

# CURRICULUM VITAE

## Antonio Segatti

### Contacts

Prof. Antonio Segatti,  
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### Research Interests

- Nonlinear Partial Differential Equations
- Geometric Analysis and Gradient flows in metric spaces
- Mathematical analysis of models of Liquid Crystals, Phase Transition and damage
- Infinite dimensional dynamical systems

### Employment

1/1/2023 - now : Full Professor of Mathematical Analysis, Department of Mathematics "F. Casorati", University of Pavia.

Research Associate of the Istituto di Matematica Applicata e Tecnologie Informatiche, E. Magenes, (IMATI-CNR)

1/08/2015 - 31/12/2022 : Associate Professor of Mathematical Analysis, Department of Mathematics "F. Casorati", University of Pavia

29/12/2008 - 31/07/2015 : Assistant Professor of Mathematical Analysis with Tenure, Department of Mathematics "F. Casorati", University of Pavia

20/7/2006 - 28/12/2008 : Researcher at the Weierstrass Institute for Applied Analysis and Stochastics, Berlin

## Awards

ISIMM Junior Prize 2016 of the International Society for Interactions between Mechanics and Mathematics.

Berzolari Prize (local) for the best thesis in Mathematics at the University of Pavia in the academic years 2001/2002 and 2002/2003.

## Visiting Positions (for more than 2 weeks)

2019 Visiting Professor, School of Mathematical Sciences, Fudan University, Shanghai

2016 Visiting Fellowship, Erwin Schrödinger Institute in Vienna

2015 Visiting Professor, Department of Mathematics, Universidad Autónoma, Madrid

2014 Visiting Fellowship, Isaac Newton Institute for Mathematical Sciences, Cambridge

2010 Visiting Fellowship, School of Mathematical Sciences, Fudan University, Shanghai

## Education & Qualifications

- Abilitazione Nazionale a Professore Ordinario in Analisi Matematica, Probabilità e Statistica (01/A3, 2017).
- Abilitazione Nazionale a Professore Associato in Analisi Matematica, Probabilità e Statistica (01/A3, 2013).
- PhD in Mathematics (with highest honors), 30-1-2007, Univ. Milano (advisor P. Colli).
- Diploma of the *Scuola Universitaria Superiore* (S.U.S) (now IUSS), Pavia, 2002.
- Laurea in Matematica (with highest honors), 19-09-2002, Univ. Pavia

## Recent Publications (last 5 years)

- **Papers in refereed journals**
  1. G. Akagi, G. Schimperna, A. Segatti, Convergence of solutions for the fractional Cahn-Hilliard system, *J. Funct. Anal.* **276**, 2663–2715, (2019).

2. G. Hrkac, C. M. Pfeiler, D. Praetorius, M. Ruggeri, *A. Segatti*, B. Stiftner, Convergent tangent plane integrators for the simulation of chiral magnetic skyrmion dynamic, *Adv. Comput. Math.*, **45**, 1329–1368, (2019).
3. R. Rossi, G. Savaré, *A. Segatti*, U. Stefanelli, Weighted energy-dissipation principle for gradient flows in metric spaces, *J. Math. Pures Appl (9)*, **127**, 1–66, (2019).
4. *A. Segatti*, J. L. Vazquez, On a fractional thin film equation, *Adv. Nonlinear Anal.* 9 (2020), no. 1, 1516–1558.
5. G. Canevari, *A. Segatti*, Motion of vortices for the extrinsic Ginzburg-Landau flow for vector fields on surfaces, *Discrete Contin. Dyn. Syst. Ser. S*, **8**, 2087–2116, (2022).
6. A. Hyder, *A. Segatti*, Y. Sire, C. Wang, Partial regularity of the heat flow of half-harmonic maps and applications to harmonic maps with free boundary, *Comm. Partial Differential Equations*, **47**, 1845–1882, (2022).
7. G. Canevari, *A. Segatti*, Dynamics of Ginzburg-Landau vortices for vector fields on surfaces, *J. Funct. Analysis*, **285**, no. 11, (2023).
8. G. Canevari, *A. Segatti*, Dimensional reduction and emergence of defects in the Oseen-Frank model for Nematic Liquid Crystals, *Discrete and Continuous Dynamical Systems-S*, **17**, 98–130, (2024).

*Pavia*, 15-5-2024,  
Antonio Segatti