

Luciano Mari
Curriculum Vitae

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Personal Information

Full name Luciano Mari
Birth: 14/05/1983 - Milano - Italy

Professional Address Dipartimento di Matematica, Università degli Studi di Torino
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10123 Torino - Italy

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Formal Education

- 2009 - 2011** Ph.D. in Mathematics
Università degli Studi di Milano, UNIMI, Milano, Italy
PhD Thesis discussed on February 20th, 2012.
Title: On some aspects of oscillation theory and Geometry, Year of degree: 2011
Advisor: Prof. Marco Rigoli
- 2005 - 2007** Master's in Mathematics (Laurea Specialistica).
Università degli Studi di Milano, UNIMI, Milano, Italy
Master's Thesis discussed on December 17th, 2007.
Title: On the geometry of stochastically complete manifolds, Year of degree: 2007
Advisor: Prof. Marco Rigoli
Scholarship from: Istituto Nazionale di Alta Matematica
- 2002 - 2005** Graduation in Mathematics (Laurea Triennale).
Università degli Studi di Milano, UNIMI, Milano, Italy
Thesis discussed on December 20th, 2005.
Title: Gruppi Cristallografici in 3 dimensioni: un recente approccio
Advisor: Prof.ssa Maria Dedó
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Professional Experience

1. Universidade Federal do Ceará - UFC

Contract institutional

2014 - 2016 Contract: Servidor público , Position: Professor Adjunto-Nível A , Working hours (weekly): 40, Schemes of job: Full-time and exclusiveness

2. Scuola Normale Superiore - SNS

Contract institutional

2016 - 2018 Ricercatore a tempo determinato RTDA , Working hours (weekly): 40, Schemes of job: Full-time and exclusiveness

3. Università degli Studi di Torino

Contract institutional

2019 - present Ricercatore a tempo determinato RTDB , Working hours (weekly): 40,
Schemes of job: Full-time and exclusiveness

Languages

Italian	Understanding Fluent , Speaking Fluent , Writing Fluent , Reading Fluent
Portuguese	Understanding Fluent , Speaking Fluent , Writing Fluent , Reading Fluent
English	Understanding Fluent , Speaking Fluent , Writing Fluent , Reading Fluent
Español	Understanding Basic , Speaking Basic , Writing Basic , Reading Basic

Awards

2014	Bolsa de Produtividade em Pesquisa CNPQ - Nível 2. De 09/02/2015 a 31/03/2016.
2013	Premio "Giacchino Iapichino 2013", Accademia Nazionale dei Lincei.
2006	Borsa di studio per Laurea Specialistica, INDAM Istituto Nazionale di Alta Matematica.

Grants

05/07/2017 - 27/12/2018	2-years research project SNS17_B_MARI titled: "Bernstein theorems, minimal graphs and the energy of knots", founded by the Scuola Normale Superiore (15.000 euro)
02/01/2018 - 31/12/2018	1 year research project SNS_RB_MARI, founded by the Scuola Normale Superiore (4.000 euro)
02/17 - 01/20	Member of the PRIN project code 2015KB9WPT (PI: Andrea Malchiodi)
14/03/2017 - 30/06/2018	Member of the GNAMPA project 2017 "Equazioni differenziali non lineari" (PI: P. Pucci)
02/01/2017 - 31/12/2017	1 year research project SNS_RB_MARI, founded by the Scuola Normale Superiore (4.000 euro)

Bibliographic Production

Articles Published in Scientific Journals

24. **MARI, L.**; PESSOA, L.F.
Maximum principles at infinity and the Ahlfors-Khas'minskii duality: an overview. 29 pp. To appear on Springer INDAM Series, "Contemporary Research in Elliptic PDEs and Related Topics".

23. COLOMBO, G., **MARI, L.**, RIGOLI, M.

Remarks on mean curvature flow solitons in warped products. 37pp., to appear in Discrete and Continuous Dynamical Systems - Series S, proceeding of the meeting on the occasion of Patrizia Pucci's 65th birthday.

22. **MARI, L.**; PESSOA, L.F.

