

CURRICULUM VITÆ

SUSANNA TERRACINI

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20122 Milano (Italy)

Personal data. Place and date of birth: Sutton and Cheam (U.K.), April 29th, 1963.

Marital status: married, one child.

Citizenship: italian.

Languages: italian, french (excellent), english (very good).

Short CV. Susanna Terracini obtained her PhD degree at SISSA (Trieste) in 1990. From 1992 to 2001 has been associate professor of Mathematical Analysis. She is full Professor at the University of Milano Bicocca since 2001. Her research interests include different directions in the field of nonlinear analysis with application to the variational approach to chaotic and complex trajectories in Hamiltonian dynamical systems, specially in celestial mechanics and pattern formation mechanisms for nonlinear reaction diffusion and Schrödinger systems. She is the author of about 95 papers, published on the major international mathematical journals. She is part of the editorial board of a number of national and international journals. She has been invited to speak in many Italian and foreign institutions such as MSRI, School of Mathematics in Minneapolis, Paris VI and IX, the Paris Astronomic Observatory, the Courant Institute in New York, Winsconsin University at Madison, Rutgers University, CMAF in Lisbon and EPF in Lausanne. She was invited as plenary speaker in many international conferences and notably to the *Equadiff2003* meeting, the *IV and V International Meeting on Celestial Mechanics 2004–2006*, to the *Jean Leray Centennial Conference*, in 2006, *The XIV Rivière-Fabes Symposium*, the *XIX Congresso dell’Unione Matematica Italiana* and the *9th AIMS Conference on Dynamical Systems, Differential Equations and Applications* in 2012. She was awarded with the *C. Vinti* prize in 2003 and the *B. Finzi* prize in 2007.

She is the principal investigator of the Research Project of National Interest (PRIN2012) project *Variational and perturbative aspects of nonlinear differential problems*. She is the principal investigator of the ERC Advanced Grant No 339958 - COMPAT, *Complex Patterns for Strongly Interacting Dynamical Systems*.

The joint paper with D.L. Ferrario “On the Existence of Collisionless Equivariant Minimizers for the Classical n-body Problem” published on *Inv. Math.* was selected as “featured review” on Math Reviews.

Education.

1986 Laurea in Matematica (BA), Università di Torino, thesis advisor: F. Skof,

1988 Magister Philosophiae, S.I.S.S.A. Trieste, thesis advisor: S. Solimini

1990 Doctor Philosophiae, S.I.S.S.A. Trieste, thesis advisor: I. Ekeland

Academic appointments.

1988-89 Research fellowship C.N.R. at CEREMADE (University of Paris IX)

1990-92 *Ricercatore* of Mathematical Analysis (Tenured Assistant Professor), Politecnico of Milano, Italy

1992-01 Associate professor at the Department of Mathematics, Politecnico of Milano, Italy

2001-12 Full professor at the Department of Mathematics, University of Milano Bicocca, Italy

2012- Full professor at the Department of Mathematics “Giuseppe Peano”, University of Torino

Awards.

2003 *Calogero Vinti* prize for Mathematics, 2002, (Unione Matematica Italiana)

2007 *Bruno Finzi* prize for Rational Mechanics, 2007, (Istituto Lombardo di scienze e lettere)

Academic Services.

2002– 2012: member of the committee of the PhD school in Pure and Applied Mathematics, University of Milano Bicocca

2002– 2012: vice-chairman of the Department of Mathematics, University of Milano Bicocca.

2013– now: member of the committee of the PhD school in Mathematics, University of Torino.

2012–14: member of the National Scientific Habilitation committee .

2014– now: member of the Research Observatory, University of Torino.

Grants.

1998-08 Leader of the Milano research unit of the Project of National Interest “Variational Methods and nonlinear differential equations” (national leader: Prof. A. Ambrosetti). The Milano research unit consists of 3 full professors, 3 associate professor, 4 researchers, 2 post-docs and 5 PhD students, from Universities of Milano and Milano Bicocca and Torino, Politecnico of Milano and Torino.

2001-2012 Leader of the research unit “Calculus of Variations and Differential Equations”, University of Milano Bicocca. The research unit consists of 2 full professors, 5 *ricercatore*, 2 post-docs and 5 PhD students, from University Milano Bicocca.

2005- Member of the GREFI-MEFI program (Gruppo di Ricerca Europeo Franco-Italiano: Matematics and Physics).

