

Filippo Dell'Oro

Curriculum Vitae

Personal Information

Born in Lecco (Italy) on June 16th, 1986

Citizenship Italian

Affiliation Institute of Mathematics of the Academy of Sciences of the Czech Republic

Department Evolution Differential Equations

Address Žitná 25, 115 67 Praha 1, Czech Republic

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Employment

Since Oct. 1, 2014 **Postdoctoral Fellow**, Institute of Mathematics of the Academy of Sciences of the Czech Republic, Prague, Czech Republic

Dec. 30, 2013 - Sep. 30, 2014 **Research Fellow**, Università degli Studi di Brescia, Brescia, Italy

Education

Feb. 20, 2014 **PhD in Mathematical Models and Methods in Engineering**, Politecnico di Milano, Milan, Italy
Final grade: cum laude
Advisor: Prof. Vittorino Pata

Sep. 16, 2010 **Master of Science in Mathematics**, Università degli Studi di Milano, Milan, Italy
Final grade: 110/110 cum laude

Dec. 18, 2008 **Bachelor of Science in Mathematics**, Università degli Studi di Milano, Milan, Italy
Final grade: 110/110

Research Interests

Well-posedness and asymptotic analysis of differential and integro-differential evolution equations: stability, existence and regularity of global and exponential attractors, singular perturbations

Publications

12. F. Dell'Oro and V. Pata, *Lack of exponential stability in Timoshenko systems with flat memory kernels*, Appl. Math. Optim. (in press)
11. F. Dell'Oro, C. Giorgi and V. Pata, *Asymptotic behavior of coupled linear systems modeling suspension bridges*, Z. Angew. Math. Phys. (in press)
10. F. Dell'Oro and J.E. Muñoz Rivera, *Stabilization of ternary mixtures with frictional dissipation*, Asymptot. Anal. **89** (2014), 235–262
9. F. Dell'Oro and V. Pata, *On the stability of Timoshenko systems with Gurtin-Pipkin thermal law*, J. Differential Equations **257** (2014), 523–548
8. M. Conti, F. Dell'Oro and V. Pata, *Timoshenko systems with fading memory*, Dyn. Partial Differ. Equ. **10** (2013), 367–377
7. F. Dell'Oro, J.E. Muñoz Rivera and V. Pata, *Stability properties of an abstract system with applications to linear thermoelastic plates*, J. Evol. Equ. **13** (2013), 777–794
6. M. Conti, F. Dell'Oro and A. Miranville, *Asymptotic behavior of a generalization of the Caginalp phase-field system*, Asymptot. Anal. **81** (2013), 297–314
5. M. Coti Zelati, F. Dell'Oro and V. Pata, *Energy decay of type III linear thermoelastic plates with memory*, J. Math. Anal. Appl. **401** (2013), 357–366
4. F. Dell'Oro, *Global attractors for strongly damped wave equations with subcritical-critical nonlinearities*, Commun. Pure Appl. Anal. **12** (2013), 1015–1027
3. F. Dell'Oro and V. Pata, *Memory relaxation of type III thermoelastic extensible beams and Berger plates*, Evol. Equ. Control Theory **1** (2012), 251–270
2. F. Dell'Oro and V. Pata, *Strongly damped wave equations with critical nonlinearities*, Nonlinear Anal. **75** (2012), 5723–5735
1. F. Dell'Oro and V. Pata, *Long-term analysis of strongly damped nonlinear wave equations*, Nonlinearity **24** (2011), 3413–3435

Preprints

4. F. Dell'Oro, Y. Mammeri and V. Pata, *The Benjamin-Bona-Mahony equation with dissipative memory* (submitted)
3. F. Dell'Oro and C. Giorgi, *Global attractors for the coupled suspension bridge system with temperature* (submitted)
2. F. Dell'Oro, *Asymptotic stability of thermoelastic systems of Bresse type* (submitted)
1. V. Danese, F. Dell'Oro and V. Pata, *Stability analysis of abstract systems of Timoshenko type* (submitted)

Research Projects

2012 - 2013 Member of the GNAMPA project "Analisi di modelli di tipo Navier-Stokes"

Awards and Grants

Jul. 2012 International mobility contribution, PhD school of Politecnico di Milano
2011 - 2013 PhD scholarship, Politecnico di Milano