Duality between Ahlfors-Liouville and Khas'minskii properties for nonlinear equations. *Comm. Anal. Geom* 2017 (70 pp., in press).

21. BESSA, G.P.; JORGE, L.P.; **MARI, L.**; MONTENEGRO, J.F.B.

Spectrum estimates and applications to Geometry. *Topics in Modern Differential Geometry*, v. 1, p. 111 – 198, 2017.

20. MAGLIARO, M.; **MARI, L.**; RIGOLI, M.

On a paper of Berestycki-Hamel-Rossi and its relations to the weak maximum principle at infinity, with applications. *Revista Matemática Iberoamericana*. , v.34, p.915 – 936, 2018.

19. MAGLIARO, M.; **MARI, L.**; RIGOLI, M.

Remarks on the geometry of surfaces in the four-dimensional Mobius sphere. *Rendiconti del Seminario Matematico di Torino Vol. 74, 1* (2016), 121-161.

18. LIMA, B.P.; MONTENEGRO, J.F.B.; **MARI, L.**; VIEIRA, F.B.

Density and spectrum of minimal submanifolds in space forms. *Mathematische Annalen*. , v.364, p.1 - 32, 2016.

17. BIANCHINI, B.; **MARI, LUCIANO**; RIGOLI, M.

Yamabe-type equations with a sign-changing nonlinearity, and the prescribed curvature problem. *Journal of Differential Equations (Print)*. , v.260, p.7416 - 7497, 2016.

16. **MARI, L.**; MASTROLIA, P.; RIGOLI, M.

A note on Killing fields and CMC hypersurfaces. *Journal of Mathematical Analysis and Applications (Print)*. , v.431, p.919 - 934, 2015.

15. ALBANESE, G.; **MARI, L.**; RIGOLI, M.

On the role of gradient terms in coercive quasilinear differential inequalities on Carnot groups. *Nonlinear Analysis*. , v.126, p.234 - 261, 2015.

14. BESSA, G.P.; JORGE, L.P.; **MARI, L.**

On the spectrum of bounded immersions. *Journal of Differential Geometry*. , v.99, p.215 - 253, 2015.

13. BIANCHINI, B.; **MARI, L.**; RIGOLI, M.

Yamabe type equations with sign-changing nonlinearities on non-compact Riemannian manifolds. *Journal of Functional Analysis*. , v.268, p.1 - 72, 2015.

12. BESSA, G. P.; GARCÍA-MARTÍNEZ, S. C.; **MARI, L.**; RAMÍREZ-OSPINA, H. F.

Eigenvalue estimates for submanifolds of warped product spaces. *Mathematical Proceedings of the Cambridge Philosophical Society (Print)*. , v.1, p.1 - 18, 2013.

11. **MARI, L.**; VALTORTA, D.

On the equivalence of stochastic completeness and Liouville and Khas-minskii conditions in linear and nonlinear settings. *Transactions of the American Mathematical Society*. , v.365, p.4699 - 4727, 2013.

10. FARINA, A.; **MARI, L.**; VALDINOCI, E.

Splitting Theorems, Symmetry Results and Overdetermined Problems for Riemannian Manifolds. *Communications in Partial Differential Equations*. , v.38, p.1818 - 1862, 2013.

9. BIANCHINI, B.; **MARI, L.**; RIGOLI, M.

Yamabe type equations with sign-changing nonlinearities on the Heisenberg group, and the role of Green functions. *Contemporary Mathematics AMS. "Recent trends in Nonlinear Partial Differential Equations I: evolution problems."* , v. 594 , p. 115 – 136 , 2013. Workshop in honour of Patrizia Pucci's 60th birthday.

8. BIANCHINI, B.; **MARI, L.**; RIGOLI, M.

On some aspects of oscillation theory and geometry. *Memoirs of the American Mathematical Society.* , v.225, p.1 - 195, 2013.

7. BIANCHINI, B.; **MARI, L.**; RIGOLI, M.

Some generalizations of Calabi compactness theorem. *Matematica Contemporanea* , v.40 p. 103 - 124 , 2011.