2007-08 Pricipal investigator of the GNAMPA project “Esistenza e stabilità di onde solitarie per equazioni differenziali non lineari”

2011-13 Principal investigator of the Research Project of National Insterest (PRIN2009) project *Critical Point Theory and Perturbative Methods for Nonlinear Differential Equations*, a network gathering four units in Italy (headed by M. Badiale, L. Chierchia, M. Berti and S. T.) and involving about 35 mathematicians.

2014-16 Principal investigator of the Research Project of National Insterest (PRIN2012) project *Variational and perturbative aspects of nonlinear differential problems*, a network gathering eight local units in Italy (headed by L. Chierchia, M. Berti, A. Malchiodi, F. Pacella, P. Pucci, G. Tarantello, E. Valdinoci and S. T.) and involving about 75 mathematicians.

2014-19 Principal Invertigator of the ERC Advanced Grant No 339958 - COMPAT, *Complex Patterns for Strongly Interacting Dynamical Systems*.

Teaching.

- Mathematical Analysis (graduate level),
- Calculus (graduate level),
- Diifferential Equations
- Measure Theory (graduate level),
- Advanced Calculus (Master level),
- Variational Methods
- Functional Analysis and Differential Equations (Master level),
- Functional Analysis applied to Material Sciences (Master level),
- Symmetry methods in PDE’s (post-graduate level),
- Ginzburg–Laundau vortices (post-graduate level),
- Nonlinear analysis (post-graduate level),

Master thesis supervised.

2005 Roberto Castelli, *Moti periodici di filamenti vorticosi quasi-paralleli*

2005 Benedetta Noris, *Il lemma di monotonia di Alt–Caffarelli–Friedman*

2007 Cristina Sanvito, *Singolarità per problemi degli N -corpi*

- 2007** Chiara Todeschini, *L'educazione matematica nell'istituzione carceraria*
- 2009** Andrea Alemani, *Reaction diffusion equations: Some applications to ecology*
- 2010** Luca Galimberti, *Sulle migliori costanti delle immersioni di Sobolev*
 Silvia Mosca, *La classificazione delle soluzioni dell'equazione di Lane-Emden*
 Cristian Bruno, *Stabilità e instabilità asintotica di una crescita tumorale*
- 2011** Cristian Cesana, *Invasioni biologiche, sopravvivenza e fronti d'onda in un'ambiente periodicamente frammentato*
 Giovanni Cattorini, *Transversality condition and utility maximization*
 Marcello Mariotti, *Some Recent Results about Population Dynamics*
 Simone Brusamolino, *Stabilità e instabilità di biforcazioni per un modello matematico di crescita tumorale*
- 2012** Ilaria Colombo, *Orbite periodiche simmetriche per il problema degli N-corpi*
 Matteo Rizzi, *Qualitative properties of solutions of some nonlinear partial differential equations*, jointly supervised with Alberto Farina, Univ. de la Picardie
 Ilaria Mondello, *Continuum limit for the discrete NLS equation*, jointly supervised with Gigliola Staffilani, MIT
 Alice Ambrosio, *Singular Harmonic Maps In General Relativity*
- 2014** Luca Alasio, *Minimizers of the interaction energy on a space of probability measures*
 Alessandro Audrito, *Classical Theory of Parabolic Equations and an Application to the Dynamics of Populations*
 Stefano Burzio, *Vortices in Bose-Einstein Condensates*
 Fabrizio Longo Vaschetti, *Symmetric solutions to the Allen-Cahn equation*
- 2015** Pamela Duodu, *The diffusion equation: modeling and qualitative analysis*, jointly supervised with Moustapha Fall, AIMS Sénégal.

PhD thesis supervised.

- 1994-98** Filippo Gazzola (now full professor, Politecnico di Milano), *Orbite periodiche in sistemi di moti periodici in catene di infinite particelle*. co-advised with G. Prouse
- 1995-99** Monica Conti (now associate professor, Politecnico di Milano), *Existence, non existence and multiplicity methods for elliptic systems*.
- 1995-99** Luca Merizzi, *Tecniche variazionali per problemi ellittici su uno spazio di Hilbert parzialmente ordinato*.
- 1995-99** David Pardo, *Simmetria per le soluzioni di equazioni subellittiche non lineari*.
- 1996-00** Gianmaria Verzini (now ricercatore, Politecnico di Milano), *Oscillating solutions to differential equations via the Nehari method*.
- 2002-04** Vivina Barutello (now ricercatore, Università di Torino), *On the n-body problem*.
- 2005-09** Roberto Castelli, *On the variational approach to the one and N-centre problem with weak forces*.
- 2005-09** Benedetta Noris, *On nonlinear Schrödinger systems with strong competition*.
- 2006-10** Hugo Tavares, *Nonlinear elliptic systems with a variational structure: existence, asymptotics and other qualitative properties*. (with Miguel Ramos)
- 2007-11** Laura Abatangelo, *Multiplicity of solutions to elliptic equations*.
- 2010-13** Alessandro Zilio, *On monotonicity formul, fractional operators and strong competition*, co-advised with Gianmaria Verzini
- 2010-13** Nicola Soave, *Variational and Geometric Methods for Nonlinear Differential Equations*, co-advised with Alberto Farina (Univ. Picardie)

