



Daniele Cassani

Curriculum Vitae

Professional experience

- 2017–Present **Associate Professor of Mathematical Analysis**, DEPARTMENT OF SCIENCE AND HIGH TECHNOLOGY, Università degli Studi dell'Insubria, Como.
- 2016–Present **President of RISM**, RIEMANN INTERNATIONAL SCHOOL OF MATHEMATICS, villa Toeplitz - Varese, Scientific Board: E. Bombieri (IAS - Princeton), R. Donagi (Univ. Pennsylvania), I. Ekeland (Univ. Paris Dauphine), M. Hairer (Imperial College - London), L. Nirenberg (CIMS - NY), A. Quarteroni (Politecnico Milano & EPFL).
- Institutional appointments:**
- 2018–Present **Member of the Board of Directors** (Consiglio di Amministrazione) of the Università degli Studi dell'Insubria.
- Member of the Evaluation Committee** for the XXXIV call of the PhD program in *Informatica e Matematica del Calcolo*, Università degli Studi dell'Insubria.
- Member of the Managing Board** of the Seminario Matematico e Fisico di Milano.
- 2017–Present **Member** of the University Counseling Committee (Commissione Orientamento).
- 2017 **Member** of the Committee for a comparative evaluation for Associate Professorship at Università degli Studi della Campania "Luigi Vanvitelli".
- 2016 **Member** of the Committee for the XXXII call of the PhD program in *Informatica e Matematica del Calcolo*.
- 2015 **Member** of the Ph.D. Commission for the final evaluation of XXVII-XXVIII round in "Matematica del Calcolo e Informatica", Università degli Studi dell'Insubria.
- 2015–2018 **Member** of the "Collegio di Disciplina (Disciplinary Board)" of the University of Insubria.
- Deputy Member** of the "Comitato Unico di Garanzia" of the University of Insubria.
- 2015–Present **Member** of the "FAR - Committee" for Mathematics, Computer Science and Engineering, in charge of managing research funds of the University.
- 2014–2016 **Deputy Director**, RISM.
- 2014–Present **Member** of the Managing Board of RISM.

*Department of Science and High Technology - University of Insubria & RISM
Riemann International School of Mathematics, Via G.B. Vico, 46 - 21100 Varese, Italy*

☎ +39 0332 21 8771

✉ daniele.cassani@uninsubria.it & daniele.cassani@pec.rism.it

🌐 <https://www.uninsubria.it/hpp/daniele.cassani>

Member of the Managing Board of Ph.D. School in “Informatica e Matematica del Calcolo”, Università degli Studi dell’Insubria.

2014 **Member** of the Committee for the XXX call of the PhD program in *Informatica e Matematica del Calcolo*.

Scientific appointments:

2017–Present **Visiting Professor**, CENTRO DE MATEMÁTICA, APLICAÇÕES FUNDAMENTAIS E INVESTIGAÇÃO OPERACIONAL, Universidade de Lisboa, Lisbon.

2012–2017 **Senior Research Fellow**, DEPARTMENT OF SCIENCE AND HIGH TECHNOLOGY, Università degli Studi dell’Insubria, Como.

2016 **Visiting Professor**, ZHEJIANG NORMAL UNIVERSITY, Jinhua, China.

Visiting Professor, OSAKA CITY UNIVERSITY, Japan.

2013 **Visiting Professor**, PONTIFÍCIA UNIVERSIDADE CATÓLICA DO RIO DE JANEIRO, Brazil.

2007–2011 **Lecturer**, DEP. OF MATHEMATICS, Politecnico di Milano, Faculty of Engineering.

Postdoctoral Research Fellow, DEPARTMENT OF MATHEMATICS, Università degli Studi di Milano.

2007 **Visiting Professor**, UNIVERSIDADE FEDERAL DE PARAIBA, Brazil.

2006–2007 **Postdoctoral Research Fellow**, PIMS, PACIFIC INSTITUTE FOR THE MATHEMATICAL SCIENCES, Director: Prof. Ivar Ekeland, The University of British Columbia, Vancouver, (Canada), Supervisor: Prof. Nassif Ghoussoub.