6. MAGLIARO, M.; **MARI, L.**; MASTROLIA, P.; RIGOLI, M.

Keller-Osserman type conditions for differential inequalities with gradient terms on the Heisenberg group. *Journal of Differential Equations (Print).* , v.250, p.2643 - 2670, 2011.

5. MAGLIARO, M.; **MARI, L.**; RIGOLI, M.

On the geometry of curves and conformal geodesics in the Möbius space. *Annals of Global Analysis and Geometry.* , v.40, p.133 - 165, 2011.

4. IMPERA, D.; **MARI, L.**; RIGOLI, M.

Some geometric properties of hypersurfaces with constant r -mean curvature in Euclidean space. *Proceedings of the American Mathematical Society.* , v.139, p.2207 - 2215, 2011. (Erratum on: *Proceedings of the American Mathematical Society.* , v.141, p.2221 - 2223, 2013).

3. **MARI, L.**; RIGOLI, M.; SETTI, A. G.

Keller-Osserman conditions for diffusion-type operators on Riemannian manifolds. *Journal of Functional Analysis.* , v.258, p.665 - 712, 2010.

2. **MARI, L.**; RIGOLI, M.

Maps from Riemannian manifolds into non-degenerate Euclidean cones. *Revista Matemática Iberoamericana.* , v.3, p.1057 - 1074, 2010.

1. BIANCHINI, B.; **MARI, L.**; RIGOLI, M.

Spectral radius, index estimates for Schrödinger operators and geometric applications. *Journal of Functional Analysis.* , v.256, p.1769 - 1820, 2009.

Submitted papers:

23. BIANCHINI, B.; MARI, L.; PUCCI, P.; RIGOLI, M.

On the interplay between maximum principles, compact support principles and Keller-Osserman conditions on manifolds. 173 pp.

24. MARI, L.; RIGOLI, M.; SETTI, A.G.

On the $1/H$ -flow by p -Laplace approximation: new estimates via fake distances under Ricci lower bounds, 70 pp.

25. ALMARAZ, S., DE LIMA, L.L., MARI, L.

Spacetime positive mass theorems for initial data sets with noncompact boundary, 30pp.

26. COLOMBO, G., MAGLIARO, M., MARI, L., RIGOLI, M.

Bernstein and half-space properties for minimal graphs under Ricci lower bounds, 18pp.

Invited speaker in Events.

48. Congresso "GASP 2019 – Geometric Analysis, Submanifolds, and Geometry of PDEs", held at Politecnico di Torino (Torino, Italy), on September 9-13, 2019. Title of the talk: "On the $1/H$ flow via p -Laplace approximation under Ricci lower bounds".

47. Congresso "XXI Congresso dell' Unione Matematica Italiana", at Università di Pavia (Pavia, Italy) on September 2-7, 2019. Title of the talk: "On the $1/H$ flow via p -Laplace approximation under Ricci lower bounds".

