José Miguel Balado-Alves

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balado-alves.github.io

EDUCATION

Ph.D. in Mathematics	Oct. 2021 – Feb. 2025
University of Münster	Münster, Germany

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

Master's Degree in Mathematics	Sep. 2020 – July 2021
University of Santiago de Compostela	Santiago de Compostela, Spain

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

Bachelor's Degree in Mathematics	Sep. 2016 – July 2020
University of Santiago de Compostela	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 Mathematica Pura ed Applicata* (2024).

[3]   J. M. Balado-Alves and A. Siffert. "Construction of r-harmonic submanifolds in spheres". 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"	January 2025
Oberseminar in Differential Geometry, University of Münster (Germany)	

"Construction of r-harmonic submanifolds"	June 2024
Süddeutsches Kolloquium über Differentialgeometrie, University of Frankfurt (Germany)	

"Critical submanifolds of higher order energy functionals"	February 2024
Seminar, University of Cagliari (Italy)	

"Explicit harmonic self-maps of complex projective spaces"	September 2023
Differential Geometry Workshop, University of Iași (Romania)	

"Recíproco del Teorema Egregium"	April 2021
Seminar, University of Santiago de Compostela (Spain)	

SCHOLARSHIPS AND AWARDS

"Mellores expedientes"	2016
Award to the bests academic records from University of Santiago de Compostela	

Summer School in Dublin, Ireland	2018
Grant awarded to pay for an intensive course on Irish culture and language	

Research visits

University of Cagliari   February 2024

Teaching Experience

Co-supervisor of Manuel Stasius's Bachelorarbeit   Winter Semester 2023
Bachelor thesis about "Minimal Surfaces"   University of Münster

Assistant for "Ricci FLow"   Summer Semester 2024
Seminar   University of Münster

Assistant for "Submanifold theory"   Summer Semester 2024
Seminar   University of Münster

Languages

Spanish: Native

English: Advanced (C1)

German: Beginner (A2)

Organizer of

Differential Geometry Seminar   Winter Semester 2023
Local seminar for Ph.D. students   University of Münster

Differential Geometry Seminar   Summer Semester 2024
Local seminar for Ph.D. students   University of Münster

Reviewer of

zbMATH Open   2024–present

Outreach

Outreach talk for kids with ADHD   October 2020
"¿Para qué sirven las matemáticas?"   INGADA Foundation