

04/10/2019

Academic curriculum Vitae

Daniela Visetti

Laurea in Matematica (M.SC: in Mathematics)

Research graduation thesis “Lie groups and Lax equations”, supervisor Prof. S. Benenti, University of Turin, qualification “Laurea in Matematica” (vecchio ordinamento), Class of Honours 110/110 cum laude, 8/7/1996 University of Turin.

Ph.D. in Mathematics

Ph.D. thesis “An eigenvalue problem for a quasilinear elliptic field equation”; supervisors Prof. V. Benci and Prof. A.M. Micheletti, University of Pisa; doctorate awarded on 15/6/2001, University of Pisa.

Present position

Assistant professor (RTD A), Free University of Bolzano-Bozen, since 01/03/2017, ssd SECS-S/06.

Previous academic positions

- October 2001-September 2003 Post-Doc Research Fellow (Assegno di ricerca), Department of Applied Mathematics, Faculty of Engineering, University of Pisa, Italy.
- October 2004-September 2005 Lecturer, University College Cork (Ireland).
- 2007-2011 Post-Doc Research Fellow, Department of Mathematics, Faculty of Sciences, University of Trento, Italy.

Scholarships before the Ph.D.

- August 1995 summer course of Differential Geometry and Differential Equations of Mathematical Physics, University of Perugia, INdAM.
- July-October 1996 C.N.R. scholarship.

Publications

1. V. Benci, A.M. Micheletti and D. Visetti, *An eigenvalue problem for a quasilinear elliptic field equation*, Journal of Differential Equations v. 184 (2) (2002), 299-320.
2. V. Benci, A.M. Micheletti and D. Visetti, *An eigenvalue problem for a quasilinear elliptic field equation on R^n* , Topological Methods in Nonlinear Analysis v. 17 (2001), 191-211.
3. D. Visetti, *An eigenvalue problem for a quasilinear elliptic field equation*, Proceedings of the Third World Congress of Nonlinear Analysis in: Nonlinear Analysis v. 47 n. 9 (2001), 5991-5997.
4. D. Visetti, *Multiplicity of symmetric solutions for a nonlinear eigenvalue problem in R^n* , Electronic Journal of Differential Equations v. 2005 n. 5 (2005), 1-20.
5. A.M. Micheletti and D. Visetti, *Solitary waves solutions of a nonlinear Schrödinger equation*, "Nonlinear equations: Methods, Models and Applications" in: Progress in Nonlinear Differential Equations and Their Applications, Eds.: D. Lupo, C.D. Pagani and B. Ruf, v. 54, Birkhauser Verlag (2003), 217-224.
6. A.M. Micheletti, A. Pistoia and D. Visetti, *On the number of blowing-up solutions to a nonlinear elliptic equation with critical growth*, Rocky Mountain Journal of Mathematics v. 37 n. 1 (2007), 291-325.
7. A. Pokrovskii, O. Rasskazov and D. Visetti, *Homoclinic trajectories and chaotic behaviour in a piecewise linear oscillator*, Discrete and Continuous Dynamical Systems, Series B, v. 8 (2007), 943-970.
8. D. Visetti, *Multiplicity of solutions of a zero mass nonlinear equation on a Riemannian manifold*, Journal of Differential Equations v. 245 n. 9 (2008), 2397-2439.
9. D. Breda, D. Visetti, *Existence, multiplicity and stability of endemic states for an age-structured S-I epidemic model*, Mathematical Biosciences v. 235 n. 1 (2012), 19-31.
10. S. Cingolani, G. Vannella and D. Visetti, *Morse index estimates for quasilinear equations on Riemannian manifolds*, Advances in Differential Equations v. 16 n. 11-12 (2011), 1001-1020.
11. S. Cingolani, G. Vannella and D. Visetti, *Multiplicity and nondegeneracy of positive solutions to quasilinear equations on compact Riemannian manifolds*, Communications in Contemporary Mathematics v. 17 n. 2 (2015).
12. A.H. Hamel and D. Visetti, *The Value Functions Approach and Hopf-Lax Formula for Multiobjective Costs via Set Optimization*, Preprints **2019**, 2019070032 (doi: 10.20944/preprints201907.0032.v1).

Organization of Schools and Workshops

- International School "Nonlinear Analysis and Applications to Physical Sciences", 2-7 May 2002, San Mommè (PT).
- Meeting of the National Group of Research "Metodi variazionali e topologici nello studio di fenomeni non lineari", 8-9 May 2002, San Mommè (PT) Italy.
- Organization of the "Summer School & Colloquium: Set Optimization for Applications", International Summer School & Colloquium at Free University of Bozen-Bolzano, Campus Bruneck, from 21/06/2017 to 01/07/2017.