46. Seminar at the University of Montpellier (Montpellier, France), on June 7, 2019. Title of the talk: "A survey on the spectrum of Riemannian manifolds and their minimal submanifolds."
45. Congress "Analytic and Geometric Aspects of PDEs", held at Politecnico di Milano (Milano, Italy) on May 27-30, 2019. Title of the talk: "On the $1/H$ flow via p-Laplace approximation under Ricci lower bounds".
44. Workshop "Variational and PDE problems in Geometric Analysis, II", held at the University of Bologna (Bologna, Italy) on May 23-24, 2019. Title of the talk: "On the $1/H$ flow via p-Laplace approximation under Ricci lower bounds".
43. Congress "ICMC Summer Meeting 2019 (Special session: Evolution Equations and Applications)", held in São Carlos (Brazil) on February 4-6, 2019. Title of the talk: "On the $1/H$ flow via p-Laplace approximation under Ricci lower bounds".
42. Seminar held at the Université Paris 7 (Paris, France), on December 10, 2019. Title of the talk: "On the $1/H$ flow via p-Laplace approximation under Ricci lower bounds".
41. Seminar held at the University of Melbourne (Australia) on August 20, 2018. Title of the talk: "On the $1/H$ flow via p-Laplace approximation under Ricci lower bounds".
40. Congress "12th AIMS Conference on Dynamical Systems, Differential Equations and Applications", held in Taipei (Taiwan) on July 5-9, 2018. Title of the talk: "Maximum principles at infinity and the Ahlfors-Khas'minskii duality".
39. Workshop "Pluripotential theory, Geometric Analysis and Calibrated Geometry", held in Torino (Italy), May 2-5, 2018.
38. Workshop "Variational Methods in Analysis, Geometry and Physics", held in Pisa (Italy), February 12-17, 2018. Title of the talk: "Bernstein theorems for graphs with prescribed mean curvature under volume growth conditions".
37. Seminar held at King's College, London (England), December 10-17, 2017. Title of the talk: "A survey on the spectrum of Riemannian manifolds and their minimal submanifolds".
36. Seminar held at "Università degli Studi dell'Aquila", l'Aquila (Italy), December 4-6, 2017. Title of the talk: "Maximum principles at infinity and the Ahlfors-Khas'minskii duality".
35. Workshop "On free boundaries, phase transitions and interfaces", held in Melbourne (Australia), September 18-19, 2017. Title of the talk: "Bernstein theorems for graphs with prescribed mean curvature under volume growth conditions".
34. "31^o Colòquio Brasileiro de Matemática", held in Rio de Janeiro (Brazil), July 29 – August 6, 2017. Title of the talk: "Bernstein theorems for graphs with prescribed mean curvature under volume growth conditions".
33. Congress "Third Symposium on Scattering and Spectral Theory", held in Florianópolis (Brazil), July 22-28, 2017. Title of the talk: "The spectrum of the Laplacian on manifolds: some recent results".
32. Workshop "Contemporary Research in elliptic PDEs and related topics", held in Bari (Italy), May 30-31, 2017. Title of the talk: "Maximum principles at infinity and the Ahlfors-Khas'minskii duality".
31. Seminar held at "Università degli Studi La Sapienza", Roma (Italy), May 29, 2017. Title of the talk: "On the spectrum of Riemannian manifolds: a survey".
30. Workshop "Two-day meeting on PDEs a Perugia", held in Perugia (Italy), February 23-24, 2017. Title of the talk: "Maximum principles at infinity and the Ahlfors-Khas'minskii duality".
29. Congress "France-Italy meeting in Geometric Analysis", held in Pisa (Italy), February 19-25, 2017. Title of the talk: "Maximum principles at infinity and the Ahlfors-Khas'minskii duality".
28. Seminar held at "Simion Stoilov IMRA", Bucarest (Romania), February 7, 2017. Title of the talk: "On the spectrum of minimal submanifolds in space forms".
27. Seminar at "Freie Universität Berlin", in Berlin (Germany), November 28, 2016. Title of the talk: "On the spectrum of minimal submanifolds in space forms".
26. Seminar held at "University of Naples", Naples (Italy), November 16, 2016. Title of the talk: "Maximum principles at infinity and the Ahlfors-Khas'minskii duality".
25. Workshop "On Riemannian and Complex Geometry (On the occasion of the seventieth birthday of Francesco Mercuri)", held in Parma (Italy), September 19-20, 2016. Title of the talk: "On the spectrum of minimal submanifolds in space forms".
24. Congress "First Joint Meeting Brazil Italy in Mathematics", held in Rio de Janeiro (Brazil), August 29 – September 2, 2016. Title of the talk: "Ahlfors-Khas'minskii duality for fully nonlinear PDEs, and geometric applications".
23. "VI Workshop on Differential Geometry", held in Maceió (Brazil), March 14-18, 2016. Title of the talk: "Ahlfors-Khas'minskii duality for fully nonlinear PDEs, and geometric applications".
22. Seminar held at "University of Linköpings", Linköpings (Sweden), February 28 – March 5, 2016. Title of the talk: "Ahlfors-Khas'minskii duality for fully nonlinear PDEs, and geometric applications".
21. Congress "First Joint Meeting Brazil Spain in Mathematics", held in Fortaleza (Brazil), December 7-10, 2015. Title of the talk: "Ahlfors-Khas'minskii duality for fully nonlinear PDEs, and geometric applications".
20. "V Workshop on Differential Geometry", held in Maceió (Brazil), March 16-20, 2015. Title of the talk: "On

the spectrum of minimal submanifolds”.