Visiting Appointments

Nov. 22 - 29, 2013 **University of Surrey**, Guildford, United Kingdom
Dec. 1 - 8, 2012 **Laboratoire Amiénois de Mathématiques Fondamentales et Appliquées**, Amiens, France
Jun. 30 - Sep. 29, 2012 **Laboratório Nacional de Computação Científica**, Petrópolis, Rio de Janeiro, Brazil

Talks at Conferences

Jul. 10, 2014 *Asymptotic behavior of a generalization of the Caginalp phase-field system*, The 10th AIMS Conference, Madrid, Spain
Sep. 10, 2013 *Asymptotic behavior of coupled linear systems modeling suspension bridges*, XII Workshop on Partial Differential Equations, Petrópolis, Brazil
Aug. 28, 2012 *Global attractors for strongly damped nonlinear wave equations*, XI Workshop on Partial Differential Equations, Rio de Janeiro, Brazil
Jul. 1, 2012 *Long-term analysis of strongly damped nonlinear wave equations*, The 9th AIMS Conference, Orlando, Florida, USA
Apr. 17, 2012 *Type III thermoelastic beams and plates with memory*, Mathematical Models and Analytical Problems in Special Materials, Rome, Italy

Talks at Universities and Research Centers

Nov. 4, 2014 *Asymptotic analysis of thermoelastic systems with Gurtin-Pipkin thermal law*, Institute of Mathematics of the Academy of Sciences of the Czech Republic, Prague, Czech Republic
Nov. 29, 2013 *On the stability of Timoshenko systems with Gurtin-Pipkin thermal law*, University of Surrey, Guildford, United Kingdom
Dec. 6, 2012 *Asymptotic behavior of nonlinear wave equations with strong damping*, Laboratoire Amiénois de Mathématiques Fondamentales et Appliquées, Amiens, France

Teaching Experience

Spring 2014 **Rational Mechanics** (assistance), Università degli Studi di Brescia

- Fall 2013 **Mathematical Analysis 1 and Geometry** (recitation), Politecnico di Milano
- Fall 2012 **Real and Functional Analysis** (recitation), Politecnico di Milano
- Fall 2012 **Mathematical Analysis 1 and Geometry** (recitation), Politecnico di Milano
- Fall 2011 **Mathematical Analysis 1 and Geometry** (recitation), Politecnico di Milano

Conferences and Schools Attended

- Nov. 23 - 29, 2014 **Oberwolfach Seminar "Analysis of compressible Navier-Stokes equations and related topics"**, Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach-Walke, Germany
- Jun. 17 - 22, 2013 **International school "Recent advances in partial differential equations and applications"**, Università degli Studi di Milano, Milan, Italy
- May 23, 2013 *Nona giornata di studio Università di Pavia - Politecnico di Milano*, Università degli Studi di Pavia, Pavia, Italy
- Apr. 8 - 12, 2013 *The Navier-Stokes equations in Venice - A meeting on the mathematical analysis of the Navier-Stokes equations*, Venice, Italy
- Feb. 28 - Mar. 1, 2013 *Mathematics in a complex world - On the occasion of 150th Year of Politecnico di Milano*, Politecnico di Milano, Milan, Italy
- Mar. 1 - 3, 2012 *Trends in Mathematical Analysis*, Politecnico di Milano, Milan, Italy
- Sep. 22, 2011 *Aspects of nonlinear PDEs - On the occasion of the 70th birthday of Carlo Pagani*, Politecnico di Milano, Milan, Italy
- Jun. 20 - 23, 2011 *International conference "Interfaces and discontinuities in solids, liquids and crystals"*, Gargnano, Italy
- Dec. 15, 2010 *Ottava giornata di studio Università di Pavia - Politecnico di Milano*, Politecnico di Milano, Milan, Italy
- Jul. 27 - Aug. 29, 2009 **Summer school of Mathematics SMI**, Perugia, Italy

Professional Service

- Referee for *Abstract and Applied Analysis, Asymptotic Analysis, Communications on Pure and Applied Analysis, Discrete and Continuous Dynamical Systems Series A, Electronic Journal of Differential Equations, Journal of Inequalities and Applications, Mathematical Problems in Engineering, Proceedings of the Royal Society of Edinburgh: Section A*
- Reviewer for *Mathematical Reviews*