2001–2005 **PhD Scholarship**, UNIVERSITÀ DEGLI STUDI DI MILANO.

Other appointments:

1995–2000 Professional photographer, international experience.

Education

2005 **Ph.D. in Mathematics**, *Università degli Studi di Milano*, Advisor: Prof. Bernhard Ruf, Dissertation: *Nonlinear elliptic systems with critical growth*, Lambert Academic Publishing (2010), 70pp.

2001 **Master’s Degree in Mathematics**, *Univ. di Milano*, Summa cum laude.

Selected talks

2018 *New Critical Phenomena in Nonlinear Nonlocal Schrödinger equations*, Recent Advances in Nonlinear Analysis, Levico Terme - Trento.

Choquard type equations with Hardy-Littlewood-Sobolev upper- and lower-critical growth, Università di Roma la Sapienza.

Critical aspects of Choquard type equations, Politecnico di Milano.

2017 *Critical and supercritical Hamiltonian systems of Schrödinger equations in dimension two*, Two-day meeting on PDEs, Perugia.

Critical and supercritical Hamiltonian systems of Schrödinger equations in dimension two, Mostly Maximum Principle, BIRS, Banff - Canada.

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- Nonlocal MEMS equations: from direct to inverse problems and back*, Alfredo Lorenzi Analysis Seminar, University of Milano.
- Nonlocal near to local MEMS equations*, International Conference on Elliptic and Parabolic Problems, Gaeta.
- Nonlocal Schrödinger equations with Hardy-Littlewood-Sobolev critical exponents*, X Workshop on Nonlinear Differential Equations, University of Brasilia.
- Choquard type equations with H-L-S critical growth*, CMAF-CIO, Lisbon.
- 2016 *A priori estimates and semiclassical ground states for systems of critical Schrödinger equations in $\mathbb{R}^2$* , Zhejiang Normal University, Jinhua, China.
- A nonlocal Schrödinger equation in dimension two*, Osaka City University, Japan.
- 2015 *Pohozaev-Trudinger-Moser type inequalities via Zygmund spaces*, AMS, Spring Western Sectional Meeting, University of Nevada, Las Vegas.
- Supercritical systems of Schrödinger equations in dimension two*, Courant Institute of Mathematical Sciences, New York University.
- Hamiltonian systems of Schrödinger equations with supercritical exponential growth*, Università di Pisa.
- 2014 *Direct and inverse problems related to MEMS*, PDE's, Inverse Problems and Control Theory, Università degli Studi di Bologna.
- Singular nonlinearities in PDE and applications to MEMS*, AIMS Conference in Dynamical Systems, Differential Equations and Applications, Madrid.
- Moser type inequalities in the whole plane and the zero mass case*, AIMS Conference in Dynamical Systems, Differential Equations and Applications, Madrid.
- 2013 *Supercritical elliptic systems of Schrödinger equations in dimension two*, Università Mediterranea, Reggio Calabria.
- 2012 *A new insight into Moser's inequality*, Workshop on Nonlinear Differential Equations, Universidade Federal de Paraiba, Joao Pessoa, Brazil.
- Group invariance and Pohozaev identity in Moser type inequalities*, Workshop on Nonlinear Partial Differential Equations, Università degli Studi di Perugia.
- 2011 *A Moser inequality for the 1-bilaplacian*, Workshop on nonlinear PDEs and functional inequalities, Universidad Autonoma de Madrid.
- Moser inequalities in Zygmund spaces*, Università di Catania.
- 2010 *Borderline cases for second order Moser type inequalities*, Institut für Mathematik, Universität Basel.
- On the L^1 -borderline case for second order Moser type inequalities*, Università degli Studi di Milano Bicocca.
- Fourth order PDE with singular nonlinearities and applications to MEMS*, Università di Pisa.
- 2008 *On a Moser inequality in Lorentz-Sobolev spaces and applications to elliptic systems in $\mathbb{R}^N$* , Università dell'Insubria, Como.
- A Moser-type inequality in Lorentz-Sobolev spaces for unbounded domains, Liouville theorems and detours*, Cortona.

