

**Silvia Cingolani**  
**CURRICULUM VITAE**

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**Education:**

- Degree in Mathematics, University of Bari. Degree thesis: *Teoria di Morse e sistemi dinamici asintoticamente lineari*. Supervisor Prof. Dino Fortunato. Vote: 110/110 *cum laude* (December 14, 1993)
- Winner of C.N.R. (Consiglio Nazionale delle Ricerche) fellowship in Mathematics. Supervisor: Prof. Prof. Donato Fortunato (1993–1994).
- Winner of I.N.d.A.M. (Istituto Nazionale di Alta Matematica) fellowship, Rome (1994)
- First place ex-aequo at the selection of Ph.D. scholarship at Scuola Normale of Pisa. Vote: 158/160 (December 1994)
- Ph.D. student in Mathematics at Scuola Normale Superiore of Pisa (1995–1996)
- Ph.D. in Mathematics, Scuola Normale Superiore of Pisa. Ph.D.Thesis: *Variational Methods and Non-linear Schrödinger Equations*. Supervisor Prof. Antonio Ambrosetti. Vote: 70/70 *cum laude* (November 10, 1998)

**Awards:**

- Winner of the Prize *Benedetto Sciarra*, Scuola Normale Superiore of Pisa (1996)

**Academic Positions:**

- Researcher in Mathematical Analysis at Polytechnic University of Bari (May 8, 1996 – November 30, 2002)
- Associate Professor in Mathematical Analysis at Polytechnic University of Bari (December 1, 2002 – June 11, 2017)
- National Scientific Habilitation to Full Professorship (scientific disciplinary sector: 01/A3 - Mathematical Analysis, Probability and Mathematical Statistics) (December 30, 2013)
- Full Professor in Mathematical Analysis at University of Bari Aldo Moro (June 12, 2017 – present)

**Research Interests:** Nonlinear Partial Differential Equations, Variational and topological methods in nonlinear analysis, Critical Point theory

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*Date:* September 17, 2018.

**Bibliometric Data (update 17-9-18):**

1287 citations on Mathscinet by 487 authors (h-index 16)

1224 citations on Scopus (h-index 15)

1180 citations on Web of Science (h-index 15)

1844 citations on Google Scholar (h-index 20)

**Selected Visits and Seminars:**

**1997** Universidad de Granada, Departamento de Análisis Matemático, invited by Prof. David Arcoya. Title of the seminar: *Multiple positive solutions for nonlinear Schrödinger equations.*

**2000** University of Rome III, Department of Mathematics, invited by Prof. Gianni Mancini. Title of the seminar: *Soluzioni asimmetriche per una classe di problemi ellittici non lineari.*

**2001** SISSA (Scuola Internazionale Superiore di Studi Avanzati), Trieste, invited by Prof. Antonio Ambrosetti. Title of the seminar: *Multiple semiclassical stationary states of nonlinear Schrödinger equations with electromagnetic fields.*

**2001** Universidad Autonoma de Madrid, invited by Prof. Ireneo Peral. Title of the seminar: *Critical groups computations for a class of functionals associated to quasilinear elliptic problems via Morse index.*

**2002** University of Pisa, Department of Mathematics, invited by Prof. Antonio Marino. Title of seminar: *Stime di gruppi critici per una classe di funzionali associati a equazioni ellittiche che coinvolgono il  $p$ -laplaciano.*

**2002** Ecole Polytechnique Federale de Lausanne, invited by Prof. Charles Stuart. Title of the seminar: *Morse theory and critical groups computations for a class of functionals defined in Banach spaces.*

**2003** University of Rome "La Sapienza", Department of Mathematics, invited by Prof. Filomena Pacella.

**2004** University of Rome "La Sapienza", Department of Mathematical Methods and Models, invited by Prof. Angela Pistoia. Title of the seminar: *Morse index and nontrivial solutions for  $p$ -Laplace equations.*

**2007** University of Rome "La Sapienza", Department of Mathematical Methods and Models, invited by Prof. Angela Pistoia.

