Curriculum vitae et studiorum

of $Marco\ Morandotti$ (last update May 16, 2017)

Personal data

Work address:

Fakultät für Mathematik Technische Universität München Boltzmannstrasse, 3 85748 Garching, Germany Office 02.10.040

4 +49 (0)89 289 17989

@ marco.morandotti@ma.tum.de

marcomorandotti.weebly.com

Languages spoken: Italian (native language), English (fluent), Portuguese (fluent), French (fair knowledge).

Positions

- December 15, 2016 Present¹: Postdoc in Mathematics at Technische Universität München, Germany.
- September 1, 2014 December 14, 2016²: Postdoc in Applied Mathematics at SISSA International School for Advanced Studies, Trieste, Italy.
- October 3, 2011 August 31, 2014³: ICTI Postdoctoral Research Associate in Applied Mathematics
 - April 4, 2013 August 31, 2014: Departamento de Matemática, Instituto Superior Técnico, Lisbon, Portugal.
 - October 3, 2011 March 31, 2013: Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA, USA.

Career of studies

- October 27, 2011 Ph.D. in Applied Mathematics, SISSA International School for Advanced Studies, Trieste, Italy. Thesis title: Self-propulsion in viscous fluids through shape deformation; Advisors Prof. G. Dal Maso and Prof. A. DeSimone.
- September 22, 2011 MCA (Master in Complex Actions, SISSA) diploma.
- February 5, 2008 IUSS diploma. Thesis title: A variational problem in thin film theory; Advisor Prof. E. Vitali, co-advisor Prof. F. Brezzi.
- July 17, 2007 M.Sc. in Mathematics, University of Pavia, with mark 110/110 cum laude. Thesis title: Some results on the regularity of the infinity laplacian equation; Advisor Prof. U.P. Gianazza.
- July 15, 2005 B.Sc. in Mathematics, University of Pavia, with mark 110/110 cum laude. Thesis title: Introduzione alle tassellazioni auto-affini e ai legami con le basi di ondine (Introduction to self-affine tessellations and to their relations with wavelet bases); Advisor Prof. M.P. Bernardi.
- Alumnus of IUSS Institute for Advanced Study, Pavia, class B/1, 7th cycle.
- Alumnus of Collegio Ghislieri in Pavia from October 2002 to October 2007.
- July 2002, high school degree, Liceo Scientifico Statale "N. Copernico", Pavia; mark 100/100 cum laude.

¹Support for this position is fully provided by the ERC Starting Grant High-Dimensional Sparse Optimal Control.

²Support for this position is fully provided by the ERC Advanced Grant QuaDynEvoPro.

³Support for this position is fully provided by the Fundação para a Ciência e a Tecnologia (Portuguese Foundation for Science and Technology) through the Carnegie Mellon Portugal Program under Grant FCT-UTA/CMU/MAT/0005/2009 *Thin Structures, Homogenization, and Multiphase Problems*.

Visits to universities

- Carnegie Mellon University, Pittsburgh, PA, USA, May 20-June 8, 2013, January 13-31, July 11-26, 2014, July 25-August 11, 2015, May 1-4, 2017.
- Ohio University, Athens, OH, USA, March 27-April 10, 2015, April 21-27, 2017.
- University of Warwick, UK, February 20–24, 2017.
- Instituto Superior Técnico, Lisbon, Portugal, March 5–9, November 19–23, 2012, December 15–19, 2014, January 5–9, May 26–31, December 14–21, 2015, January 4–11, 2017.
- University of Kanazawa, Japan, October 24–28, 2016.
- ESI Vienna, Austria, May 30-June 5, June 13-19, July 11-17, 2016.
- University of Bristol, UK, March 14-17, 2016.
- Politecnico di Torino, Italy, March 7–9, 2016.
- University of Vienna, Austria, September 7–11, 2015, February 15–19, 2016.
- Universidade de Évora, Portugal, June 1–7, 2015.
- Eindhoven University of Technology, Eindhoven, The Netherlands, October 14–17, 2014.
- SISSA, Trieste, Italy, December 12–15, 2011, April 2–5, September, December 17–20, 2012.
- McGill University, Montréal, Canada, November 28-December 1, 2011.

