

Graduate in Science (Mathematics), Faculty of Sciences of the University of Zaragoza, 1969 with Extraordinary Prize. Ph.D. (Mathematics), University of Zaragoza, 1974 with Distinction cum laude.

Two-year postdoctoral stay at the University of Wisconsin. Madison. (U.S.A), 1976-1978, (Honorary Fellow). Professor (UZ), 1978-1990. Full Professor of Geometry and Topology (UZ), 1990-2016. Emeritus Professor (UZ) since 2016.

Member of the Real Academia de Ciencias Exactas, Físicas, Químicas y Naturales de Zaragoza since 1996.

Medal of RSME (Real Sociedad Matemática Española) in 2016.

Her Ph.D. dissertation was in Algebraic Topology. Since 1976 his research belongs to Low Dimensional Topology:

- Invariants of knots, links and graphs.
- Groups, knots and universal links.
- Geometric structures in 3-manifolds with singularities. Orbifolds
- Flows in 3-varieties.
- Topological invariants obtained from geometry.

Founding member of the Red Española de Topología (RET), funded by the Ministerio de Ciencia y Tecnología. Principal researcher of the consolidated Group "Geometría" recognized and funded by the DGA (Gobierno de Aragón) 2002-2016.

Invited speaker at numerous specialized international conferences, as: Low dimensional Geometry and Topology of Manifolds Conference in Santa Barbara (1986) (California, USA); International Conference on KNOTS 90 Osaka (1990) (Japan), Three Day Symposium on Geometric Topology at University of Tokyo (1990); International Conference on KNOTS96 Waseda University (1996) in Tokyo (Japan); XI Latin-American School of Mathematics. Mexico City-Guanajuato (1993) (Mexico); Low Dimensional Topology Conference in Funchal (1998) (Madeira, Portugal); Workshop on Discrete Groups and Conformal Geometry Västerås (1998) (Sweden); II Joint RSME-SMM Meeting. Torremolinos, Malaga (2012); III RSME-SMM Joint Meeting. Zacatacas, (2014) (Mexico). (CAT-SP-SW-MATH), Umeå (2017) (Sweden);

More than 70 research articles published in prestigious journals (Trans. AMS, Bull. AMS, Math. Proc. Camb. Phil. Soc., Topology, Invent. Math., Proc. AMS, Mathematische Nachrichten, JKTR, BSMM, Pacific J. of Math., J MATH SCI-U TOKYO, Bull. London Math. Soc., RACSAM, ...)

Some of her theorems obtained in collaboration with J.M. Montesinos-Amilibia, H. Hilden and W. Whitten, have been included in basic books and texts, such as Foundations of Hyperbolic Manifolds by John G. Ratcliffe, GTM 149 of Springer-Verlag (1991); Knots, links, braids and 3-manifolds by Prasolov, V.V. and Sossinsky, A.B. Translations of Mathematical Monographs, 154. AMS (1997); Encyclopaedia of Mathematical Sciences Vol 29 Geometry II by E.B. Vinberg(Ed.) Springer-Verlag (1988).