**2011** University of Milan, Department of Mathematics, invited by Prof. Bernhard Ruf. Title of the seminar: *Some results on a magnetic nonlinear Choquard equation.*

**2011** Université de Franche-Comté, Laboratoire de Mathématiques UMR CNRS, Besancon Cedex, France, invited by Prof. Louis Jeanjean. Title of the seminar: *Intertwining standing waves for magnetic nonlinear Choquard equation.*

**2012** Karlsruher Institut für Technologie, invited by Prof. Wolfgang Reichel. Title of the seminar: *Morse theory for quasilinear elliptic problems.*

**2013** University of Calabria, invited by Prof. A. Canino. Title of the seminar: *Morse index estimates and uniform Sobolev inequalities for  $p$ -Laplace equations.*

**2014** Université Libre de Bruxelles, invited by Prof. Denis Bonheure. Title of the seminar: *Semiclassical standing waves for Nonlinear Schrödinger Equations via the topology of a potential well.*

**2015** Université Libre de Bruxelles, invited by Prof. Denis Bonheure (September 2015).

**2016** University of Stockholm, invited by Prof. Andrzej Szulkin (July 2016).

**2017** Waseda University of Tokyo, invited by Prof. Kazunaga Tanaka (February 2017).

**Invited Speaker at International Workshops:**

- 1997** Title of the seminar: *Positive solutions for a class of equations with discontinuous nonlinearities in unbounded domains*, Workshop “Nonlinear Boundary Value problems”, Torino (September 10–12).
- 1998** Title of the seminar: *Asymmetric standing waves in symmetric nonlinear optical waveguides*, International Workshop on “Variational Methods and Partial Differential Equations in Mathematical Physics”, Scuola Normale Superiore di Pisa, Pisa (February 17–26).
- 1999** Title of the seminar: *Metodi variazionali e topologici nello studio delle equazioni di Schrödinger nonlineari agli stati stazionari*, XVI Congresso Unione Matematica Italiana, (conferenza su invito (30 minuti) per giovani ricercatori), Napoli (September 13–16).
- 2000** Title of the seminar: *Asymmetric solutions for symmetric problems arising in Nonlinear Optics*, “Third World Congress of Nonlinear Analysts”, Catania (July 19–26).
- 2001** Title of the seminar: *Critical groups computations on a class of functional defined on Banach Spaces*, International Workshop “Nonlinear Differential equations”, Bergamo (July 9–13).
- 2002** Title of the seminar: *Morse theory for a class of functionals associated to quasilinear elliptic problems*, International Workshop “Calculus of Variations in Nonlinear Phenomena”, Martina Franca (September 23–27).
- 2003** Title of the seminar: *Multiple solutions for quasilinear elliptic problems via Morse theory*, “Equadiff 2003”, International Conference on Differential Equations, Hasselt (Belgium) (July 22–26) .
- 2004** Title of the seminar: *Morse theory and nontrivial solutions for  $p$ -laplace equations*, “Variational methods and Nonlinear Schrödinger equations”, Bernouilli Centre, Ecole Polytechnique Federale de Lausanne, Lausanne (Switzerland) (February 9–13).
- 2006** Title of the seminar: *Quasilinear field equations and Morse theory*, International Workshop “Current Trends in Nonlinear Analysis”. Conference in honor of the 60-th birthday of Prof. Donato Fortunato, Otranto (June 12–16).
- 2009** Title of the seminar: *Intertwining semiclassical bound states for Nonlinear magnetic Schrödinger equation*, 6th European Conference on Elliptic and Parabolic Problems, Gaeta (May 3–6).
- 2009** Title of the mini-course: *Morse index estimates and applications to quasilinear elliptic problems* Part I. Part II, The first Bicocca Junior Workshop on Nonlinear PDE’s and Variational Methods, Università di Milano-Bicocca (June 18–19).
- 2010** *Gender Equality in Science*, Le prospettive del Progetto “STReGA”, Lecce (January 21).
- 2010** Title of the seminar: *Intertwining semiclassical solutions for the Schrödinger-Newton equations*, International Workshop on “Variational Methods in Nonlinear Differential equations”, Oaxaca (Mexico) (October 17–22).
- 2011** Title of the seminar: *Intertwining solutions for a magnetic nonlinear Choquard equation*, International Workshop on “Nonlinear Differential Equations”, Pienza (November 7–11).
- 2012** Title of the seminar: *Multiple solutions to a magnetic nonlinear Choquard equation*, 7th European Conference of Elliptic and Parabolic Problems, Gaeta (May 21–25).
- 2012** Title of the seminar: *Local Morse theory for quasilinear elliptic problems*, Nonlinear PDE Days: Variational Methods in Mathematical Physics, Karlsruher Institut für Technologie, Karlsruhe (Germany) (July 17–18).
- 2013** Title of the seminar: *Morse index estimates and uniform Sobolev inequalities for  $p$ -Laplace equations*, Variational and Topological Methods in the study of Nonlinear Phenomena, Alghero (June 24–28).
- 2013** Title of the seminar: *Morse index estimates for  $p$ -Laplace equations via uniform Sobolev inequalities*, Variational Methods and Partial Differential Equations, Workshop on the occasion of Michel Willem’s 60th birthday, Louvain-la-Neuve (Belgium) (July 11–12).

