

Curriculum Vitae

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Education

- August 1999: Ph.D. in Mathematics, State University of New York at Stony Brook.
Thesis title: Gromov Invariants of Symplectic fibrations.
Thesis advisor: Professor Dusa McDuff.
- June 1993: Bachelor degree in Mathematics (with honors), Universidad Nacional Autónoma de México.

Research Interests

- Differential Topology, Riemannian Geometry.

Positions

- 2002-present: Assistant Professor of Mathematics at Rutgers University, Camden.
- 1999-2002: Assistant Professor of Mathematics at Tufts University.

Publications

- Gromov Invariants of S^2 -bundles over 4-manifolds, *Topology and its Applications*, vol. **124** (2002), no.2, 327-345.
- \hat{A} -genus on non-spin manifolds with circle actions and the classification of positive quaternion-Kähler 12-manifolds, with R. Herrera, *Journal of Differential Geometry* **61** (2002)., no. 3, 341-364.
- Classification of positive quaternion-Kaehler 12-manifolds, with R. Herrera, *Comptes Rendus de l'Académie des Sciences - Série I - Mathematics* **334** (2002), no. 1, 43-46.

- A result on the \hat{A} and elliptic genera on non-spin manifolds with circle actions, with R. Herrera, *Comptes Rendus de l'Académie des Sciences - Série I - Mathematics* **335** (2002), no. 4, 371-374.
- Generalized elliptic genus and cobordism class of non-spin real Grassmannians, with R. Herrera, *Annals of Global Analysis and Geometry* **24** (2003) 323-335.
- The signature and the elliptic genus of π_2 -finite manifolds with circle actions, with R. Herrera, *Topology and its Applications* **136** (2004) 251-259.
- Elliptic genera for non-spin Riemannian symmetric spaces with $b_2=0$, with R. Herrera, *Journal of Geometry and Physics* **49** (2004), no. 2, 197--205.
- The signature of even 4-manifolds with circle actions, *J JP J. Geom. Topol.* **6** (2006), no. 3, 237--243.
- Spin-q manifolds admitting parallel and Killing spinors, with R. Herrera, *accepted* for publication in the *Journal of Geometry and Physics*.
- Spin-q manifolds and S^1 actions, with R. Herrera, *C. R. Acad. Sci. Paris, Ser. I* **345** (2007) 35--38.

Invited Talks

- American Mathematical Society Regional Meeting, University of New Mexico, NM, October 2007.
- Manifolds and Global Analysis Seminar, Temple University, April 25, 2007.
- Differential Geometry Seminar, Centro de Investigaciones en Matemáticas, Guanajuato, Mexico, August, 2006.
- Lehigh University Geometry/Topology Conference, June 8-10, 2006.
- American Mathematical Society Regional Meeting, Miami, FL, April 2006.
- Geometry and Topology Seminar, Department of Mathematics, University of Maryland, MD, September 2005.
- Poster presented at the FRG Workshop "Algebraic Geometry, Symplectic Geometry and Theoretical Physics: a conference celebrating the contribution of women researchers", Philadelphia, May 2005.
- American Mathematical Society Regional Meeting, Newark, DE, April 2005.
- South East Geometry Conference, Department of Mathematics, University of South Carolina, Columbia, SC. March, 2005.
- Special Lecture Series, Instituto de Matemáticas, UNAM, Morelia, México, December 2004.
- Topology Seminar, Instituto de Matemáticas, UNAM, Cuernavaca, México, June 2004.
- Postdoctoral Scholar, Mentoring Program for Women in Mathematics, Institute for Advanced Study, Princeton, NJ, May 2002.

Organized Conferences

- Differential Geometry special session of the Joint meeting of the American Mathematical Society and Sociedad Matematica Mexicana, Zacatecas, Mexico. May 23-26, 2007.
- International Workshop on Symplectic Field Theory, Colima, Mexico, January 3-7, 2007.