Awards, grants, and prizes

- GNAMPA Project 2015 Critical Phenomena in the Mechanics of Materials: a Variational Approach, P.I.
- Winner of a study prize from Istituto Nazionale di Alta Matematica "F. Severi" (INdAM) in the year 2008.
- Winner of a PhD position (XXIII cycle) with scholarship at SISSA International School for Advanced Studies of Trieste, 2007-2011.
- Scholarship from Istituto Nazionale di Alta Matematica "F. Severi" (INdAM) for students of Laurea Specialistica degree course (M.Sc.) for the years 2005-2007.
- Scholarship from Collegio Ghislieri for a stay in July and August 2005 at St. John's College in Cambridge.
- Winner of the IUSS Institute for Advanced Study, Pavia study prize for the years 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007.
- Scholarship from Istituto Nazionale di Alta Matematica "F. Severi" (INdAM) for undergraduate students for the year 2002-2003, maintained by merit for the following two years.

Memberships

AIMETA; EMS; GNAMPA (INdAM); MRS; SIAM; SIAG/MS; SIMAI; UMI. OrcID: 0000-0003-3528-6152

Research interests

My research interests lie in the broad field of Applied Mathematics. In particular, I am interested in using calculus of variations and PDE methods to study problems arising from material science, continuum mechanics, engineering, mathematical biology, and industrial applications.

Current research topics include: Dynamics of dislocations in solids (in collaboration with T. Blass, G.A. Bonaschi, I. Fonseca, T. Hudson, G. Leoni, I. Lucardesi, P. v. Meurs, R. Scala, D. Zucco); Mechanics of fractures (with G. Dal Maso); Pattern formation in Langmuir-Blodgett transfer (with M. Bonacini and E. Davoli); Geometrically constrained walls in 3D (with G. Hayrapetyan); Structured deformations (with A.C. Barroso, J. Matias, D.R. Owen, E. Zappale); Lower semincontinuity, relaxation, and homogenisation of functionals with linear growth in the context of A-quasiconvexity (with A. Arroyo-Rabasa, E. Davoli, J. Matias, P.M. Santos).

