

Education

1. Licenciado en Matemática, UNC (Universidad Nacional de Córdoba, Argentina), 1994.
2. Ph.D. in Mathematics (Advisor: Isabel Dotti), UNC, 1998.
3. Postdoc at Yale University, 2001 - 2003.

Present positions

1. Profesor Titular (Full Professor), UNC, since October 2014.
2. Investigador Superior, CONICET, since June 2022.

Service positions

1. Director of CIEM (Centro de Investigación y Estudios de Matemática de Córdoba), CONICET, since August 2022.
2. Academic Director of the Ph.D. program in Mathematics, UNC, 2015 - 2021.

Editing

1. Editor de *Orbita Mathematicae* (Journal of the UMALCA), since 2022.
2. Editor of *Annals of Global Analysis and Geometry*, Springer, since 2016.
3. Editor-in-Chief of *Revista de la Unión Matemática Argentina*, 2011 - 2017.

International awards

1. Guggenheim Foundation Fellowship, 2001.
2. 2007 Ramanujan Prize, ICTP, IMU and Abel Fund.
3. Special Mention, UMALCA Prize, 2009.
4. Simons Associate, ICTP, since 2020.

National awards

1. Award ‘Diez Jóvenes Sobresalientes del Año’, Bolsa de Comercio de Córdoba, 2003.
2. Award ‘Carlos Segovia Fernández’, Academia Nacional de Ciencias Exactas, Físicas y Naturales (Buenos Aires, Argentina), 2007.
3. Award ‘Enrique Gaviola’, Academia Nacional de Ciencias, 2007.
4. Award ‘Mención de Honor al Valor Científico del H. Senado de la Nación’, 2022.
5. Member of the Academia Nacional de Ciencias, since 2023.
6. Award ‘Premio Konex: Diploma al Mérito’, 2023.

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Ph.D. advisor

1. David Oscari, August 13, 2012.
2. Edison Fernández Culma, October 26, 2012.
3. Romina Arroyo, March 22, 2013.
4. Ramiro Lafuente, June 19, 2013.
5. Edwin Rodríguez Valencia, September 6, 2013.
6. Marina Nicolini, June 26, 2020.
7. Valeria Gutiérrez, in progress.
8. Mikhail Rios Guzman, in progress.

Selected publications

1. ‘Commutative spaces which are not weakly symmetric’, *Bulletin of the London Mathematical Society* **30**(1998), 29-36.
2. ‘Ricci soliton homogeneous nilmanifolds’, *Mathematische Annalen* **319** (2001), 715-733.
3. ‘On the moment map for the variety of Lie algebras’, *Journal of Functional Analysis* **202** (2003), 392-423.
4. ‘Nilmanifolds of dimension ≤ 8 admitting Anosov diffeomorphisms’, in collaboration with **Cynthia Will**, *Transactions of the American Mathematical Society* **361** (2009), 2377-2395.
5. ‘Einstein solvmanifolds are standard’, *Annals of Mathematics* **172** (2010), 1859-1877.
6. ‘Ricci soliton solvmanifolds’, *Journal für die reine und angewandte Mathematik* **650** (2011), 1-21.
7. ‘Structure of homogeneous Ricci solitons and the Alekseevskii conjecture’, in collaboration with **Ramiro Lafuente**, *Journal of Differential Geometry* **98** (2014) 315-347.
8. ‘Laplacian flow of homogeneous G_2 -structures and its solitons’, *Proceedings of the London Mathematical Society* **114** (2017), 527-560.
9. ‘Finding solitons’, *Notices of the American Mathematical Society*, May 2020.
10. ‘Prescribing Ricci curvature on homogeneous spaces’, in collaboration with **Cynthia Will**, *Journal für die reine und angewandte Mathematik* **783** (2022), 95-133.
11. ‘The stability of standard homogeneous Einstein manifolds’, in collaboration with **Emilio Lauret**, *Mathematische Zeitschrift* **303**, 16 (2023).

Short visits

1. Univ. Paris VI, Borel trimester, Institut Henri Poincare, Paris, June 1-30, 2008.
2. University of California at Berkeley, January-March 2010.
3. Dartmouth College, February 1-28, 2014.

4. MSRI, Research member, March 14 - May 14, 2016.

Main invited lectures

1. Oberwolfach, July 2000.
2. Colloquium Dartmouth College, November 2001, March 2010 and February 2014.
3. Osaka University, February 2002.
4. International Congress on Diff. Geom. and its App., Prague, August 2004.
5. RIMS, Kyoto University., September 2007.
6. 'Einstein manifolds and beyond', CIRM, Luminy, November 2007.
7. 'Ricci flow and related topics', Institut Henri Poincaré, Paris, June 2008.
8. 'Geometrie', Oberwolfach, July 2008.
9. Intern. Symp. on Diff. Geom., IMPA, Rio de Janeiro, August 2009.
10. III CLAM Congreso Latin. Amer. de Matemáticos, Santiago de Chile, September 2009.
11. 'Ricci soliton days in Pisa', Pisa, April 2011.
12. 'Geometric structures on manifolds and their applications', Marburg, July 2012.
13. IV Congreso Latinoamer. de grupos de Lie en geometría, Guanajuato, August 2012.
14. 'Encounters in Geometry', Cabo Frio, Brasil, June 2013.
15. 'A workshop in memory of our colleague and friend Sergio Console', Torino, February 2015.
16. AMSI/AustMS workshop "Geometry and Analysis", Adelaida, September 2015.
17. 'Lie Group Actions in Riemannian Geometry', Dartmouth College, June 2017.
18. 'Workshop on G_2 -manifolds', Fields Institute, August 2017.
19. 'Modern trends in Differential Geometry', Sao Paulo, August 2018.
20. Abel Symposium 2019, Alesund (Norway), June 2019.
21. ICTP Math Associates Seminar (online, video available at my website), Italy, July 2020.
22. 'Geometry and Applications Online', celebrating the 80th birthday of Dmitri Alekseevsky (Czech Republic), September 2020 (online).
23. 'Mathematical Congress of the Americas', Buenos Aires, July 2021.