Pablo González Mazón

Work and Education

Mar 2024 — Today	**Postdoctoral Researcher** at the *Università di Trento* Fellow of the *Italian Network for Applied and Birational Algebraic Geometry (INABAG)* *Progetti di Rilevante Interesse Nazionale (PRIN 2022)* Actions **Advisor:** Elisa Postinghel
Oct 2020 — Dec 2023	**Ph.D. in Mathematics** at the *Centre Inria d'Université Côte d'Azur* Fellow in *GRAPES*. EU's *Horizon 2020 Marie Sklodowska-Curie Actions* **Thesis:** "Effective methods for multilinear birational transformations and contributions to polynomial data analysis" **Advisor:** Laurent Busé
Sep 2022 — Dec 2022	**Industrial secondment** at *RISC-Software* **Advisor:** Alexander Leutgeb
Sep 2021 — Dec 2021	**Scientific secondment** at the *Universitat de Barcelona* **Advisors:** Carlos D'Andrea, Joan Carles Naranjo
Apr 2020 — Jul 2020	**Researcher in Mathematics** at the *Laboratoire d'Informatique Gaspard Monge* **Thesis:** "Center sets and the Carathéodory number of real algebraic varieties" **Advisor:** Alfredo Hubard
Sep 2019 — Apr 2020	**Master's degree in Mathematics and Computer Science** at *Université Gustave Eiffel* Fellow in *Labex Bézout*
Sep 2014 — Jul 2019	**Bachelor's degree in Mathematics** at the *Universidad de Cantabria* **Thesis:** "Carmichael numbers". Awarded honors.
Sep 2014 — Jul 2019	**Bachelor's degree in Physics** at the *Universidad de Cantabria* **Thesis:** "First-order corrections of current quantum capacitor models". Awarded honors.

Research Articles

- Busé L, González-Mazón P, Schicho J, 2022. Tri-linear birational maps in dimension three. *Math. Comp. 92 (2023), 1837-1866*. This paper was selected for a contributed talk at MEGA 2022.

- González-Mazón P, Hubard A, Karasev R, 2023. Weak $(1 - \epsilon)$-nets for polynomial superlevel sets. *Preprint arXiv:2308.14060*.

- Busé L, Mazón P, 2024. Construction of birational trilinear volumes via tensor rank criteria. *Preprint arXiv:2405.16936*. This paper was selected for a contributed talk at MEGA 2024.

Languages

Spanish	Native speaker		
English	C2	2019	**British Council:** IELTS grade 8.0 / 9.0
	C1	2018	**Cambridge University:** CAE grade C
French	B2	Sep 2019 - Dec 2023	French lessons at Inria. Resident in France
Italian	A1	2024	**Centro Linguistico di Ateneo - CLA**
		Mar 2024 - Today	Resident in Italy

Presentations at Conferences and Seminars

Jul 2023	SIAM Conference on Applied Algebraic Geometry (AG23) **Title:** Effective birational deformation of trilinear volumes
Jul 2023	SIAM (AG23), organization of a mini-symposium **Title:** Castelnuovo-Mumford regularity and applications
Jun 2023	SIAM Conference on Computational Geometric Design (GD23) **Title:** Effective birational deformation of trilinear volumes
Mar 2023	Journées Nationales de Calcul Formel (JNCF2023) **Title:** Effective birational deformation of trilinear volumes
Feb 2023	AROMATH annual meeting in Athens **Title:** Effective birational deformation of trilinear volumes
Feb 2023	VI Congreso de Jóvenes Investigadores de la Real Sociedad Matemática Española **Title:** Birational 3D Free-Form Deformations of degree $1 \times 1 \times 1$
Nov 2022	Linz Algebra Research Day (LARD23) **Title:** Birational 3D Free-Form Deformations of degree $1 \times 1 \times 1$
Sep 2022	AROMATH Seminar **Title:** Birational 3D Free-Form Deformations of degree $1 \times 1 \times 1$
Jun 2022	Effective Methods in Algebraic Geometry (MEGA22) **Title:** Trilinear birational maps in dimension three
Jun 2022	Séminaire de l'équipe d'algebre, topologie et géométrie UCA **Title:** Trilinear birational maps in dimension three
May 2022	Colloque des doctorants de l'EDSFA **Title:** Trilinear birational maps in dimension three
Mar 2022	Journées Nationales de Calcul Formel (JNCF22) **Title:** Trilinear birational maps in dimension three
Jan 2022	Congreso Bienal de la Real Sociedad Matemática Española (RSME2022) **Title:** Trilinear birational maps
Nov 2021	Seminari de Geometria Algebraica de Barcelona 2021/2022 **Title:** Trilinear birational maps (blackboard talk)
May 2021	EACA Tapas Seminar on Computer Algebra **Title:** Criterios efectivos y clasificacion de transformaciones bilineales y trilineales birracionales
Jan 2021	AROMATH Seminar **Title:** Center sets and the Caratheodory number of real algebraic varieties
Feb 2020	5th EACA International School on "Computer Algebra and Applications" **Title:** "Constructive partitioning polynomials and applications"

OTHER PUBLICATIONS

1. Divulgation Article "Construcción de transformaciones birracionales". To appear at La Gaceta de la Real Sociedad Matemática Española (2024)

2. Translation to Spanish of the vignette "Goodstein Sequences: The Power of a Detour via Infinity", from the Klein Project Blog (2019)

3. Solution to "Problem 327" at La Gaceta de la Real Sociedad Matemática Española, vol.21, n.2, pp. 341-342 (2018)