I am currently supervising four PhD thesis (Manon Nys, Matteo Sacchet, Stefano Vita e Giorgio Tortone).

Post-doc mentoring.

- 2000-02** Davide L. Ferrario (now associate professor, University of Milano-Bicocca)
- 2000-01** Gianmaria Verzini (now ricercatore, Politecnico di Milano)
- 2002-03** Andrea Venturelli (now full professor, Université d'Avignon)
- 2003-06** Veronica Felli (now associate professor, University of Milano-Bicocca)
- 2004-07** Vivina Barutello (now ricercatore, University of Torino)

- 2005-06** Elsa Maria Marchini (now ricercatore, Politecnico di Milano)
2008-10 Marco Ghimenti (now ricercatore, University of Pisa)
2008-10 Ana Primo Ramos (now post-doc, ICMAT Institute for the Mathematical Sciences, Madrid)
2010-12 Benedetta Noris (now Marie-Curie post-doc at the University of Versailles);
2012-13 Mouhamed Moustapha Fall (now holding a research position at the African Intitute of Mathematics)
2012-13 Laura Abatangelo (now post-doc, University of Milano-Bicocca)
2014- Dario Mazzoleni (University of Torino)
2015- Corentin Léna (University of Torino)
2015- Christos Sourdis (University of Torino)

Participation in Scientific Committees of Conferences (from 2010).

- 2010** *Solitary and Dispersive Days* Milano, December 13–17, with R. Adami, D. Bambusi, D. Noja
2011 *Variational and perturbative methods for nonlinear differential equations*, Venice, January 20-22, with A. Malchiodi
2012 – *Workshop on Variational methods in N-body and Vortex Dynamics*, Lecce, May 28-June 8, with A. Portaluri
 – *Singular limit problems in nonlinear PDEs*, CRM Luminy, November 26-30, with T. Bartsch, M. Del Pino, N. E Dancer
2013 – *New perspectives on the N-body problem*, BIRS Banff (Canada), January 13-18 2013 (a Mathematics for Planet Earth event), with L. Chierchia, V. Kaloshin and J.N. Mather
 – *Workshop Concentration phenomena and compactness issues in nonlinear PDE*, May 19-25 2013, Institute Mittag Leffler (Djursholm), with M. Vlapp and A. Szulkin
 – *The 5th EWM summer school*, ICTP, May 27- June 1 2013
 – *The 16th EWM General Meeting*, Hausdorff Institute for Mathematics, Bonn, September 2-6, 2013
2014 – *Variational Methods in Elliptic Equations and Systems*, with Luis Sanchez, Hugo Tavares, Lisboa, January 7-10, 2014
 – *2014 International Conference of Women Mathematicians*, Program Committee member, to be held in August 2014 in Seul, Korea
2015 – *Complex Patterns in Nonlinear Phenomena Conference*, Chair, Turin, January 24-30 2015
 – *INDAM Meeting of European Women in Mathematics: the 17th EWM General Meeting*, Chair, to be held in Cortona in September 2015
 – *Joint meeting of the AMS, EMS and SPM*, Program Committee member, June 9-13, 2015 in Porto, Portugal
 – *XX Convegno dell'Unione Matematica Italiana*, Scientific Committee member, September 2015 6-11 2015, Siena
 – *VII Symposium on Nonlinear Analysis Toru?*, Scientific Committee, Poland, September 14-18, 2015

Editorial work. Is member of the editorial committee of *NODEA: Nonlinear Differential Equations and Applications*, and associate editor of *Advanced Nonlinear Studies*, *Advances in Nonlinear Analysis*, *Bollettino dell'Unione Matematica Italiana*, *Discrete and Continuous Dynamical Systems - B*, *ESAIM-COCV*, *Functiones et Approximatio*, *Portugaliae Mathematica*.

