Pablo: “Construction of Birational Trilinear Volumes via Tensor Rank Criteria”, *SIAM Journal on Applied Algebra and Geometry*, Vol. 9, Iss. 2, 405–431, 2025.
2. Laurent, Busé; Mazón, Pablo; Schicho, Josef: “Tri-linear Birational Maps in Dimension Three”, *Mathematics of Computation*, Vol. 92, 1837-1866, 2023.

WORKING PAPERS

1. Hubard, Alfredo; Mazón, Pablo; Karasev, Roman: “Weak $(1-\epsilon)$ -Nets for Polynomial Superlevel Sets”, Preprint: <https://arxiv.org/abs/2308.14060>.
2. Mazón, Pablo; Postinghel, Elisa: “ 2^n Tensors are not Generically Identifiable for $n > 3$ ”.
3. Jüttler, Bert; Mazón, Pablo; Schicho, Josef: “Using Line Geometry to Analyze Birational Trilinear Mappings”
4. Marsala, Michelangelo; Mazón, Pablo: “Invertible NURBS Curves”
5. Checa, Carles; Mazón, Pablo: “Effective Criteria for Birational Biquadratic Maps”

SELECTED ACADEMIC HONOURS AND GRANTS

1. Postdoctoral Fellowship *Progetti di Rilevante Interesse Nazionale (PRIN 2022)*
2. Fellowship *Marie Skłodowska-Curie Actions* grant agreement No 860843
3. Master’s Scholarship *Bézout Excellence Program*
4. Received Honors for Bachelor’s *Thesis* in Mathematics
5. Received Honors for Bachelor’s *Thesis* in Physics

SELECTED PRESENTATIONS

CONFERENCES

1) Jul 2025 SIAM Conference on Applied Algebraic Geometry (AG25), 2) Jun 2025 INABAG Conference, 3) Jan 2025 VII Congreso de Jóvenes Investigadores de la RSME, 4) Jul 2024 Effective Methods in Algebraic Geometry (MEGA24), 5) Jun 2024 XVIII Encuentro de Álgebra Computacional y Aplicaciones, 6) Apr 2024 GRAPES’ Final Open Conference and Career Fair, 7) Jan 2024 Congreso Bienal de la Real Sociedad Matemática Española (RSME24), 8) Jul 2023 SIAM Conference on Applied Algebraic Geometry (AG23), 9) Jun 2023 SIAM Conference on Computational Geometric Design (GD23), 10) Mar 2023 Journées Nationales de Calcul Formel (JNCF2023), 11) Feb 2023 VI Congreso de Jóvenes Investigadores de la RSME, 12) Jun 2022 Effective Methods in Algebraic Geometry (MEGA22), 13) Mar 2022 Journées Nationales de Calcul Formel (JNCF22), 14) Jan 2022 Congreso Bienal de la Real Sociedad Matemática Española (RSME2022)

SEMINARS

1) Jul 2024 INABAG Kick-off Meeting, 2) Feb 2024 AMS Postdoc Seminar at John Hopkins University, 3) Feb 2023 AROMATH annual meeting in Athens, 4) Nov 2022 Linz Algebra Research Day (LARD23), 5) Sep 2022 AROMATH Seminar, 6) Jun 2022 Séminaire de l'équipe d'algèbre, topologie et géométrie UCA, 7) May 2022 Colloque des doctorants de l'EDSFA, 8) Nov 2021 Seminari de Geometria Algebraica de Barcelona 2021/2022, 9) May 2021 EACA Tapas Seminar on Computer Algebra, 10) Jan 2021 AROMATH Seminar