15th February 2012

Curriculum Vitae
Visetti Daniela

Personal data:
• Born in Turin, Italy, 8/2/1972.
• Citizenship: Italian.
• E-mail: daniela.visetti@unibz.it
• Married on 31/8/2002.
• Mother of Matteo, born in Pisa 30/6/2003, and of Michele, born in Trento 24/5/2009.

Pre-University:
Liceo Classico (Classic Studies Secondary School), Maturitá classica (Leaving Certificate in Classic Studies), Class of Honours 60/60.

Laurea in Matematica (B.Sc. in Mathematics):
• Research graduation thesis "Lie groups and Lax equations".
• Supervisor Prof. S. Benenti, University of Turin.
• Qualification "Laurea in Matematica", class of honours 110/110 cum laude.

Ph.D. in Mathematics:
• PhD 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.

Previous academic positions:

- October 2001-September 2003 Post-Doc Research Fellow, Department of Applied Mathematics, Faculty of Engineering, University of Pisa, Italy.
- May 2007-May 2008 Post-Doc Research Fellow, Department of Mathematics, Faculty of Sciences, University of Trento, Italy.
- December 2008-June 2009 Post-Doc Research Fellow, Department of Mathematics, Faculty of Sciences, University of Trento, Italy.
- November 2009-September 2010 Post-Doc Research Fellow (Assegno di Ricerca), Department of Mathematics, Faculty of Sciences, University of Trento, Italy.

- November 2010-January 2011 Post-Doc Research Fellow, Department of Mathematics, Faculty of Sciences, University of Trento, Italy.

Publications:

1. V. Benci, A.M. Micheletti e D. Visetti, *An eigenvalue problem for a quasilinear elliptic field equation*, Journal of Differential Equations **184** (2) (2002), 299–320.

2. V. Benci, A.M. Micheletti e D. Visetti, *An eigenvalue problem for a quasilinear elliptic field equation on* $\mathbf{R}^n$, Topological Methods in Nonlinear Analysis **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 **47** n. 9 (2001), 5991–5997.

4. D. Visetti, *Multiplicity of symmetric solutions for a nonlinear eigenvalue problem in* $\mathbf{R}^n$, Electronic Journal of Differential Equations, **2005** n. 5 (2005), 1–20.

5. A.M. Micheletti e 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, **54**, Birkhauser Verlag (2003), 217–224.

6. A.M. Micheletti, A. Pistoia e D. Visetti, *On the number of blowing-up solutions to a nonlinear elliptic equation with critical growth*, Rocky Mountain Journal of Mathematics **37** n. 1 (2007), 291–325.

7. A. Pokrovskii, O. Rasskazov e D. Visetti, *Homoclinic trajectories and chaotic behaviour in a piecewise linear oscillator*, Discrete and Continuous Dynamical Systems, Series B, **8** (2007), 943–970.

8. D. Visetti, *Multiplicity of solutions of a zero mass nonlinear equation on a Riemannian manifold*, Journal of Differential Equations **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 **235** n. 1 (2012), 19–31.

10. S. Cingolani, G. Vannella e D. Visetti, *Morse index estimates for quasilinear equations on Riemannian manifolds*, Advances in Differential Equations **16** n. 11-12 (2011), 1001–1020.

Conferences and seminars:

- 29/6/2000, invited talk, University of Turin, Italy.
- 19–26/7/2000, invited contribution, Third World Congress of Nonlinear Analysis, held in Catania, Italy.
- 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.
- 30/1/2003, invited talk, Colloquium series, at University College Cork, Ireland.
- 28/3/2006, invited talk, University of Pisa, Italy, *"Traiettorie omocline e comportamento caotico in un oscillatore lineare a tratti"*.
- 29/5/2007, invited talk, University of Trento, Italy, "Solitary waves with topological charge for a nonlinear Schrödinger equation".
- 31/8/2007, invited talk, University of Aalborg, Denmark, "Derrick's conjecture and topological solitary waves".
- 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".
- 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.
- 16/10/2008, invited talk, University of Trento, Italy, "Modelli di epidemie con struttura di età e mortalità indotta dall'infezione".
- 17/12/2008, invited contribution *"An age-structured epidemic model wiyh 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.
- 27/1/2009, invited talk, University of Bari, Italy, "Molteplicità di soluzioni per un'equazione non lineare a massa nulla su una varietà riemanniana".
- 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".

