

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.1 posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera b) della Legge 240/2010 per il settore concorsuale 13/D4 _____, settore scientifico-disciplinare SECS-S/06 _____, presso il Dipartimento di ECONOMIA, MANAGEMENT E METODI QUANTITATIVI _____, (avviso bando pubblicato sulla G.U. n. 53 _____ del 05/07/2019 _____) Codice concorso 4129

Daniela Visetti

CURRICULUM VITAE

INFORMAZIONI PERSONALI

COGNOME	VISETTI
NOME	DANIELA
DATA DI NASCITA	08/02/1972

Pre-university

Liceo Classico (Classic Studies Secondary School), Maturità classica (Leaving Certificate in Classic Studies), 1991 Turin, 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" (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. My position expires the 29/02/2020, but I have won another position as assistant professor (RTD A) at Free University of Bolzano-Bozen.

Languages

- Italian: native.
- English: excellent knowledge, studied in Italy, in London and in Cork (Ireland), *Cambridge Certificate in Advanced English* (C1) University College Cork.
- French: good knowledge (B2), studied in Italy, in France and in Switzerland.
- German: certificate A2.

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).
- 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.

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, D. Visetti, *The value functions approach and Hopf-Lax formula for multiobjective costs via set optimization*, Journal of Mathematical Analysis and Applications v. 483 n. 1 (2020).
13. F. Heyde, D. Visetti, *Euler-Lagrange equations for multiobjective Lagrangian functions via set optimization*, arXiv:1911.11754.

University teaching experiences

1. November 1996, University of Torino, Faculty of Sciences, teaching assistant, courses of Rational Mechanics and Principles of Mathematical Physics, B.Sc. in Mathematics (Prof. M. Ferraris).
2. Academic year 2000/2001, University of Pisa, Faculty of Engineering, teaching assistant, course of Mathematical Methods (Prof. V. Benci), B.Sc. in Information technology Engineering.
3. Academic year 2000/2001, University of Pisa, Faculty of Engineering, teaching assistant, course of Geometry (Dr. P. Conti), B.Sc. in Mechanical Engineering.
4. Academic year 2001/2002, University of Pisa, Faculty of Engineering, teaching assistant, courses of Analysis I and Analysis II (Prof. C. Saccon), B.Sc. in Aeronautical Engineering.
5. Academic year 2002/2003, University of Pisa, Faculty of Engineering, teaching assistant, course of Analysis II (Prof. A.M. Micheletti), B.Sc. in Aeronautical Engineering.
6. Academic year 2004/2005, University College Cork, Ireland, lecturer of Multivariable calculus.
7. Academic year 2008/2009, University of Trento, Faculty of Sciences, teaching assistant, course of Complements of mathematical analysis (Prof. M. Iannelli), B.Sc. (laurea specialistica) in Physics, Biomedical technologies and in Mathematics.
8. Academic year 2008/2009, University of Trento, Faculty of Sciences, teaching assistant, course of Geometry I and II (Prof. G. Vigna Suria), B.Sc. in Mathematics and Physics.
9. Academic year 2010/2011, University of Trento, Faculty of Engineering, teaching assistant, course of Analysis I (Prof. M. Sabatini).
10. Academic year 2011/2012, University of Trento, Faculty of Engineering, teaching assistant, course of Analysis I (Prof. R. Brunetti), course of Analysis II (Prof. M. Sabatini), tutorial course of Analysis I.
11. Academic year 2011/2012, Free University of Bolzano, Faculty of Computer Science, teaching assistant, course of Analysis, Italian language (Prof. R. Marques Pereira).
12. Academic years 2012/2013 2013/2014 2014/2015, Free University of Bolzano, Faculty of Computer Science, teaching assistant, course of Analysis, English language (Prof. F. Bagagiolo).
13. Academic year 2014/2015, University of Trento, Department of Engineering and Computer Science, didactic coordination between the courses "Applied Cryptography" and "Applications for Security and Privacy".
14. Academic years 2014/2015, 2015/2016 and 2016/2017, University of Trento, teaching assistant, course of Analysis 1 (for Mathematics e Physics) (prof. R. Serapioni).
15. Academic years 2015/2016 and 2016/2017, University of Trento, Faculty of Engineering, teaching assistant, course of Analysis I (prof. F. Bagagiolo).
16. Academic years from 2013/2014 up to now, Free University of Bolzano, Faculty of Economics, teaching assistant, course of Mathematics for economists, English language (Prof. A.H. Hamel).

School teaching experiences

From 3/11/2011 to 7/12/2011, Istituto Tambosi, Trento.

From 9/3/2012 to 14/6/2013 maternity substitution, Istituto Sacro Cuore, Trento.

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".
19. 21-22/11/2019 conference "Set Optimization and Statistics", Bruneck, invited talk 22/11/2019 "The Value Functions Approach and Hopf-Lax Formula for Multiobjective Costs via Set Optimization".
20. 21/1/2020 invited talk, University of Trento, "Set optimization approach for a multi-objective Lagrangian: value function, Hopf-Lax formula and Hamilton-Jacobi equation".

Visiting

- January 2009, University of Bari, Italy.
- November 2019, University of Freiberg, Germany.

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.

Data

24/02/2020

Luogo

Trento

Vieri Benci