Conferences and seminars

1. 29/6/2000, invited talk, University of Turin, Italy.
2. 19-26/7/2000, invited contribution, Third World Congress of Nonlinear Analysis, held in Catania, Italy.

3. 9-11/4/2001, invited contribution at the Workshop "Giornate di lavoro relative al programma di ricerca Metodi variazionali e topologici nello studio di fenomeni non lineari", held in San Mommè (PT), Italy.
4. 30/1/2003, invited talk, Colloquium series, at University College Cork, Ireland.
5. 28/3/2006, invited talk, University of Pisa, Italy, "Traiettorie omocline e comportamento caotico in un oscillatore lineare a tratti".
6. 29/5/2007, invited talk, University of Trento, Italy, "Solitary waves with topological charge for a nonlinear Schrödinger equation".
7. 31/8/2007, invited talk, University of Aalborg, Denmark, "Derrick's conjecture and topological solitary waves".
8. 26/6/2008, invited talk, University of Turin, Italy, "Un modello di epidemia S-I con struttura d'età: esistenza, unicità e molteplicità di equilibri endemici".
9. 29/6 - 4/7/2008, invited contribution "Existence, uniqueness and multiplicity of endemic states for an age-structured S-I epidemic model" at the European Conference on Mathematical and Theoretical Biology, Edinburgh, United Kingdom.
10. 16/10/2008, invited talk, University of Trento, Italy, "Modelli di epidemie con struttura di età e mortalità indotta dall'infezione".
11. 17/12/2008, invited contribution "An age-structured epidemic model with extra-mortality due to the disease" at the "Workshop on Analysis and Numerics of Population dynamics and Epidemics models", held at University of Udine, Italy, 15-17 december 2008.
12. 27/1/2009, invited talk, University of Bari, Italy, "Molteplicità di soluzioni per un'equazione non lineare a massa nulla su una varietà riemanniana".
13. 10/3/2009, invited talk, University of Trento, Italy, "Traiettorie omocline e comportamento caotico in un oscillatore lineare a tratti con possibili applicazioni a un modello epidemico".
14. 21/06 - 01/07/2017 "Summer School & Colloquium: Set Optimization for Applications", International Summer School & Colloquium at Free University of Bolzano, Campus Brunico.
15. 12-13/10/2017 "Workshop on Political Economy", Brunico.
16. 5/3/2018 workshop on "Set Optimization and Applications", Brunico.
17. 24/1/2019 invited talk, University of Pisa, Italy, "Generalized solutions of Hamilton-Jacobi equation for multiobjective cost via set optimization".
18. 11-15/2/2019 conference "Set Optimization for Applications", Jena, Germany, invited talk 12/2/2019 "Generalized solutions of Hamilton-Jacobi equation for multiobjective cost via set optimization".

Membership in academic boards

- Committee for graduation, Bachelor Program Tourism, Sport and Event Management: 6/10/2017 and 8/9/2017.
- From 21/4/2017 member of the permanent committee for the ranking of lecturing and teaching assistants, mathematics and statistics.
- From 16/3/2018 representative of rtd's at the Faculty Council.
- July 2018 member of the committee for admission of students 2018/19.
- May 2019 member of the committee for admission of students 2019/20.

Professional Scientific Editor

1. "Lezioni di Geometria": vol.1 "Algebra lineare" and vol.2 "Geometria analitica", written by Prof. S. Greco and Prof. P. Valabrega respectively, Libreria Editrice Universitaria Levrotto & Bella.
2. 1997-2001, "Rendiconti del Seminario Matematico di Torino", Libreria Editrice Universitaria Levrotto & Bella.
3. 1999-2000, "Corso di Matematica" (secondary school mathematics book), written by Prof. M. Ciolli and Prof. L. Michelassi, Casa Editrice Principato.
4. 2002, proceedings of the workshop "Determinism, Holism and Complexity", Arcidosso (GR), 3-8 Settembre 2001, Kluwer Academic Press.

Funded projects

1. Participation to PRIN year 2001 "Metodi variazionali e topologici nello studio di fenomeni non lineari", Coordinatore Scientifico: Vieri Benci, from 1/1/2001 to 31/12/2002.
2. Participation to PRIN year 2003 "Fenomeni di concentrazione e di dinamica caotica", Coordinatore Scientifico: Vieri Benci, from 1/1/2003 to 31/12/2004.
3. Participation to PRIN anno 2007 "Teoria Matematica delle Popolazioni: metodi, modelli, confronto con i dati", Coordinatore Scientifico Mimmo Iannelli, University of Trento, from 23/10/2007 to 22/10/2008.
4. Principal investigator of the project "Verification Techniques for Multicriteria Variational Problems", during 32 months, funded by the Free University of Bolzano, from 13/6/2017 to present.