

Personal data and contact information

Name: Debora AMADORI
Affiliation: University of L'Aquila, Italy
DISIM (Department of Information Engineering,
Computer Science and Mathematics)
e-mail: debora.amadori@univaq.it
web: <http://people.disim.univaq.it/~amadori/>

Education

- B.S. in Mathematics, University of Bologna (Italy), 02/1992
- Ph.D. in Mathematics, Functional Analysis and Applications, SISSA, Trieste, 11/1995

Academic appointments

- University of L'Aquila, 04/2019 – present: Full professor in Mathematical Analysis
- University of L'Aquila, 12/2014 – 03/2019: Associate professor
- University of L'Aquila (Italy), 10/2002 – 12/2014: Assistant professor
- University of Milan (Italy), 05/1996 – 09/2002: Assistant professor

Qualifications

- Qualification aux fonctions de Professeur, section 26 (Mathématiques appliquées et applications des mathématiques), France, 2014

Research Area

- Partial Differential Equations of Hyperbolic type; Hyperbolic Systems of Conservation Laws; Relaxation Limits and Asymptotic Behavior of Conservation Laws.

10 selected publications:

- D. Amadori, E. Dal Santo, F. Aqel. *Decay of approximate solutions for the damped semilinear wave equation on a bounded 1d domain*, J. Math. Pures Appl. (2019), in press
- D. Amadori, S.-Y. Ha, J. Park. *On the global well-posedness of BV weak solutions to the Kuramoto–Sakaguchi equation*, J. Differential Equations **262** (2017), 978–1022

Last updated: July 19, 2019

- D. Amadori, L. Gosse. *Stringent error estimates for one-dimensional, space-dependent 2×2 relaxation systems*, Ann. Inst. H. Poincaré Anal. Non Linéaire **33** (2016), 621–654
- (Monograph) D. Amadori, L. Gosse. Error Estimates for Well-Balanced Schemes on Simple Balance Laws. One-Dimensional Position-Dependent Models. *SpringerBriefs in Mathematics*, 2015
- D. Amadori, L. Gosse. *Transient L^1 error estimates for well-balanced schemes on non-resonant scalar balance laws*, J. Differential Equations **255** (2013), 469–502
- D. Amadori, W. Shen. *The Slow Erosion Limit in a Model of Granular Flow*, Arch. Ration. Mech. Anal. **199** (2011), 1–31
- D. Amadori, W. Shen. *Global Existence of Large BV Solutions in a Model of Granular Flow*, Comm. Partial Differential Equations **34** (2009), 1003–1040
- D. Amadori, A. Corli. *On a model of multiphase flow*, SIAM J. Math. Anal. **40** (2008), 134–166
- D. Amadori, L. Gosse, G. Guerra. *Global BV entropy solutions and uniqueness for hyperbolic systems of balance laws*, Archive for Rational Mechanics and Analysis **162** (2002), 327–366
- D. Amadori, G. Guerra. *Uniqueness and continuous dependence for systems of balance laws with dissipation*, Nonlinear Analysis TMA, Ser. A: Theory and Methods **49** (2002), 987–1014

Funded projects (as Coordinator)

- GNAMPA 2018 research project “*Equazioni iperboliche e applicazioni*”;
- GNAMPA 2015 research project “*Sistemi iperbolici dissipativi di leggi di bilancio*”;
- GNAMPA 2005 research project “*Analisi Asintotica Per Sistemi Iperbolici Nonlineari*”.

PhD supervision

- A. Correa (Nov. 2018–current), University of L’Aquila
- K.A. Gyamfi (Gen. 2018–current), University of L’Aquila
- F.A. Aqel (Nov. 2016–current), University of L’Aquila
- S. Ferrari, 2002, University of Milan (with Prof. F. Saleri)

Some recent invited talks at meetings

- Contemporary Aspects of Analysis II, Cyprus, May 6–10, 2019
- Interactive workshop on hyperbolic equations, Ferrara (Italy), 10–12/09/2018
- CMC conference: Nonlinear dynamics of many-body systems and related topics, Seoul (South Korea), 21–24/08/2017