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- 2007 *Some function spaces new in PDE*, Workshop em Equações Diferenciais Parciais, Universidade Federal de Pernambuco, Recife, Brazil.
- 2006 *Nonlinear Elliptic Systems with Critical Growth*, PIMS seminars, University of British Columbia, Vancouver, Canada.

Chair teaching

- 2018–2019 **Advanced Analysis B**, Università degli Studi dell'Insubria, Master's Degree in Mathematics (Como).
Analisi Matematica A, Università degli Studi dell'Insubria, School of Engineering, Ingegneria per la Sicurezza del Lavoro e dell'Ambiente - ISLA (Varese).
- 2012–2018 **Analisi Matematica A**, ISLA (Varese).
Analisi Matematica B, ISLA (Varese).
- 2016–2017 **Advanced Analysis B**, Università degli Studi dell'Insubria (Como).
- 2014–2015 **Advanced Analysis B**, Master's Degree in Mathematics (Como).
- 2013–2014 **PhD course** on "Calculus of Variations and Applications", consorzio interuniversitario Me.S.E., Reggio Calabria.
- 2012–2013 **Analisi di Fourier**, Master's Degree in Mathematics (Como).
- 2011–2012 **Analisi Matematica 1 e Geometria**, Politecnico di Milano, School of Engineering, Ingegneria Gestionale.
PhD course on "Nonlocal higher order problems and applications to MEMS", Università Mediterranea di Reggio Calabria.
- 2010–2011 **Analisi Matematica 2**, Politecnico di Milano, Ing. dell'Informazione.
Analisi Matematica II, Politecnico di Milano, School of Eng., Ing. Gestionale.
Analisi Matematica e Geometria 2, Politecnico di Milano, Ing. Aerospaziale.
- 2009–2010 **Analisi Matematica II**, Politecnico di Milano, School of Eng., Ing. Gestionale.
Equazioni Differenziali, Politecnico di Milano, Ing. Civile e Ambientale.
Analisi Matematica 1, Politecnico di Milano, Ing. dell'Informazione.
Precorso di Matematica, Politecnico di Milano, School of Eng.
- 2008–2009 **Equazioni Differenziali alle Derivate Parziali**, Politecnico di Milano, School of Eng., Graduate course, Ing. Civile e Ambientale.
- 2007–2008 **Equazioni Differenziali Ordinarie** Politecnico di Milano, Ing. Civile e Ambientale.
Analisi Matematica B Politecnico di Milano, Ing. Civile e Ambientale.
PhD course on "Lorentz spaces and PDE", Universidade Federal de Paraiba (Joao Pessoa, Brasile) and Universidade Federal de Pernambuco (Recife, Brasile).
- 2006–2007 **MATH 200/253** (Multivariable Calculus), University of British Columbia, Vancouver, Canada: 2 terms.

Other professional contributions

PhD supervision:

- 2018–Present Marco Tarsia, Università di Pisa, *Tutoring*.

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2016–Present Delia Schiera, Università degli Studi dell'Insubria, *Advisor*.

Postdoc supervision:

2018–Present Dr. Luca Vilasi, Università di Messina.

Dr. Youjun Wang, South China University of Technology.

2016–2018 Dr. Jianjun Zhang, College of Mathematics and Statistics, Chongqing Jiaotong University. Current position: Full Professor in Mathematics.

Organization of Scientific Events:

2018–Present **Organizer** of the congress *Advances and Challenges in Nonlinear Analysis and... Beyond!* - On the occasion of Vieri Benci's 70th birthday, Univ. degli Studi di Bari.

Organizer of the sixth RISM school *RISM6 - Developments in stochastic Partial Differential Equations - in honour of Giuseppe Da Prato* (Director: Martin Hairer), Collegio C. Cattaneo, Varese (<http://www.rism.it>).

Organizer of the forthcoming RISM conference *XI Brazilian–Italian workshop on Nonlinear Differential Equations*, Collegio C. Cattaneo, Varese.

Organizer of the forthcoming Insubria International Summer School *Modelling the Cardiac Function - iHeart* (Director: Alfio Quarteroni), villa Toeplitz, Varese.