19. Workshop “III Encontro da Pós-Graduação em Matemática da UFBA”, held in Salvador (Brazil), September 14-18, 2015. Title of the talk: “On the spectrum of minimal submanifolds”.

18. Workshop “Geometry Day in Como”, held in Como (Italy), January 9, 2015. Title of the talk: “On the spectrum of minimal submanifolds in space forms”.

17. Congress “Recent trends in Geometric Analysis”, held in Marseille (France), June 1-5, 2015. Title of the talk: “Yamabe type equations with a sign-changing nonlinearity on Riemannian manifolds”.

16. Seminar at “Politecnico di Milano”, Milano (Italy), 2015. Title of the talk: “Yamabe type equations with a sign-changing nonlinearity on Riemannian manifolds”.

15. Congress “XVIII Escola de Geometria Diferencial”, held in Brasília (Brazil), July 28 – August 1, 2014. Title of the talk: “Finite density and the spectrum of minimal submanifolds in H^n ”.

14. Seminar at “Università degli Studi di Milano”, Milano (Italy), July 2014. Title of the talk: “Finite density and the spectrum of minimal submanifolds in H^n ”.

13. Seminar at “Instituto de Matemática Pura e Aplicada (IMPA)”, Rio de Janeiro (Brazil), 2014. Title of the talk: “Finite density and the spectrum of minimal submanifolds in space forms”.

12. Congress “I Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada”, held in São Paulo (Brazil), December 10-12, 2014. Title of the talk: “On the spectrum of minimal submanifold in space forms”.

11. Seminar at “Universidade Estadual de Campinas”, Campinas (Brazil), June 7-13, 2014. Title of the talk: “Yamabe type equations with sign-changing nonlinearities on non-compact manifolds”.

10. Seminar at “Universidade de São Paulo”, São Paulo (Brazil), March 2014. Title of the talk: “Yamabe type equations with sign-changing nonlinearities on non-compact manifolds”.

9. Seminar at “Università degli Studi di Milano”, Milano (Italy), February 2014. Title of the talk: “Yamabe type equations with sign-changing nonlinearities on non-compact manifolds”.

8. Seminar at “Università degli Studi dell’Insubria”, Como (Italy), January 2014. Title of the talk: “Yamabe type equations with sign-changing nonlinearities on non-compact manifolds”.

7. Congress “VII Workshop on Geometric Analysis”, held in Fortaleza (Brazil), February 17-21, 2014. Title of the talk: “Yamabe type equations with sign-changing nonlinearities on non-compact Riemannian manifolds”.

6. Seminar at “Instituto de Matemática Pura e Aplicada (IMPA)”, Rio de Janeiro (Brazil), Escola de Verão, February 2013. Title of the talk: “On the spectrum of bounded immersions”.

5. Seminar at “Instituto de Matemática Pura e Aplicada (IMPA)”, Rio de Janeiro (Brazil), Escola de Verão, January 2013. Title of the talk: “Yamabe type equations with sign-changing nonlinearities on non-compact Riemannian manifolds”.

4. Seminar at “Universidade Federal do Ceará”, Fortaleza (Brazil), March 2012. Title of the talk: “On the equivalence of Khasminskii type conditions, Liouville properties and the weak maximum principle in linear and nonlinear setting”.

3. Congress “II Colóquio da região Nordeste”, held in Terezina (Brazil), November 18-24, 2012. Title of the talk: “Yamabe type equations with sign-changing nonlinearities on non-compact Riemannian manifolds”.

2. Seminar at “Universidad de Murcia”, Murcia (Spain), November 1-29, 2011. Title of the talk: “On some aspects of Oscillation Theory and Geometry”.

1. Seminar at “Intensive research period on Geometric flows and Geometric Operators”, held in Pisa (Italy), July 8-19, 2009. Title of the talk: “Spectral radius, index estimates for Schrodinger operators and geometric applications”.

Poster presented in events.