Has served as a referee for many international journals including: *Journal of the American Mathematical Society*, *Inventiones Mathematicae*, *Advances in Mathematics*, *Communications in Mathematical Physics*, *Archive for Rational Mechanics and Analysis*, *Proceedings of the American Mathematical Society*, *Nonlinearity*, *Physics Letter A*, *Physica D*, *Interfaces and Free Boundaries*, *International Journal of Mathematics*, *Journal d'Analyse Mathématique*, *Astronomy, Celestial Mechanics and Dynamical Astronomy*, *Mathematical Models in Applied Sciences*, *Communications in Contemporary Mathematics* *Discrete and Continuous Dynamical Systems sec. A*, *Journal of Differential Equations*, *Calculus of Variations*, *Annales de l'Institut Henri Poincaré*, *Analyse non linéaire*, *The Royal Society of Edinburgh Proceedings A*, *Communications in Partial Differential Equations*, *Mathematische Nachrichten*, *Nonlinear Analysis TMA*, *Differential and Integral equations*, *Advances in*

Differential Equations, Journal of Mathematical Analysis and Applications, Electronic Journal of Differential Equations, SIAM Journal on Scientific Computing, ZAMP, Mathematics of Computation.

Other services. Member of the *Osservatorio per la Ricerca dell'Università di Torino*. Member of the ASN Committee 2013-14, the Italian national habilitation committee. Member of the AERES evaluation panel of the Mathematics Department of University of Paris Cretéil- Marne-la-Vallé (2009), member of the evaluation panel of the Mathematics and IT Departments of Uppsala University. Has served as referee for several research funding agencies.

Visiting positions (one month or more).

- Centro de Matematica e Aplicações Fundamentais, Lisboa, June 1992, May 1994;
- Courant Institute for Mathematical Sciences, New York University, USA: November 1992– April 1993,
- CEREMADE, Université de Paris IX, May 1993, September 1996, March 1998, January–February 2004; February 2005; February 2007.
- Department of Mathematics, University of Southern California, USA: September–December 1994,
- Departamento di Matematica, University of Evora, Portugal, June 1996,
- Rutgers University, September 1998,
- Observatoire Astronomique de Paris, Bureaux de Longitudes, May 2000 and March 2001, February 2005
- MSRI Visiting member, April 2011

Short courses.

- *Nonlinear Analysis and Differential Equations'*, Lisboa, October 1998 (eight lectures);
- “IV Turin fortnight on nonlinear analysis”, Dipartimento di Matematica, Università di Torino, September 30th - October 3rd, 2003, short course (3 lectures) *Segregated states for some competition-diffusion problems: existence, uniqueness and the free boundary problem.*
- “Workshop GREFI-MEFI 2008: from Dynamical Systems to Statistical Mechanics”, CIRM, Marseille February 18–22, 2008, “A functional analytic approach to multi-modal periodic trajectories in Fermi-Pasta-Ulam chains”
- “The Spring School in Nonlinear Partial Differential Equations” Université Catholique de Louvain, Louvain-la-Neuve, Belgium, May 26–30, 2008, *Analytical aspects of optimal partition problems and segregation in reaction-diffusion systems*
- *Variational Methods and Nash-Moser*, Pacific Institute for Mathematical Sciences, Vancouver June 16–22 2008, *Symmetries and collisions in the n-body problem*,
- *South West Regional PDE Winter School'*, St Anne's College, University of Oxford, 12-13 December 2008 *Analytic aspects in spatial segregation for competition systems*,
- Bangalore (India), August 2010, *Spatial segregation for competition systems*
- Advanced school *Intensive two-month on boundary value problems for differential equations: models for the applied sciences and theoretical aspects.* Modena, April 15 -June 15 2012
- School *Variational and geometric methods in PDE's* - Ancona (Italy), April 18-27 2012
- INDAM-GNAMPA School *Differential equations and Dynamical Systems*, Serapo (Latina), June 11-15 2012
- Scuola Matematica Interuniversitaria, Equazioni alle Derivate Parziali, Cortona July 15-28 2012
- Summer School: *Mathematical Methods in Celestial Mechanics*, CIRM Marseille, September 9-13, 2013
- GNAMPA school on Nonlinear Elliptic Problems, University of Milano-Bicocca, January 20-24, 2014
- Primo Corso Intensivo di Calcolo delle Variazioni, Catania June 9-14, 2014
- WORKSHOP ON INTERACTIONS BETWEEN DYNAMICAL SYSTEMS AND PARTIAL DIFFERENTIAL EQUATIONS, Barcelona, June 16-20, 2014
- CIMPA Research School *Hamiltonian and Lagrangian Dynamics*, Salto, Uruguay, March 10 to 19, 2015

Invited talks (from 2010).