Teaching experiences:

1. November 1996, University of Turin, Faculty of Mathematics, Assistant Lecturer in "Rational Mechanics" and "Mathematical Physics" to third year Mathematics undergraduate students (Prof. M. Ferraris).

2. Academic year 2000/2001, University of Pisa, Faculty of Engineering, Assistant lecturer in "Mathematical Methods" (40 hours, ca. 400 students, Prof. V.Benci) for first year Informatics Engineering undergraduate students.

3. Academic year 2000/2001, University of Pisa, Faculty of Engineering, Assistant lecturer in "Geometry" (40 hours, ca. 200 students, Dr. P. Conti) for first year Mechanical Engineering undergraduate students.

4. Academic year 2001/2002, University of Pisa, Faculty of Engineering, Assistant lecturer in "Calculus 1" and "Calculus 2" (40 hours, ca. 100 students, Prof. C.Saccon) for first/second year Aeronautical Engineering undergraduate students.

5. Academic year 2002/2003, University of Pisa, Faculty of Engineering, Assistant lecturer in "Calculus 2" (40 hours, ca. 80 students, Prof. A.M. Micheletti) for second year Aeronautical Engineering undergraduate students.

6. Academic year 2004/2005, University College Cork, School of Mathematics, Part-time lecturer in "Multivariable Calculus" (24 hours lectures + 10 hours tutorials, ca. 50 students) for third year Arts students.

7. Academic year 2008/2009, University of Trento, Faculty of Sciences, Assistant lecturer in "Complementi di analisi matematica" (Prof. M. Iannelli, corso di laurea specialistica in fisica e tecnologie biomediche e in matematica).

8. Academic year 2008/2009, University of Trento, Faculty of Sciences, Assistant lecturer in "Geometry I and II" (Prof. G. Vigna Suria, corso di laurea in matematica e fisica).

9. Academic year 2010/2011, University of Trento, Faculty of Engineering, Assistant lecturer in "Analisi I" (Prof. M. Sabatini).

10. Academic year 2011/2012, University of Trento, Faculty of Engineering, Assistant lecturer in "Analisi I" (Prof. R. Brunetti).

11. Academic year 2011/2012, University of Trento, Faculty of Engineering, Assistant lecturer in "Analisi II" (Prof. M. Sabatini).

12. Academic year 2011/2012, University of Trento, Faculty of Engineering, Lecturer in "Corso di recupero di Analisi" (12 hours).

13. Academic year 2011/2012, Free University of Bolzano, Faculty of Computer Science e Tecnologie Informatiche, teaching assistant in "Analysis" (Prof. Marques Pereira).

Organization of Schools and Workshops:
• School "Nonlinear Analysis and Applications to Physical Sciences", 2–7 May 2002, San Mommè (PT) Italy.
• 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.

Professional Scientific Editor:

1. In 1998 "Lezioni di Geometria": vol.1 "Algebra lineare" and vol.2 "Geometria analitica", written by Prof. S. Greco and Prof. P. Valabrega, Libreria Editrice Universitaria Levrotto & Bella.

2. 1997–2001, "Rendiconti del Seminario Matematico di Torino" (mathematical journal), Libreria Editrice Universitaria Levrotto & Bella.

3. 1999–2000, "Corso di Matematica" (Mathematics book for secondary school), written by Prof. M. Ciolli and Prof. L. Michelassi, Casa Editrice Principato.

4. In 2002, Proceedings of the Workshop "Determinism, Holism and Complexity", Arcidosso (GR) Italy, 3-8 September 2001, Kluwer.