**2013** Title of the seminar: *Semiclassical bound states for nonlinear Schrödinger equations via the topology of a potential well*, Dispersive PDEs: models and dynamics, Pisa (September 18-20).

**2014** Title of the seminar: *Multiple positive solutions of nonlinear Schrödinger equations concentrating at a potential well*, 8th European Conference of Elliptic and Parabolic Problems, Gaeta (May 26–30).

**2015** Title of the seminar: *Concentration on circles for magnetic Nonlinear Schrödinger Equations*, Variational and Topological Methods in the study of nonlinear problems, Workshop on the occasion of Charles Stuart's 70th birthday, Besancon (France) (June 29– July 1).

**2016** Title of the seminar: *Some results for a planar Choquard type equation*, Achievements and Perspectives in Nonlinear Analysis, on the occasion of Donato Fortunato's 70th birthday, Bari (June, 14–17).

**2017** Title of the seminar: *On the Logarithmic Choquard Equation Sharp asymptotics and nondegeneracy of the groundstate of the logarithmic Choquard equation*, Rome CAPUT PDE, Roma (January 23–26).

**2017** Title of the seminar: *Sharp asymptotics and nondegeneracy of the groundstate of the logarithmic Choquard equation*, Nonlinear days in Turin, Torino (September 21-22).

**2018** Title of the seminar: *A new variational approach for the nonlinear Choquardequation*, New Advances in PDE, Workshop on the occasion of Anammaria Micheletti's birthday, Riemann International School of Mathematics, Varese (September 6-7).

**2018** Title of the seminar: *A new variational approach for the nonlinear Choquard equation*, Nonlinear Analysis & PDEs, Caserta (September 10-14).

### Organization of International Conferences:

- Organization Committee Member of the XXVIII Congresso dell' Unione Matematica Italiana, September 24-29 (2007) Bari, Italy.
- Scientific Committee Member of the Workshop *Primo Incontro delle Donne del Laplaciano*, June 13-16 (2008), Cortona, Italy.
- Organization Committee Member of the International Workshop *Second Meeting of Women of the Laplacian*, June 3-6 (2010), Monopoli (Bari), Italy.
- Scientific Committee Member of the International Workshop *Critical Point Theory and Nonlinear Differential Problems*, September 02-04 (2015), Canazei (Dolomites), Italy.
- Organizer of the Thematic Section "Schrödinger equations", International Workshop *Workshop in Nonlinear PDEs*, September 07-11 (2015), Université libre de Bruxelles, Bruxelles, Belgium.
- Organizer of the Mini-Symposium "PDEs around the world", International Workshop *EWM General Meeting 2018*, September 03-07 (2018), Graz, Austria.

### Accademic Appointments:

- Member of the Directing Board of the PhD program in Mathematics. Cycles: XXII, XXIII, XXIV, XXV, XXVI, XXVII, XXVIII, University of Bari (2006–2012).
- Scientific Coordinator of the INdAM (Istituto Nazionale di Alta Matematica) Research Group of Polytechnic University of Bari (2014–2017).
- Member of the Directing Board of the PhD program in Mechanical Engineering, Polytechnic University of Bari (2014–2016).
- Member of the Directing Board of the PhD program in Computer Sciences and Mathematics, University of Bari Aldo Moro (2017–present).