- 2010** – *XX Convegno Nazionale di Calcolo delle Variazioni*, CIRM - Levico, February 21–27 2010, “A reflection principle and the regularity of the nodal set of segregated critical configurations”

- CMAF, Centro de Matemática e Aplicações Fundamentais, Lisboa, March 18, 2010, “A reflection principle and the regularity of the nodal set of segregated critical configurations”
- *International Workshop on Variational, topological and Set-valued Methods for Nonlinear Differential Problems*, Messina, April 14-16, 2010, “Symbolic dynamics and parabolic trajectories in the n-centre and n-body problems”
- *8th AIMS International Conference on Dynamical Systems, Differential Equations and Applications*, Dresden, May 25–28, 2010,
 - Special Session Reaction Diffusion Systems: “A reflection principle and the regularity of the nodal set of segregated critical configurations”
 - Special Session Mechanical Systems: “Symbolic dynamics and parabolic trajectories in the n-centre and n-body problems”
- Conference *Mathematics and Applications*, Cagliari June 3-5 2010, “On some optimal partition problems”
- ICM Satellite Conference on PDE and Related Topics, TIFR-CAM Bangalore, India 13-17 August 2010, ‘On some optimal partition problems”
- *Group Actions in Topology and Analysis, the 4th GAF Conference*, Milano, September 14-17, 2010, “Equivariant solutions to the critical semilinear elliptic equation”
- Conference *Variational and Topological Methods in Nonlinear Phenomena*, Cortona, September 20–23, 2010, “On some optimal partition problems”
- *Riemann School in Mathematics on Nonlinear Differential Equations*, Verbania, September 26–October 1 2010, “On some optimal partition problems”
- Workshop on *Variational Methods in Nonlinear Differential Equations*, Oaxaca (Mexico), October 18-22 2010, “On some optimal partition problems”
- *Dixième Forum des Jeunes Mathématiciennes Analyse et Applications*, November 22 - 24 2010, CIRM (opening conference), “Periodic orbits, symbolic dynamics and parabolic trajectories in the N-centre and N-body problems”
- 2011**
 - Connection for Women–*Free boundary problems*, MSRI–Berkeley, January 13- 14, 2011, “On some optimal partition problems”
 - *Selected Topics in Spectral Theory*, Erwin Schrödinger Intitute (Vienna), January 19-26, 2011, “On some optimal partition problems”
 - PDE seminar, Minneapolis April 13, 2011
 - *The Fourteenth Rivière-Fabes Symposium on Analysis and PDE*, Minneapolis, April 15-17, 2011
 - MSRI-Evans Lecture, MSRI Berkeley, California April 25 2011
 - Workshop *Journée sur les quations de Schrödinger non linéaires et applications aux condensats de Bose Einstein*, Versailles, June 1, 2011
 - *International Conference on Nonlinear Partial Differential Equations and Applications*, (Hefei, China, August 1-7, 2011
 - *Nanjing Conference on Hamiltonian Dynamics*, Nanjin, August 21-28, 2011
 - *The 15th general meeting of European Women in Mathematics*, September 5-9, 2011, Centre de Recerca Matematica in Barcelona, Spain (plenary lecture)
 - *XIX Congresso Dell’Unione Matematica Italiana*, Bologna, 12-17 settembre 2011 (plenary lecture)
 - Workshop on *Nonlinear differential equations*, Pienza (Italy), November 7-11, 2011
 - Colloquia Patavina, Padova December 13 2011
- 2012**
 - Seminar, Universidad Autonoma de Madrid, February
 - Seminar, Università di Pisa
 - Seminar, SISSA March 19, 2012
 - *International Conference on Variational Methods and Nonlinear Partial Differential Equations*, Chinese Academy of Sciences, Beijing, April 16-19
 - *International Conference on Variational Methods (ICVAM-3)*, Chern Institute of Mathematics, Nankai University, Tianjin, China, May 21-25,
 - Workshop *Shape optimization problems and spectral theory*, CIRM Luminy, May 28-June 1st
 - *International Workshop on Partial Differential Equations*, Perugia, 28 May - 1 June 2012

