

# ELENA BONETTI

**CURRICULUM VITAE, nata il 12-04-1974**

## 1. FORMAZIONE E RICONOSCIMENTI

- ¥ 01/2002: PhD in Matematica, Università degli Studi di Milano, relatore prof. Pierluigi Colli, titolo della tesi "Global solvability of a dissipative Frémond model for shape memory alloys"
- ¥ 2001: Diploma della Scuola Avanzata di Formazione Integrata, IUSS (Scuola Superiore di Pavia), come studente del Collegio Ghislieri di Pavia
- ¥ Miglior "curriculum studiorum" degli Studenti della Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università degli Studi di Pavia laureati nel 1997
- ¥ Premio "Berzolari" per la miglior tesi di laurea in Matematica dell'Università degli Studi di Pavia negli anni 1993 – 1997
- ¥ 07/1997: Laurea (cum laude) in Matematica (Università degli Studi di Pavia), relatore prof. Gianni Gilardi

## 2. PROFESSIONE

- ¥ 07/2018: Abilitazione a professore di Prima Fascia, settore concorsuale 01/A3-MAT05
- ¥ 03/2016 – ad oggi: Professore Associato presso il Dipartimento di Matematica dell'Università degli Studi di Milano, SSD MAT05 (dal 5 settembre 2019 in aspettativa senza assegni)
- ¥ 04/2011 – 02/2016: Professore Associato presso il Dipartimento di Matematica dell'Università degli Studi di Pavia, SSD MAT05
- ¥ 12/2013: Abilitazione a professore di Prima Fascia, settore concorsuale 01/A3-MAT05
- ¥ 01/2001 – 03/2011: Ricercatore Universitario presso il Dipartimento di Matematica dell'Università degli Studi di Pavia, SSD MAT05

## 3. ATTIVITÀ DIDATTICA

- ¥ 2015 - ad oggi: attività didattica svolta presso l'Università degli Studi di Milano, Facoltà di Scienze e Tecnologie
- ¥ 1998 – 2015: attività didattica svolta presso l'Università degli Studi di Pavia, Facoltà di Ingegneria
- ¥ Membro del collegio didattico della Scuola di Dottorato in Matematica dell'Università degli Studi di Milano (cicli XXXII-XXXIV, anni 2016 - ad oggi)
- ¥ Membro del collegio didattico della Scuola di Dottorato "Civil engineering and architectural" dell'Università degli Studi di Pavia, con particolare ruolo di supervisione rispetto alla moderazione analitica dei materiali (cicli XXX-XXXI, anni 2014-2018)
- ¥ Membro del collegio della Scuola di Dottorato "Computational Mechanics and Advanced Materials" dell'Università degli Studi di Pavia e dello IUSS, con particolare ruolo di supervisione rispetto alla moderazione analitica dei materiali (cicli XXVI-XXIX, anni 2010-2016)
- ¥ Membro della Commissione per l'ammissione al dottorato in Matematica dell'Università degli Studi di Milano per il XXXIV ciclo

## 4. ATTIVITÀ DI RICERCA

Progetti di ricerca sviluppati in collaborazione con studiosi nell'ambito dell'analisi matematica ma anche numerosi studiosi esperti in discipline differenti e afferenti, in particolare, alle seguenti università e istituti di ricerca, nazionali e internazionali: Laboratoire Central des Ponts et Chaussées e École Nationale Supérieure des Techniques Avancées (Paris); WIAS-Weierstrass Institute for Applied Analysis and Stochastics (Berlin); Laboratoire de Mécanique et d'Acoustique-CNRS (Marseille); Università degli Studi di Brescia; Università degli Studi di Pavia; Università degli Studi di Bologna; Università di Tor Vergata, Università degli Studi di Parma; École Nationale des Ponts et Chaussées (Paris); Laboratoire de Mécanique Civil (Montpellier); Laboratoire de Mécanique Appliquée (Besançon); Basic Chemicals and Plastic Research Center Versalis, ENI; IAC-CNR (Roma); Politecnico di Milano.

Partecipazione a numerosi progetti, seminari e convegni di carattere nazionale e internazionale.

## 5. PUBBLICAZIONI

- [1] Bonetti E., Some asymptotic analysis for hyperbolic relaxed Stefan problems with memory, *Asymptotic Anal.*, 20 (1999), 241-261
- [2] Bonetti E., Global solution to a Frémond model for shape memory alloys with thermal memory, *Nonlinear Anal.*, 46 (2001), 535-565
- [3] Bonetti E., Asymptotic analysis of a diffusive model for shape memory alloys with Cattaneo-Maxwell heat flux law, *Differential Integral Equations*, 15 (2002) 527-566
- [4] Bonetti E., Global solution to a nonlinear phase transition model with dissipation, *Adv. Math. Sci. Appl.*, 12 (2002) 355-376
- [5] Bonetti E., Some results on the well-posedness of an integro-differential Frémond model for shape memory alloys, *Rend. Sem. Mat. Univ. Pol. Torino*, 6 (2002) 115-128
- [6] Bonetti E., Colli P., Dreyer W., Gilardi G., Schimperna G., Sprekels J., On a model for phase separation in binary alloys driven by mechanical effects, *Physica D: Nonlinear Phenomena*, 165 (2002) 48-65
- [7] Bonetti E., Global solvability of a dissipative Frémond model for shape memory alloys. Part I: mathematical formulation and uniqueness, *Quart. Appl. Math.*, 61 (2003), 759-781
- [8] Bonetti E., Bonfanti G., Existence and uniqueness of the solution to a 3D thermoviscoelastic system, *Electron. J. Diff. Eqns.*, 50 (2003), 1-15.
- [9] Bonetti E., Colli P., Frémond M., A phase field model with thermal memory governed by the entropy balance, *M3AS Math. Models Methods Appl. Sci.*, 13 (2003), 1565-1588
- [10] Bonetti E., Dreyer W., Schimperna G., Global solution to a generalized Chan-Hilliard equation with viscosity, *Adv. Differential Equations*, 8 (2003) 231-256
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- [14] Bonetti E., Frémond M., Collisions and fracture: a 1D theory. How to tear off a chandelier from the ceiling, *J. Elasticity*, 74 (2004) 47-66
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## **6. LINGUE STRANIERE:** Inglese e Francese