**Thesis Advisor:**

- Maria Luigia De Mico, Degree Thesis, University of Bari, “Principi di mini-max ed equazioni ellittiche con il p-laplaciano”, 2004
- Sara Barile, PhD. Thesis, University of Bari, “Existence of solutions for some nonlinear elliptic problems”, 2006
- Sabina Guastamacchia, Degree Thesis, Polytechnic University of Bari, “Studi sperimentali per la qualificazione delle murature con la prova microsismica a bassa frequenza”, 2011

**Teaching Activity:**

*Mathematical Analysis I, Mathematical Analysis II, Differential Equations:* as Assistant Professor for students in Mechanical Engineering, Building Engineering, Electronic Engineering, Management Engineering, Computer Engineering, Civil Engineering at Polytechnic University of Bari (May 1996 – November 2002).

*Mathematical Analysis I, Mathematical Analysis II* as Professor for students in Computer and Automatic Engineering, Mechanical Engineering, Electric Engineering, Building Engineering, Architectural-Building Engineering, Management Engineering, Medical Systems Engineering, Polytechnic University of Bari (December 2002 – May 2017).

**Research Evaluation Activity:**

*Referee for journals:* Acta Mathematica Scientia; Advanced Nonlinear Studies; Advances in Nonlinear Analysis; Annali di Matematica Pura e Applicata; Archiv der Mathematik; Boundary Value Problems; Calculus of Variations and Partial Differential Equations; Communications in Applied Analysis; Communications in Contemporary Mathematics; Communications on Partial Differential Equations; Communications on Pure and Applied Analysis; Complex Variables and Elliptic Equations; Differential and Integral Equations; Electronic Journal of Differential Equations; ESAIM: Control, Optimisation and Calculus of Variations; Funkcialaj Ekvacioj; International Journal of Mathematics and Mathematical Sciences; Israel Journal of Mathematics; Journal of Differential Equations; Journal of Fixed Point Theory and Applications; Journal of Functional Analysis; Journal of London Mathematical Society; Journal of Mathematical Analysis and Applications; Journal of Optimization Theory and Applications; Manuscripta Mathematica; Mathematische Zeitschrift; Mediterranean Journal of Mathematics; Memoirs of the American Mathematical Society; Nonlinear Analysis Theory, Methods and Applications; Nonlinear Differential Equations and Applications NoDea; Quarterly of Applied Mathematics; Pacific Journal of Mathematics; Proceeding of the Royal Society of Edinburgh; Rendiconti del Seminario Matematico dell' Università di Padova; SIAM Journal Mathematical Analysis; Topological Methods in Nonlinear Analysis; Zeitschrift für angewandte Mathematik und Physik (ZAMP).

Referee for Mathematical Reviews.

On the behalf of the National Chilean Commission for Scientific and Technological Development (CONICYT) and the Superior Council of the National Fund for Scientific & Technological Development (FONDECYT), referee for a proposal 2012, a proposal 2013 and a proposal 2017

On the behalf of M.I.U.R., referee for a Firb Project 2012.

**Editor Activity:**

(2012/2016) Member of the Editorial Board of “*Abstract and applied Analysis*”, Hindawi Publishing Corporation

(2018/–) Member of the Editorial Board of “*Mediterranean Journal of Mathematics*” (MedJM), Birkhauser Basel (<https://www.springer.com/birkhauser/mathematics/journal/9>)