Organizer of the forthcoming workshop *Advances and Challenges in Nonlinear Elliptic Systems*, RISM, Varese.

Organizer of the second RISM course *Some New and Old Problems in the Calculus of Variations - by Arrigo Cellina*, RISM - villa Toeplitz, Varese.

Organizer of the RISM workshop *New Advances in PDE - in honor of Anna Maria Micheletti's birthday*, RISM.

Organizer of the forthcoming workshop *Mathematical Methods in Chemical Engineering and Beyond*, RISM.

Organizer of the forthcoming RISM course - by Vieri Benci, RISM.

2017 **Organizer** of the workshop *RISM workshop in PDE - On the occasion of Daniela Lupo's 60th birthday*, RISM.

Organizer of the fifth RISM school *RISM5–Topological and Algebraic Advances in QFT* (Director: Ron Donagi), RISM.

Organizer of the workshop *Mathematical Methods for Digital Image Analysis and Processing*, RISM.

Organizer of the RISM course *Between discrete and continuous structures* by Umberto Mosco.

2016 **Organizer** of the workshop *Nonlinear PDE, inequalities and Applications*, RISM.

Organizer of the congress *French-Italian Meeting on Spectral Triples in Noncommutative Geometry*, RISM.

Organizer of the IISS *Recursion, Integrability, Geometry, and Mechanics*, RISM.

Organizer of the fourth RISM School on *Nonlinear Phenomena in Mathematics and Economics* (Director: Ivar Ekeland), Collegio C. Cattaneo, Varese.

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- 2014 **Organizer** of the workshop *Optimal inequalities and PDE*, RISM.
Organizer of the congress *A meeting with Louis Nirenberg*, RISM.
Editorial Activity:
- 2009 **Collaborator** of *Ist. Enciclopedia Italiana fondata da G. Treccani*: author.
Collaborator of Garzanti publishing house: scientific supervisor.
- 2004–Present **Referee for:** *Acta Applicandae Mathematicae; Advances in Mathematical Physics; Advances in Nonlinear Analysis, Annali di Matematica Pura e Applicata; Applicable Analysis; Communications in Contemporary Mathematics; Discrete and Continuous Dynamical Systems; ESAIM: Control, Optimisation and Calculus of Variations; Journal of Fourier Analysis and Applications; Journal of Korean Mathematical Society; Journal of Mathematical Analysis and Applications; Journal of Mathematical Physics; International Journal of Nonlinear Sciences and Numerical Simulation; Mathematical Methods in Applied Sciences; Mathematische Annalen; Mathematische Nachrichten; Milan Journal of Mathematics; Nonlinear Analysis; Nonlinear Analysis: Real World Applications; Proceedings of the American Mathematical Society; Topological Methods in Nonlinear Analysis; Zeitschrift fuer Angewandte Mathematik und Physik.*
- Academic Memberships:**
- 2014–Present **Co-founder and Member** of the Riemann International School of Mathematics.
2001–Present **Member** of INdAM (Istituto Nazionale di Alta Matematica).
2001–Present **Member** of *Seminario Matematico e Fisico di Milano*.

Research interests

Nonlinear Analysis and Calculus of Variations, PDE and systems of PDE and applications to MEMS (Micro-Electro-Mechanical-Systems). Best constants in limiting cases of Sobolev embeddings, Pohozaev-Trudinger-Moser type inequalities and Hardy type inequalities. Maximum principle, inverse problems, image processing.

Research Funds

- 2018 **FFABR** - awarded of national research funds for fundamental research.
2015–Present **Supported** by Japanese research grants.
2014–Present **RISM** coordinator of national and international research grants.
2012–Present **FAR** - full budget from University Research Funds.
2011 **Supported** by the international Italia–Spagna integrated action program.
2007–Present **Supported** by Brazilian research grants.
2004–2012 **Supported** by national research funds PRIN.
2001–Present **Supported** by the national group GNAMPA.

Bibliographic indicators:

- Mathscinet: 23 papers, Citations 215, H-index 9.
- Scopus: 23 papers, Citations 231, H-index 9.
- WOS: 23 papers, Citations 221, H-index 9.