Publications

- 18. T. Hudson and M. Morandotti: Properties of screw dislocation dynamics: time estimates on boundary and interior collisions. arXiv:1703.02474. Submitted.
- 17. I. Lucardesi, M. Morandotti, R. Scala, and D. Zucco: Confinement of dislocations inside a crystal with a prescribed external strain. Preprint SISSA 20/2016/MATE. arXiv:1610.06852. Submitted.
- 16. A. C. Barroso, J. Matias, M. Morandotti, and D. R. Owen: Second-order structured deformations: relaxation, integral representation and applications. Arch. Rational Mech. Anal., (2017).
- 15. M. Morandotti: Structured Deformations of Continua: Theory and Applications. arXiv:1702.02105. Proceedings of the conference CoMFoS16, to appear.
- 14. J. Matias, M. Morandotti, and E. Zappale: Optimal Design of Fractured Media with Prescribed Macroscopic Strain. Journal of Mathematical Analysis and Applications 449 (2017), pp. 1094-1132.
- 13. A. C. Barroso, J. Matias, M. Morandotti, and D. R. Owen: Explicit Formulas for Relaxed Disarrangement Densities Arising from Structured Deformations. Math. Mech. Complex Syst., 5(2) (2017), pp. 163-189.
- 12. G. A. Bonaschi, P. van Meurs, and M. Morandotti: *Dynamics of screw dislocations: a generalised minimising-movements scheme approach*. Eur. J. Appl. Math., to appear.
- 11. T. Blass and M. Morandotti: Renormalized Energy and Peach-Köhler Forces for Screw Dislocations with Antiplane Shear. J. Convex Anal. 24(2) (2017), pp. 547-570.
- 10. G. Dal Maso and M. Morandotti: A model for the quasistatic growth of cracks with fractional dimension. Nonlinear Analysis Series A: Theory, Methods & Applications 154 (2017), pp. 43-58.
- 9. J. Matias and M. Morandotti: *Homogenization problems in the calculus of variations: an overview*. São Paulo Journal of Mathematical Sciences **9**(2) (2015), pp. 162-180.
- 8. M. G. Persico, L. Lodola, F. E. Buroni, M. Morandotti, P. Pallavicini, C. Aprile: 99mTc Human Serum Albumin nanocolloids: particle sizing and radioactivity distribution. Journal of Labelled Compounds and Radiopharmaceuticals 58(9) (2015), pp. 376-382.
- 7. J. Matias, M. Morandotti, and P. M. Santos: *Homogenization of functionals with linear growth in the context of A-quasiconvexity*. Appl. Math. Optim. **72**(3) (2015), pp. 523-547.
- 6. T. Blass, I. Fonseca, G. Leoni, and M. Morandotti: *Dynamics for Systems of Screw Dislocations*. SIAM J. Appl. Math. **75** (2015), pp. 393-419.
- 5. G. Dal Maso, A. DeSimone, and M. Morandotti: One-dimensional swimmers in viscous fluids: dynamics, controllability, and existence of optimal control. ESAIM Control Optim. Calc. Var. 21 (2015), pp. 190-216.
- 4. R. Choksi, M. Morandotti, and M. Veneroni: *Global minimizers for axisymmetric multiphase membranes*. ESAIM Control Optim. Calc. Var. **19** (2013), pp. 1014-1029.
- 3. M. Morandotti: Self-propelled micro-swimmers in a Brinkman fluid. Journal of Biological Dynamics 6 Iss. sup1 (2012), pp. 88-103.
- 2. G. Bertolini, C. Rossi, D. Crespi, S. Finazzi, M. Morandotti, S. Rossi, M. Peta, M. Langer, and D. Poole: Is A(H1N1) influenza pneumonia more severe than other community-acquired pneumonias? The result of the GiViTI survey on 155 Italian ICUs. Intensive Care Medicine 37 (2011), pp. 1746-1755.
- 1. G. Dal Maso, A. DeSimone, and M. Morandotti: An existence and uniqueness result for the dynamics of micro-swimmers. SIAM J. Math. Anal. 43 (2011), pp. 1345-1368.