**Grants:**

- Co-investigator in PRIN Projects: *Variational Methods and nonlinear differential equations* by MIUR (Ministero Istruzione Università e Ricerca, Italy), P.I.: Prof. A. Ambrosetti (1995/1996, 1997/98).
- Co-investigator of a Project “Azione Integrata Italia-Spagna” (2001).
- Co-investigator in PRIN Projects: *Variational and topological methods in the study of nonlinear phenomena* by MIUR (Ministero Istruzione Università e Ricerca, Italy), P.I.: Prof. V. Benci. (2001/2002, 2003/2004, 2005/2006, 2007/2008, 2009/2010).
- Co-investigator of a Project: “Azione Integrata Italia-Spagna” (2009).
- Principal investigator of Gnampa’s Project *Problemi ellittici con termini non locali*, by Istituto Nazionale Alta Matematica, Italy (2011/12).
- Principal investigator of Gnampa’s Project *Metodi Variazionali e problemi ellittici non lineari*, by Istituto Nazionale Alta Matematica, Italy (2012/13).
- Principal investigator of Gnampa’s Project *Problemi differenziali di tipo ellittico nei fenomeni fisici non lineari*, by Istituto Nazionale Alta Matematica, Italy (2013/14).
- Principal investigator of Gnampa’s Project *Aspetti differenziali e geometrici nello studio di problemi ellittici quasilineari*, by Istituto Nazionale Alta Matematica, Italy (2014/15).
- Principal investigator of Gnampa’s Project *Analisi variazionale di modelli fisici non lineari*, by Istituto Nazionale Alta Matematica, Italy (2015/16).
- Principal investigator of Gnampa’s Project *Studio variazionale di problemi fisici non lineari*, by Istituto Nazionale Alta Matematica, Italy (2016/17).
- Co-investigator of Gnampa’s Project *Metodi variazionali nei problemi fisici non lineari*, by Istituto Nazionale Alta Matematica, Italy (2017/18).

**Membership:**

Member of Unione Matematica Italiana.

Member of Istituto Nazionale di Alta Matematica.

Member of European Women in Mathematics ( <http://www.europeanwomeninmaths.org/> ).

**Ph.D. Thesis:**

S. Cingolani, *Variational Methods and Nonlinear Schrödinger equations*, Ph.D. Thesis, Scuola Normale Superiore of Pisa, 1998.

**Published or Accepted Papers:**

1. Silvia CINGOLANI, Lorenzo PISANI, Poincaré-Birkhoff results for Lagrangian systems with subquadratic potential, *Proceedings of the Royal Society of Edinburgh Section A*, vol. 125 (1995), no. 6, 1169-1177
2. Silvia CINGOLANI, Existence and multiplicity results for a semilinear elliptic equation on  $\mathbb{R}^N$ , *Communications on Applied Nonlinear Analysis*, vol. 2 (1995), no. 4, 31-42
3. Silvia CINGOLANI, Elvira MIRENGHI, Maria TUCCI, Periodic orbits and subharmonics of dynamical systems on non compact Riemannian manifolds, *Journal of Differential Equations*, vol. 130 (1996), no. 1, 142-161

