



José Miguel Balado-Alves

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[balado-alves.github.io](https://github.com/balado-alves)

EDUCATION

Ph.D. in Mathematics

University of Münster

Oct. 2021 – Feb. 2025

Münster, Germany

- Thesis: Energy functionals and symmetry.
- Supervisor: Anna Siffert

Master's Degree in Mathematics

University of Santiago de Compostela

Sep. 2020 – July 2021

Santiago de Compostela, Spain

- Thesis: Variedades de Riemann isocurvadas (in Spanish). Grade: 10/10
- Supervisor: Eduardo García-Río

Bachelor's Degree in Mathematics

University of Santiago de Compostela

Sep. 2016 – July 2020

Santiago de Compostela, Spain

- Thesis: Derivadas de Lie: Transformaciones infinitesimales (in Spanish). Grade: 10/10
- Supervisor: Eduardo García-Río

PUBLICATIONS

- [1] J. M. Balado-Alves. "Explicit harmonic self-maps of complex projective spaces". In: *The Journal of Geometric Analysis* 34.1 (2024), p. 21.
- [2] J. M. Balado-Alves. "Polyharmonic hypersurfaces into complex space forms". In: *Annali di Matematica Pura ed Applicata* (2024).
- [3] J. M. Balado-Alves and A. Siffert. "Construction of r -harmonic submanifolds". In: *arXiv preprint arXiv:2404.02535* (2024).
- [4] J. M. Balado-Alves. "Variedades de Riemann isocurvadas". In: *Publications of the Department of Geometry and Topology, University of Santiago de Compostela*. 152 (2022).

SELECTED TALKS

"A cohomogeneity one approach to (poly)harmonic maps"

Oberseminar in Differential Geometry, University of Münster (Germany)

January 2025

"Construction of r -harmonic submanifolds"

Süddeutsches Kolloquium über Differentialgeometrie, University of Frankfurt (Germany)

June 2024

"Critical submanifolds of higher order energy functionals"

Seminar, University of Cagliari (Italy)

February 2024

"Explicit harmonic self-maps of complex projective spaces"

Differential Geometry Workshop, University of Iași (Romania)

September 2023

"Recíproco del Teorema Egregium"

Seminar, University of Santiago de Compostela (Spain)

April 2021

SCHOLARSHIPS AND AWARDS

"Mellores expedientes"

Award to the bests academic records from University of Santiago de Compostela

2016

Summer School in Dublin, Ireland

Grant awarded to pay for an intensive course on Irish culture and language

2018

RESEARCH VISITS

University of Cagliari

February 2024

TEACHING EXPERIENCE

Co-supervisor of Manuel Stasius's Bachelorarbeit

Bachelor thesis about "Minimal Surfaces"

Winter Semester 2023

University of Münster

Assistant for "Ricci Flow"

Seminar

Summer Semester 2024

University of Münster

Assistant for "Submanifold theory"

Seminar

Summer Semester 2024

University of Münster

LANGUAGES

Spanish: Native

English: Advanced (C1)

German: Beginner (A2)

ORGANIZER OF

Differential Geometry Seminar

Local seminar for Ph.D. students

Winter Semester 2023

University of Münster

Differential Geometry Seminar

Local seminar for Ph.D. students

Summer Semester 2024

University of Münster

REVIEWER OF

zbMATH Open

2024–present

OUTREACH

Outreach talk for kids with ADHD

"¿Para qué sirven las matemáticas?"

October 2020

INGADA Foundation