- *Congresso SIMAI 2012, Special Session “Complex Systems”*. June 26 2012, Torino
- *The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications*, Orlando, Florida, USA July 1 - 5, (plenary)
- *α -class Summer School in Mathematics 2012*, Politecnico di Torino,, september 11-15 (lectio magistralis)
- *New perspectives in nonlinear PDE’s*, Rome, September 24-28, 2012
- *Séminaired’analyse et EDP* Université Libre de Bruxelles, Bruxelles November 9, 2012
- 2013** – *Seminario Problemi Differenziali Non Lineari* Università di Roma “La Sapienza”, April 11 2013
- *Seminari di Analisi Matematica* Università di Torino, 15 maggio 2013
- *Workshop Concentration phenomena and compactness issues in nonlinear PDE*, Mittag-Leffler Institute May 21th 2013
- *Geometric Methods in PDE*, INDAM Meeting in the occasion of the 70th birthday of Ermanno Lanconelli, Cortona, May 27-31 2013
- *Nonlinear Elliptic and Parabolic Partial Differential Equations*, Politecnico di Milano, June 19-21 2013
- *Mathematical Paradigms of Climate Science*, Istituto Nazionale di Alta Matematica Roma, June 14-28 2013
- *Variational methods and partial differential equations*, Workshop on the occasion of Michel Willem’s 60th birthday, Université Catholique de Louvain, Louvain-la-Neuve, July 11–12 2013
- *CELMEC VI, The Sixth International Meeting on Celestial Mechanics*, San Martino al Cimino, September 1-7, 2013
- *Workshop on nonlinear PDE and calculus of variations* Chern Institute of Mathematics, Nankai University, Tianjin, September 16-20, 2013
- *France-Taiwan Joint Conference on Nonlinear Partial Differential Equations*, National Taiwan University, Taipei, Taiwan, October 21-25, 2013
- *International conference on Recent developments of nonlinear PDEs*, Australian National University, during November 25-29, 2013
- 2014** – *GNAMPA school on Nonlinear Elliptic Problems*, January 20-24, 2014 Università di Milano-Bicocca
- *African Institute of Mathematical Sciences, Colloquium*, February 2014
- *”Workshop on Symplectic Dynamics and Hamiltonian Systems” (SyHaS)*, Chern Institute of Mathematics (CIM), Nankai University, Tianjin, China, May 19-23, 2014
- *Workshop Geometric Aspects of Semilinear Elliptic and Parabolic Equations: Recent Advances and Future Perspectives*, BIRS, Banff, May 25-30, 2014
- *A meeting with Louis Nirenberg*, Riemann International School of Mathematics Varese, Villa Toeplitz, June 13 2014
- *Partial differential equations and nonlinearities*. A conference in honor of Haïm Brezis, IHP Paris June 30-July 4 2014
- *The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications*, Madrid, July 7 - 11,
- *Conference Méthodes géométriques et variationnelles pour des EDPs non-linéaires*, Lyon (France), September 1-5, 2014.
- *Workshop Symplectic Techniques in Topology and Dynamics* University of Cologne, September 22 - 26, 2014
- *Workshop Navigare fra le stelle: il satellite Gaia, una nuova rivoluzione astrofisica?* Palazzo Lascaris, sede del Consiglio Regionale del Piemonte, Turin, november 14
- *Mathematics Colloquium*, Justus Liebig Universität, Gießen
- 2015** – *Congreso de la Real Sociedad Matemática Española, special session session Nonlinear Analysis and Elliptic PDEs*, Granada, February 2–6 2015
- *Winter School and Workshop Spectral theory and shape optimization problems for elliptic PDEs* University of di Milano-Bicocca, February 9-13
- *Conference Nonlinear Elliptic PDEs at the end of the World*, Universidad de Magallanes, Punta Arenas, Chile February 2 - 6, 2015

- Seminar, Laboratoire Jean Kuntzmann, Université Joseph Fourier, Grenoble, March 26, 2015
- Workshop *Geometric and spectral Analysis* Université Aix-Marseille, April 13–15, 2015
- Workshop *Recent trends in geometric analysis*, Carry-Le-Rouet (F), June 1-5, 2015
- Workshop *Nonlinear meeting in Turin*, University of Turin, June 16-17, 2015
- Workshop *Shape optimization and spectral geometry*, ICMS, Edinburgh, 29 June 3 July 2015
- Workshop *New advances in PDE's, Inverse Problems and Control Theory*, University of Parma, July 6-10, 2015