4. Silvia CINGOLANI, José Luis GÁMEZ, Positive solutions of a semilinear elliptic equation on  $\mathbb{R}^N$  with indefinite nonlinearity, *Advances in Differential Equations*, vol. 1 (1996), no. 5, 773-791
5. Antonio AMBROSETTI, Marino BADIALE, Silvia CINGOLANI, Semiclassical states of nonlinear Schrödinger equations with bounded potentials, *Atti della Accademia Nazionale dei Lincei. Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti Lincei Serie IX Matematica e Applicazioni*, vol. 7 (1996), no.3, 155-160
6. Antonio AMBROSETTI, Marino BADIALE, Silvia CINGOLANI, Semiclassical states of nonlinear Schrödinger equations, *Archive of Rational Mechanics and Analysis*, vol. 140 (1997), no. 3, 285-300
7. Silvia CINGOLANI, Monica LAZZO, Multiple semiclassical standing waves for a class of nonlinear Schrödinger equations, *Topological Methods in Nonlinear Analysis*, vol. 10 (1997), no. 1, 1-13
8. Silvia CINGOLANI, Margherita NOLASCO, Multi-peak periodic semiclassical states for a class of nonlinear Schrödinger equations, *Proceedings of the Royal Society of Edinburgh Section A*, vol. 128 (1998), no. 6, 1249-1260
9. Silvia CINGOLANI, Monica LAZZO, Juan Francisco PADIAL, Multiple radial solutions for a class of elliptic systems with singular nonlinearities, *Annali di Matematica Pura ed Applicata. Series IV*, vol. 175 (1998), 365-373
10. Silvia CINGOLANI, On a perturbed semilinear elliptic equation in  $\mathbb{R}^N$ , *Communications in Applied Analysis*, vol. 3 (1999), no. 1, 49-57
11. Silvia CINGOLANI, Monica LAZZO, Multiple periodic solutions for autonomous conservative systems, *Topological Methods in Nonlinear Analysis*, vol. 14 (1999), no. 1, 159-167
12. David ARCOYA, Silvia CINGOLANI, José Luis GÁMEZ, Asymmetric modes in symmetric nonlinear optical waveguides, *SIAM Journal on Mathematical Analysis*, vol. 30 (1999), no. 6, 1391-1400
13. Silvia CINGOLANI, Monica LAZZO, Multiple positive solutions to nonlinear Schrödinger equations with competing potential functions, *Journal of Differential Equations*, vol. 160 (2000), no. 1, 118-138
14. Silvia CINGOLANI, José Luis GÁMEZ, Asymmetric positive solutions for a symmetric nonlinear problem in  $\mathbb{R}^N$ , *Calculus of Variations and Partial Differential Equations*, vol. 11 (2000), no. 1, 97-117
15. Silvia CINGOLANI, Monica LAZZO, Discontinuous elliptic problems in  $\mathbb{R}^N$  without monotonicity assumptions, *Commentationes Mathematicae Universitatis Carolinae*, vol. 42 (2001), no. 3, 451-458
16. Silvia CINGOLANI, Variational and topological methods in the study of nonlinear Schrödinger equations with stationary states, *Bollettino della Unione Matematica Italiana Serie VIII, Sezione B, Articoli di Ricerca*, vol. 4, (2001), no. 2, 319-343
17. Silvia CINGOLANI, Asymmetric solutions for symmetric problems arising in Nonlinear Optics, *Nonlinear Analysis: Theory, Methods and Applications*, vol. 47 (2001), no. 9, 6053-6063
18. Silvia CINGOLANI, Giuseppina VANNELLA, Some results on critical groups for a class of functionals defined on Sobolev Banach spaces, *Atti della Accademia Nazionale dei Lincei. Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti Lincei Serie IX Matematica e Applicazioni*, vol. 12 (2001), 199-203
19. Silvia CINGOLANI, Positive solutions to perturbed elliptic problems in  $\mathbb{R}^N$  involving critical Sobolev exponent, *Nonlinear Analysis: Theory, Methods and Applications*, vol. 48 (2002), no. 8, 1165-1178
20. Silvia CINGOLANI, Simone SECCHI, Semiclassical limit for nonlinear Schrödinger equations with electromagnetic fields, *Journal of Mathematical Analysis and Applications*, vol. 275 (2002), no. 1, 108-130
21. Silvia CINGOLANI, Giuseppina VANNELLA, Critical groups computations on a class of Sobolev Banach spaces via Morse index, *Annales de l'Institut Henri Poincaré. Analyse Non Linéaire*, vol. 20 (2003), no. 2, 271-292