Invited seminars

- Topics in the Calculus of Variations: Recent Advances and New Trends, BIRS, Banff, Canada, May 20–25, 2018. (forthcoming)
- AIMETA 2017, Salerno, Italy, September 4–8, 2017. (forthcoming)
- Ohio University, Athens, OH, USA, April 25, 2017.
- University of Warwick, UK, February 22, 2017.
- Miniworkshop on dislocations, plasticity, and fracture, SISSA, Trieste, Italy, February 13–16, 2017.
- University of Kanazawa, Japan, October 28, 2016.
- International conference CoMFoS16: Mathematical Analysis of Continuum Mechanics and Industrial Applications II, Kyushu University, Fukuoka, Japan, October 22–24, 2016.
- Workshop Variational and hamiltonian structures: models and methods, ESI, Vienna, Austria, July 11–15, 2016.
- The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, FL, USA, July 2016.
- 9th European Conference on Elliptic and Parabolic Problems, Gaeta, Italy, May 23–27, 2016.
- University of Bristol, UK, March 17, 2016.
- Variational Perspectives, Politecnico di Torino, Italy, March 8, 2016.
- University of Vienna, Austria, September 10, 2015.
- AMS-EMS-SPM Joint International Meeting, Porto, Portugal, June 10–13, 2015.
- University of Évora, Portugal, June 3, 2015.
- Ohio University, Athens, OH, USA, March 2015.
- Workshop Analytic approaches to scaling limits for random system, HIM, Bonn, Germany, January 27, 2015.
- CAMGSD Seminar, Instituto Superior Técnico, Lisbon, Portugal, December 16, 2014.
- ICMS seminar on particle systems, Eindhoven University of Technology, Eindhoven, The Netherlands, October 17, 2014
- CASA colloquium, Eindhoven University of Technology, Eindhoven, The Netherlands, October 15, 2014.
- The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July, 2014.
- University of Sussex, Brighton, UK, May 19, 2014.
- CNA Seminar, Carnegie Mellon University, Pittsburgh, PA, USA, January 28, 2014.
- BMS Intensive Course on Evolution Equations and their Applications, TU Berlin, Germany, November 28, 2013.
- Universidade Nova de Lisboa, Lisbon, Portugal, May 15, 2013.
- The Eighth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, Athens, GA, USA, March 25–28, 2013.
- Instituto Superior Técnico, Lisbon, Portugal, November 21, 2012.
- MMC Seminar, Mechanical Engineering, Carnegie Mellon University, Pittsburgh, PA, USA, October 26, 2012.
- University of Modena and Reggio Emilia, Modena, Italy, September 27, 2012.
- University of Parma, Italy, September 25, 2012.
- The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, FL, USA, July 2, 2012.
- CNA Seminar, Carnegie Mellon University, Pittsburgh, PA, USA, April 17, 2012.
- Instituto Superior Técnico, Lisbon, Portugal, March 7, 2012.
- McGill University, Montréal, Canada, November 28, 2011.
- University of Padua, Italy, September 19, 2011.
- The 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Germany, May 2010.

Presentations

- Nonconvexity, Nonlocality and Incompatibility: From Materials to Biology, University of Pittsburgh, PA, USA, May 5-7, 2017.
- 2017 MRS Spring Meeting and Exhibit, Phoenix, AZ, USA, April 17–21, 2017.
- 16th GAMM-Seminar on Microstructures, TU Dortmund, Dortmung, January 20–21, 2017.
- 7th European Congress of Mathematics, TU Berlin, Germany, July 18–22, 2016.
- Convegno Scientifico GNAMPA 2016, Montecatini Terme, Italy, June 20–23, 2016.
- XXVI Convegno Nazionale di Calcolo delle Variazioni, Levico Terme (TN), Italy, January 19, 2016.
- International Workshop Calculus of Variations and its Applications, Universidade Nova de Lisboa, Portugal, December 17–19, 2015.
- AMS-EMS-SPM Joint International Meeting, Porto, Portugal, June 10–13, 2015.
- Spring School on Microscopic descriptions and mean-field equations in physics and social sciences (poster), University of Bath, May 12–16, 2014.
- Winter School on Calculus of Variations in Physics and Materials Science (poster), Würzburg, Germany, February 10–14, 2014.
- 2014 Joint Mathematics Meeting, Baltimore, MD, USA, January 2014.
- CMU CNA Working Group December 4, 2012.
- Evolution problems in damage, plasticity and fracture: mathematical models and numerical analysis, Udine, Italy, September 19–21, 2012.
- Heterostructured Nanocrystalline Materials (poster), ICERM, Brown University, Providence, RI, USA, May 30–June 1, 2012.
- Winter School on Calculus of Variations in Physics and Materials Science (poster), Würzburg, Germany, January 2012.
- Incompressible Fluids, Turbulence and Mixing. In honor of Peter Constantin's 60th birthday, CMU, Pittsburgh, October 2011.
- Individual and Collective Fluid Mechanics of Swimming Microorganisms, Glasgow, July 2010.
- International Conference on Elliptic and Parabolic Equations (poster), WIAS, Berlin, December 2009.
- Workshop Multiscale Analysis of Self-Organization in Biology (poster), BIRS, Banff, July 2009.