1. Poster at “Spanish-Japanese workshop on Differential Geometry”, held in Granada (Spain), February 14-18, 2011. Title of the poster: “On some aspects of Oscillation Theory and Geometry”.

Visiting periods.

Universidad de Murcia (Murcia, Spain),
November 2012 (4 weeks) and June 2013 (3 weeks)

Universidade Federal do Ceará (Fortaleza, Brazil),
2012 (6 months) Visiting position
January 2013 – April 2014. Position: Professor Visitante - Jovem doutor, Working hours (weekly): 40,
Schemes of job: Full-time and exclusiveness

July-August 2017, January-February 2019

IMPA (Rio de Janeiro – Brazil)
February 2013 (4 weeks)

Universidade de São Paulo (São Paulo, Brazil)
March 2014 (3 weeks)

Universidade Estadual de Campinas (Campinas, Brazil)
June 2014 (1 week)

Universidade Federal da Paraíba (João Pessoa, Brazil)
November 2014 (2 weeks)

Universidade Federal Fluminense (Rio de Janeiro, Brazil)
November 2015 (1 week)

University of Linköpings (Linköpings, Sweden)
February-March 2016 (1 week).

Università di Napoli (Napoli, Italy)
November 2016 (1 week)

Freie Universität Berlin (Berlin, Germany)
November 2016 (1 week)

IMRA “Simion Stoilov”, (Bucarest, Romania)
February 2017 (1 week)

Università de l'Aquila (l'Aquila, Italy)
December 2017 (3 days)

University College of London UCL (London, England)
December 2017 (1 week)

Monash University (Clayton, Melbourne, Australia)
Bartnik fellowship grant, August 2018 (1 month)

Université Paris 7 – Paris Diderot (Paris, France)
December 2018 (1 week)

Universidade Federal do Piauí (Teresina, Brazil)
February 2019 (1 week)

Université de Montpellier (Montpellier – France)
June 2019 (1 week)

Minicourses held.

5. Minicourse (8 hours) on “Subcriticality theory and application to Yamabe problems and minimal hypersurfaces”, held in Oberwolfach on the occasion of the Oberwolfach Seminar “Spectral estimates on Noncompact Manifolds and Applications to Geometry”, held in Oberwolfach (Germany) on May 20-26, 2018.
4. Minicourse (3 hours) on “The nonlinear Dirichlet problem”, on the occasion of the workshop “Pluripotential theory, Geometric Analysis and Calibrated Geometry”, held at the Department of Mathematics “Giuseppe Peano”, University of Torino (Turin), Italy, on May 2-5, 2018.
3. Minicourse (20 hours) on “The Bernstein problem”, at Scuola Normale Superiore, Pisa (Italy). From 1-10-2016 to 31-01-2017.

2. Minicourse (12 hours) on “Convergence of manifolds”, at Universidade Federal do Ceará, Fortaleza (Brazil). April 2016.
1. Minicourse (8 hours) on “Equações de Yamabe em variedades não compactas”, held in João Pessoa (Brazil), November 10-16, 2014.

Participation in Events.