22. Silvia CINGOLANI, Semiclassical stationary states of nonlinear Schrödinger equations with an external magnetic field, *Journal of Differential Equations*, vol. 188 (2003), no. 1, 52-79
23. Jose CARMONA, Silvia CINGOLANI, Giuseppina VANNELLA, Estimates for critical groups of solutions to quasilinear elliptic systems, *Electronic Journal of Differential Equations* (2003), No. 78, 13 pp.
24. Silvia CINGOLANI, Giuseppina VANNELLA, Morse index computations for a class of functionals defined in Banach spaces, *Nonlinear equations: methods, models and applications (Bergamo 2001)*, pp. 107–116 in "Progress in Nonlinear Differential Equations and Their Applications", vol. 54, Birkhäuser, Basel 2003
25. Silvia CINGOLANI, Angela PISTOIA, Nonexistence of single blow-up solutions for a nonlinear Schrödinger equation involving critical Sobolev exponent, *Zeitschrift für Angewandte Mathematik und Physik (ZAMP)*, vol. 55 (2004), no. 2, 201-215
26. Silvia CINGOLANI, On Morse theory for a class of quasilinear elliptic equations involving p-Laplace operator, EQUADIFF 2003, 534-539, World Scientific Publishing, Hackensack, NJ, 2005
27. Silvia CINGOLANI, Monica LAZZO, Giuseppina VANNELLA, Multiplicity results for a quasilinear elliptic system via Morse theory, *Communications in Contemporary Mathematics*, vol.7 (2005), no.2, 227–249
28. Silvia CINGOLANI, Marco DEGIOVANNI, Nontrivial solutions for p-Laplace equations with right-hand side having p-linear growth at infinity, *Communications in Partial Differential Equations*, vol. 30 (2005), no. 7-9, 1191-1203
29. Silvia CINGOLANI, Simone SECCHI, Semiclassical states for NLS equations with magnetic potentials having polynomial growths, *Journal of Mathematical Physics*, vol.46 (2005), no. 5, 053503, 19 pp.
30. Silvia CINGOLANI, Giuseppina VANNELLA, Morse index and critical groups for p-Laplace equations with critical exponents, *Mediterranean Journal of Mathematics*, vol.3 (2006), no. 3-4, 495-512
31. Sara BARILE, Silvia CINGOLANI, Simone SECCHI, Single-peaks for a magnetic Schrödinger equation with critical growth, *Advances in Differential Equations*, vol.11 (2006), no. 10, 1135-1166
32. Silvia CINGOLANI, Giuseppina VANNELLA, Marino-Prodi perturbation type results and Morse indices of minimax critical points for a class of functionals in Banach spaces, *Annali di Matematica Pura e Applicata. Series IV*, vol. 186 (2007), no.1, 155-183
33. Silvia CINGOLANI, Louis JEANJEAN, Simone SECCHI, Multi-peak solutions for magnetic NLS equations without non-degeneracy conditions, *ESAIM: Control, Optimisation and Calculus of Variations*, vol.15 (2009), no. 3, 653-675
34. Silvia CINGOLANI, Giuseppina VANNELLA, Multiple positive solutions for a critical quasilinear equation via Morse theory, *Annales de l'Institut Henri Poincaré. Analyse Non Linéaire*, vol. 26 (2009), no. 2, 397-413
35. Silvia CINGOLANI, Monica CLAPP, Intertwining semiclassical bound states to a nonlinear magnetic Schrödinger equation, *Nonlinearity*, vol. 22 (2009), no. 9, 2309–2331
36. Silvia CINGOLANI, Giuseppina VANNELLA, On the multiplicity of positive solutions for p-Laplace equations via Morse theory, *Journal of Differential Equations*, vol. 247 (2009), no. 11, 3011–3027
37. Silvia CINGOLANI, Marco DEGIOVANNI, On the Poincaré-Hopf Theorem for functionals defined on Banach Spaces, *Advanced Nonlinear Studies*, vol. 9 (2009), no. 4, 679-699
38. Silvia CINGOLANI, Simone SECCHI, Marco SQUASSINA, Semi-classical limit for Schrödinger equations with magnetic field and Hartree-type nonlinearities, *Proceedings of the Royal Society of Edinburgh Section A*, vol. 140 (2010), no. 5, 973–1009
39. Silvia CINGOLANI, Monica CLAPP, Symmetric semiclassical states to a magnetic nonlinear Schrödinger equation via equivariant Morse theory, *Communications on Pure and Applied Analysis*, vol. 9 (2010), no. 5, 1263–1281