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◦ Google Scholar: 32 papers, Citations 352, H-index 12.

Publications

1. D. Cassani, *Existence and non-existence of solitary waves for the critical Klein–Gordon equation coupled with Maxwell’s equations*, Nonlinear Analysis **58** (2004), 733–747.
2. D. Cassani, *Remarks on a ‘Serrin curve’ for systems of differential inequalities*, Rend. Ist. Lombardo Cl. Sci. Mat. Nat. **140** (2006), 115–126 (2008).
3. D. Cassani, J.M. do Ó and N. Ghoussoub *On a fourth order elliptic problem with a singular nonlinearity*, Adv. Nonlinear Stud. **9** (2009), 189–209.
4. D. Cassani, *Lorentz-Sobolev spaces and systems of Schrödinger equations in $\mathbb{R}^N$* , Nonlinear Analysis **70** (2009), 2846–2854.
5. D. Cassani and C. Tarsi, *A Moser-type inequality in Lorentz-Sobolev spaces for unbounded domains in $\mathbb{R}^N$* , Asymptotic Analysis **64** (2009), 29–51.
6. D. Cassani, B. Kaltenbacher and A. Lorenzi *Direct and inverse problems related to MEMS*, Inverse Problems **25** (2009), 105002 (22pp).
7. D. Cassani, B. Ruf and C. Tarsi, *Best constants for Moser type inequalities in Zygmund spaces*, Matematica Contemporânea **36** (2009), 79–90.
8. D. Cassani, J.M. do Ó and A. Moameni, *Existence and concentration of solitary waves for a class of quasilinear Schrödinger equations*, Commun. Pure Appl. Anal. **9** (2010), 281–306.
9. D. Cassani, B. Ruf and C. Tarsi *Best constants in a borderline case of second order Moser type inequalities*, Ann. Inst. H. Poincaré Anal. Non Linéaire **27** (2010), 73–93.
10. E. Berchio, D. Cassani and F. Gazzola *Hardy-Rellich inequalities with boundary remainder terms and applications*, Manuscripta Mathematica **131** (2010), 427–458.
11. D. Cassani, L. Fattorusso and A. Tarsia, *Global existence for nonlocal MEMS*, Nonlinear Analysis **74** (2011), 5722–5726.
12. D. Cassani, B. Ruf and C. Tarsi, *Group invariance and Pohozaev identities in Moser type inequalities*, Comm. Contemp. Math. **15** (2013), 1250054 (20pp).
13. D. Cassani, B. Ruf and C. Tarsi, *Optimal Sobolev-type inequalities in Lorentz spaces*, Potential Analysis **39** (2013), 265–285.
14. D. Cassani, B. Ruf and C. Tarsi, *A Moser type inequality in Zygmund spaces without boundary conditions*, Contemporary Mathematics **595** (2013), Recent Trends in Nonlinear Partial Differential Equations II: Stationary Problems, (22pp).
15. D. Cassani, L. Fattorusso and A. Tarsia, *Nonlocal dynamic problems with singular nonlinearities and applications to MEMS*, Progress in Nonlinear Differential Equations and their Applications, Birkhäuser (2014), (22 pp).
16. Z.-J. Bai, D. Cassani, M. Donatelli and S. Serra Capizzano, *A Fast Alternating Minimization Algorithm for Total Variation Deblurring Without Boundary Artifacts*, J. Math. Anal. Appl. **415** (2014), 373–393.