20. CIME Course in Geometric Analysis, held in Cetraro (Italy), June 17-22, 2018. Minicourses by P. Topping, A. Neves, P. Yang and A. Fraser.
19. Congress “Minimal surfaces and related topics”, held in Granada (Spain), January 9-12, 2018.
18. INDAM Intensive research period “Contemporary Research in elliptic PDEs and related topics”, held in Bari (Italy), May 22-24, 2017.
17. Workshop “Varietà reali e complesse: geometria, topologia e analisi armonica”, held in Pisa (Italy), March 24-26, 2017.
16. Congress “James Serrin: from his legacy to the new frontiers”, held in Perugia (Italy), January 30 – February 3, 2017.
15. Congress “3rd Conference on Recent Trends in Nonlinear Phenomena”, held in Perugia (Italy), September 28-30, 2016.
14. Congress “A Mathematical Tribute to Ennio De Giorgi”, held in Pisa (Italy), September 19-23, 2016.
13. Congress “Minimal surfaces, overdetermined problems and geometric analysis”, ICTP-CIMPA research school held in Santiago (Chile), April 8-15, 2015.
12. CIME Course on “Partial Differential Equations and Geometric Measure Theory”, held in Cetraro (Italy), June 2-7, 2014.
11. Workshop “IV Workshop de Geometria Diferencial”, held in Maceió (Brazil), March 2014.
10. Congress “On analytic and Geometric aspects of Elliptic PDEs”, held in Bellaterra, Barcellona (Spain), September 2-6, 2013.
9. Congress “Encounters in Geometry”, held in Cabo Frio (Brazil), June 3-7, 2013.
8. “Workshop on Geometric Analysis”, held in São Paulo (Brazil), April 22-26, 2013.
7. “Pedagogical school on knots and links”, held in Pisa (Italy), May 2-13, 2011.
6. Workshop “Ricci solitons days”, held in Pisa (Italy), April 4-8, 2011.
5. Congress “Il Riemann International School of Mathematics (RISM)”, held in Verbania (Italy), September 26 – October 1, 2010.
4. Congress “A Harmonic Map Fest”, held in Cagliari (Italy), September 7-10, 2009.
3. Congress “I Riemann International School of Mathematics (RISM)”, held in Verbania (Italy), April 19-24, 2009.
2. Congress “APLIMAT 2008”, held in Bratislava (Slovak Republic), February 5-8, 2008.
1. Congress “Recent Advances in the Geometry and Topology of Submanifolds”, held in Roma (Italy), May 28-30, 2008.

Organization of events.

5. Co-Organizer (together with A. Malchiodi and L. Martinazzi) of the Congress “Recent trends in Geometric analysis and applications”, held at Centro De Giorgi (Pisa, Italy) on November 25-28, 2019.
4. Co-Organizer (together with P. Laurain and J.H.S. De Lira) of the special session SS88 “Geometric Analysis” in the “12th AIMS Conference on Dynamical Systems, Differential Equations and Applications”, held in Taipei (Taiwan) on July 5-9, 2018.
3. Co-Organizer (together with A. Malchiodi) of the congress “Recent Advances in Geometric Analysis”, held at Centro de Giorgi (Pisa), on June 4-8, 2018.
2. Co-Organizer (together with N. Grosse and B. Sharp) of the Oberwolfach Seminar “Spectral Estimates on Noncompact Manifolds and Applications to Geometry”, held in Oberwolfach (Germany) on May 20-26, 2018.
1. Member of the local organizing committee for the congress “First Joint Meeting Brazil Spain in Mathematics”, held in Fortaleza (Brazil), December 7-10, 2015”. Co-organizer with J.H.S. de Lira (chief), A.C.G. Fernandes, D. Moreira, A.A. Barros, E. Ribeiro Jr., G.P.F. Bessa.

Teaching experience

18. "Geometria", (1st year course), at University of Torino (faculty of Physics, course in Optics and Optometry), from March 1 to June 15, 2019, 48 hours.
17. "Geometry of submanifolds", (Ph.D. course), at Scuola Normale Superiore, from March 1 to June 15, 2019, 40 hours.
16. Esercitatore for "Complementi di Matematica", (1st year course) at Scuola Normale Superiore, from 18-10 to 31-12 2019, 20 hours.
15. "Riemannian Geometry, II", (Ph.D. course) at Scuola Normale Superiore, from 15-10-2017 to 15-04-2018, 40 hours.
14. "Complementi di Matematica per Biologi", at Scuola Normale Superiore, Pisa (Italy). From 1-10-2017 to 30-05-2018, 40 hours.
13. "Riemannian Geometry", at Scuola Normale Superiore, from 15-10-2016 to 15-04-2017, 40 hours.
12. "Complementi di Matematica per Biologi", at Scuola Normale Superiore, Pisa (Italy). From 1-10-2016 to 30-05-2017, 40 hours.
11. "Matemática Elementar", at Universidade Federal do Ceará, Fortaleza (Brazil). March-May 2016, 20 hours.
10. "Matematica Aplicada", at Universidade Federal do Ceará, Fortaleza (Brazil). September-December 2015, 64 hours.
9. "Calculo Vetorial aplicado", at Universidade Federal do Ceará, Fortaleza (Brazil). February-June 2015, 64 hours.
8. "Geometria Riemanniana 2", at Universidade Federal do Ceará, Fortaleza (Brazil). February-June 2015, 96 hours.
7. "Geometria Riemanniana 1", at Universidade Federal do Ceará, Fortaleza (Brazil). August-December 2014, 96 hours.
6. "Algebra linear", at Universidade Federal do Ceará, Fortaleza (Brazil). August-December 2014, 64 hours.
5. Seminars on "Optimal transport and geometry" (with F.D. Ciotaru), at Universidade Federal do Ceará, Fortaleza (Brazil). September-December 2013, 20 hours.
4. Tutoring for "Analisi Matematica" at the Faculty of Physics, University of Milan. From 30-2-2011 to 30-7-2011,
3. Tutoring for "Istituzioni di Matematica" at the Faculty of Chemistry, University of Milan. From 15-10-2010 to 4-7-2011.
2. Tutoring for "Analisi Reale" (Master "Laurea Magistrale" in Mathematics, University of Milan), From 2-12-2008 to 18-01-2009.
1. "OFA course" (preparatory course for first year students) at "Politecnico di Milano", Milan (Italy). From 1-09-2008 to 15-11-2008.