40. Silvia CINGOLANI, Giuseppina VANNELLA, Daniela VISETTI, Morse index estimates for quasilinear equations on Riemannian manifolds, *Advances in Differential Equations*, vol. 16 (2011), no. 11-12, 1001-1020
41. Silvia CINGOLANI, Monica CLAPP, Simone SECCHI, Multiple solutions to a magnetic nonlinear Choquard equation, *Zeitschrift für Angewandte Mathematik und Physik (ZAMP)*, vol. 63 (2012), no. 2, 233-248
42. Silvia CINGOLANI, Monica CLAPP, Simone SECCHI, Intertwining semiclassical solutions to a Schrödinger-Newton system, *Discrete and Continuous Dynamical Systems S*, vol. 6 (2013), no. 4, 891-908
43. Silvia CINGOLANI, Simone SECCHI, Multiple  $\mathbb{S}^1$ -orbits for the Schrödinger-Newton system, In: 7th European Conference on Elliptic and Parabolic Problems, *Differential and Integral Equations*, vol. 26 (2013), no. 9-10, 867-884
44. José CARMONA, Silvia CINGOLANI, Pedro-J. MARTÍNEZ-APARICIO, Giuseppina VANNELLA, Regularity and Morse index of the solutions to critical quasilinear elliptic systems, *Communications in Partial Differential Equations*, vol. 38 (2013), no. 10, 1675-1711
45. Silvia CINGOLANI, On local Morse theory for p-area functionals,  $p > 2$ , *Journal of Fixed Point Theory and Applications* (dedicated to Prof. Yvonne Choquet-Bruhat), vol. 14 (2013), no. 2, 355-373
46. Silvia CINGOLANI, Giuseppina VANNELLA, Daniela VISETTI, Multiplicity and nondegeneracy of positive solutions to quasilinear equations on compact Riemannian manifolds, *Communications in Contemporary Mathematics* vol. 17 (2015), no. 2, 1450029, 41 pp.
47. Silvia CINGOLANI, Simone SECCHI, Ground states for the pseudo-relativistic Hartree equation with external potential, *Proceedings of the Royal Society of Edinburgh Section A*, vol.145 (2015), no. 1, 73-90
48. Silvia CINGOLANI, Marco DEGIOVANNI, Giuseppina VANNELLA, On the critical polynomial of functionals related to p-area ( $1 < p < \infty$ ) and p-Laplace ( $1 < p \leq 2$ ) type operators, *Atti della Accademia Nazionale dei Lincei, Rendiconti Lincei, Matematica e Applicazioni*, vol. 26 (2015), no. 1, 49-56
49. Silvia CINGOLANI, Louis JEANJEAN, Kazunaga TANAKA, Multiplicity of positive solutions of nonlinear Schrödinger equations concentrating at a potential well, *Calculus of Variations and Partial Differential Equations*, vol. 53 (2015), no. 1-2, 413-439
50. Silvia CINGOLANI, Simone SECCHI, Semiclassical analysis for pseudo-relativistic Hartree equations, *Journal of Differential Equations*, vol. 258 (2015), no. 12, 4156-4179
51. Silvia CINGOLANI, Marco DEGIOVANNI, Giuseppina VANNELLA, Critical group estimates for nonregular critical points of functionals associated with quasilinear elliptic equations, *Journal of Elliptic and Parabolic Equations*, vol.1 (2015), 75-87
52. Silvia CINGOLANI, Tobias WETH, On the planar Schrödinger-Poisson system, *Annales de l'Institut Henri Poincaré. Analyse Non Linéaire*, vol. 33 (2016), no. 1, 169-197
53. Denis BONHEURE, Silvia CINGOLANI, Manon NYS, Nonlinear Schrödinger equation: concentration on circles driven by an external magnetic field, *Calculus of Variations and Partial Differential Equations*, vol. 55 (2016), no. 4, Paper No. 82, 33 pp.
54. Silvia CINGOLANI, Louis JEANJEAN, Kazunaga TANAKA, Multiple complex-valued solutions for nonlinear magnetic Schrödinger equations, *Journal Fixed Point Theory and Applications*, vol. 19 (2017), 37-66 (dedicated to Prof. Paul Rabinowitz)
55. Denis BONHEURE, Silvia CINGOLANI, Jean VAN SCHAFTINGEN, The Logarithmic Choquard equation: sharp asymptotics and nondegeneracy of the groundstate, *Journal of Functional Analysis*, vol. 272 (2017), 5255-5281

56. Silvia CINGOLANI, Marco DEGIOVANNI, Giuseppina VANNELLA, Amann - Zehnder type results for p-Laplace problems, *Annali di Matematica Pura ed Applicata*, in press (DOI 10.1007/s10231-017-0694-8)
57. Silvia CINGOLANI, SIMONE SECCHI, Intertwining solutions for magnetic relativistic Hartree type equations, *Nonlinearity*, to appear.
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