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17. D. Cassani, F. Sani and C. Tarsi, *Equivalent Moser type inequalities in $\mathbb{R}^2$ and the zero mass case*, J. Funct. Anal. **267** (2014), 4236–4263.
18. D. Cassani and C. Tarsi, *Existence of solitary waves for supercritical Schrödinger systems in dimension two*, Calc. Var. Partial Differential Equations **54** (2015), 1673–1704.
19. D. Cassani and A. Tarsia, *Periodic solutions to nonlocal MEMS equations*, Discrete Contin. Dyn. Syst. Ser. S. **9** (2016), pp. 631–642.
20. C. Alves, D. Cassani, C. Tarsi and M. Yang, *Existence and concentration of ground state solutions for a critical nonlocal Schrödinger equation in $\mathbb{R}^2$* , Journal of Differential Equations **261** (2016), 1933–1972.
21. D. Cassani, J.M. do Ó and Jianjun Zhang, *Multi-bump solutions for singularly perturbed Schrödinger equations in $\mathbb{R}^2$ with general nonlinearities*, Topol. Methods Nonlinear Anal. **49** (2017), 205–231.
22. D. Cassani and J. Zhang, *A priori estimates and positivity for semiclassical ground states for systems of critical Schrödinger equations in dimension two*, Comm. Partial Differential Equations **42** (2017), 655–702.
23. D. Cassani, B. Ruf and C. Tarsi, *On the capacity approach to non-attainability of Hardy's inequality in $\mathbb{R}^n$* , Discrete Contin. Dyn. Syst. Ser. S. **12** (2019), 245–250.
24. D. Cassani and J. Zhang, *Choquard type equations with Hardy-Littlewood-Sobolev upper-critical growth*, Adv. Nonlinear Anal. DOI: 10.1515/anona-2018-0019
25. D. Cassani, J. Van Schaftingen and J. Zhang, *Groundstates for Choquard type equations with Hardy-Littlewood-Sobolev lower critical exponent*, to appear in Proc. Roy. Soc. Edinburgh Sect. A.
26. D. Cassani, B. Ruf and C. Tarsi, *Equivalent and attained version of Hardy's inequality in $\mathbb{R}^n$* , J. Funct. Anal. **275** (2018), 3303–3324.
27. D. Cassani, C. Tarsi and J. Zhang, *Bounds for best constants in subcritical Sobolev embeddings*, Submitted 2018.
28. D. Cassani, Z. Liu, C. Tarsi and J. Zhang, *Multiplicity of sign-changing solutions for Kirchhoff type equations*, Submitted 2018.
29. D. Cassani, H. Tavares and J. Zhang, *Bose fluids and positive solutions of weakly coupled systems with critical growth in dimension two*, Submitted 2018.

Survey papers

30. Series *Le Garzantine*, MATEMATICA, Garzanti (2014), pp. 1536. Editors: Maraschini–Palma, Scientific Revisor: D. Cassani. ISBN 978-88-11-50525-9
31. D. Cassani, L. Fattorusso and A. Tarsia, *Nonlocal singular problems and applications to MEMS*, IAENG, Proceedings of the World Congress on Engineering Vol. **II** (2013).
32. D. Cassani, Lemmi: *equazione di Euler-Lagrange; Equazioni ellittiche non lineari; Metodo del moving plane; Metodo di concentrazione-compattatezza; Principio variazionale; Problemi di omogeneizzazione; Punti stazionari*, Enciclopedia della Scienza e della Tecnica, vol. VI, Ist. Enciclopedia Italiana fondata da G. Treccani (2008).

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Preprints and papers in preparation

33. D. Cassani, F. Messina, T. Miyasita and A. Tarsia, *A Brezis-Cazenave type result and the pull-in instability conjecture for MEMS equations.*
34. D. Cassani and C. Tarsi, *Choquard type equations in dimension two.*
35. D. Cassani, D. Schiera and J. Zhang *Uniqueness and non-degeneracy of groundstates for Choquard type equations.*
36. D. Cassani and D. Schiera, *Uniqueness results for higher order Lane-Emden type systems.*
37. D. Cassani and A. Tarsia, *Maximum principle for higher order operators in general domains.*
38. D. Cassani, D.D. Felix and E.S. Medeiros, *Embedding of $W_\gamma^{1,p}(\mathbb{R}^2)$ into Orlicz spaces and applications.*
39. D. Cassani and C. Tarsi, *Supercritical Hamiltonian elliptic systems on bounded domains in dimension two.*
40. D. Cassani, J.M. Do Ó and J. Zhang, *Critical and supercritical Hamiltonian systems of PDE in bounded domains.*

Varese, November 19th, 2018

Signature: Daniele Cassani

Department of Science and High Technology - University of Insubria & RIFM
Riemann International School of Mathematics, Via G.B. Vico, 46 - 21100 Varese, Italy

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