Mentoring

Post-Doc mentoring

1. Leandro Freitas Pessoa; title of the collaboration: "The Ahlfors-Khas'minskii duality and geometric applications". Universidade Federal do Ceará (Fortaleza, Brazil), July-December, 2015.

Ph.D. mentoring

1. Renivaldo Sodre de Sena, "Mean curvature flow solitons in the hyperbolic space". Universidade Federal do Ceará (Fortaleza, Brazil), 2015 – 2018. Thesis discussed on 26-09-2018
2. José Danuso Rocha, "TBA", October 2018 – present.

Master's thesis mentoring

4. Gioacchino Antonelli, "On the structure of spaces with Ricci curvature bounded from below", Thesis defended at Università di Pisa (Pisa, Italy), July 13, 2018. In collaboration with Luigi Ambrosio.

3. Roberto Ladu, "On some positive mass theorems for Gauss Bonnet curvatures", Thesis defended at Università di Pisa (Pisa, Italy), June 8, 2018. In collaboration with Andrea Malchiodi.
2. Davi Ribeiro dos Santos, "Teorema fundamental das subvariedades em formalismo de Cartan", defended at Universidade Federal do Ceará (Fortaleza, Brazil), May 6, 2016.
1. Marlon de Oliveira Gomes, "O problema de Bernstein". Tese de Mestrado (Master's thesis) defended at the Universidade Federal do Ceará (Fortaleza, Brazil), August 16, 2013.

Participation to Ph.D. Boards

- 7) Samuele Lancini, Ph.D. defended at Scuola Normale Superiore (Pisa, Italy), October 2018.
- 6) Federico Stra, Ph.D. defended at Scuola Normale Superiore (Pisa, Italy), February 2018.
- 5) Stefano Borghini, Ph.D. defended at Scuola Normale Superiore (Pisa, Italy), January 2018.
- 4) Stefano Massei, Ph.D. defended at Scuola Normale Superiore (Pisa, Italy), March 2017.
- 3) Laura Cremaschi, Ph.D. defended at Scuola Normale Superiore (Pisa, Italy), June 2016.
- 2) Leandro de Freitas Pessoa, Ph.D. defended at Universidade Federal do Ceará (Fortaleza, Brazil), 30 July 2014.
- 1) Adriana Cintra, Ph.D. Thesis defended at Universidade Estadual de Campinas (Campinas, Brazil), 11 June 2014.

Scientific Journal Referee

Referee for: Discrete and Continuous Dynamical Systems. Series A , Nonlinear Analysis , Bulletin Brazilian Mathematical Society (Print) , Revista Colombiana de Matematicas , Journal of Mathematical Analysis and Applications (Print) , International Journal of Mathematics , Communications on Pure and Applied Analysis , Journal of Differential Equations, Calculus of Variations, Journal für die reine und angewandte Mathematik.