Teaching activity

At University of Trieste

- Istituzioni di Matematiche for the degree course in Architecture, 2016–2017.
- Istituzioni di Matematiche for the degree course in Architecture, 2015–2016.
- Recitations for the course Analytical Mechanics for the degree course in Mathematics, 2015–2016.
- Istituzioni di Matematiche for the degree course in Architecture, 2014–2015.
- Tutor for the course of Mathematics I for the degree course in Chemistry, 2009–2010.

At SISSA

 $\bullet\,$ Reading course on Measure and Integration, 2015–2016.

At Instituto Superior Técnico

• Recitations for the course Complex Analysis and Differential Equations, Spring semester, 2014.

At University of Pavia

- TA for the course of Istituzioni di Matematiche for the degree course in Biological Sciences, 2006–2007.
- Introductory course in Mathematics for the first-year students in Mathematics and Physics, 2006–2007.
- Tutor for the course of Mathematics with Elements of Statistics for the degree courses in Pharmacy, 2006–2007.
- Introductory course in Mathematics for the first-year students in Mathematics and Physics, 2005–2006.
- Tutor for the course of Istituzioni di Matematiche for the degree course in Biological Sciences, 2004–2005.
- Introductory course in Mathematics for the first-year students in Natural Sciences and Geology, 2004–2005.

Participation to conferences, congresses, and schools (selected)

- Topics in the Calculus of Variations: Recent Advances and New Trends, BIRS, Banff, Canada, May 20–25, 2018. (forthcoming)
- AIMETA 2017, Salerno, Italy, September 4–8, 2017. (forthcoming)
- BIRS/CMO workshop Analysis of Dislocation Models for Crystal Defects, Oaxaca, Mexico, June 25–30, 2017. (forthcoming)
- Ninth Summer School in Analysis and Applied Mathematics, Sapienza University of Rome, June 5–9, 2017. (forthcoming)
- Nonconvexity, Nonlocality and Incompatibility: From Materials to Biology, University of Pittsburgh, USA, May 5-7, 2017.
- Miniworkshop on dislocations, plasticity, and fracture, SISSA, Trieste, Italy, February 13–16, 2017.
- XXVII Convegno Nazionale di Calcolo delle Variazioni, Levico Terme, Italy, February 6-10, 2016.
- International conference CoMFoS16: Mathematical Analysis of Continuum Mechanics and Industrial Applications II, Kyushu University, Fukuoka, Japan, October 22–24, 2017.
- Lecce Conference in Calculus of Variations and Partial Differential Equations, Lecce, Italy, October 4–7, 2016.
- A Mathematical Tribute to Ennio De Giorgi, CRM, Pisa, Italy, September 19–23, 2016.
- Meeting on Applied Mathematics and Calculus of Variations, Sapienza University of Rome, Italy, September 13–16, 2016.
- 7th European Congress of Mathematics, TU Berlin, Germany, July 18–22, 2016.
- Variational and hamiltonian structures: models and methods, ESI Vienna, Austria, July 11–15, 2016.
- The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, FL, USA, July 1–5, 2016.
- Convegno Scientifico GNAMPA 2016, Montecatini Terme, Italy, June 20–23, 2016.
- Entropy methods, dissipative systems, and applications, ESI Vienna, Austria, June 13–17, 2016.
- Advances in the Mathematical Analysis of Material Defects in Elastic Solids, SISSA, Trieste, Italy, June 6-10, 2016.
- 9th European Conference on Elliptic and Parabolic Problems, Gaeta, Italy, May 23–27, 2016.
- XXVI Convegno Nazionale di Calcolo delle Variazioni, Levico Terme, Italy, January 18–22, 2016.
- Trends in Non-Linear Analysis 2015, SISSA, Trieste, Italy, July 1–3, 2015.
- $\bullet \ \ \textit{Eighth Summer School in Analysis and Applied Mathematics}, Sapienza\ University\ of\ Rome,\ Italy,\ June\ 15-19,\ 2015.$
- AMS-EMS-SPM Joint International Meeting, Porto, Portugal, June 10–13, 2015.
- Intensive Trimester Variational Models for Plasticity and Dislocations, SISSA, Trieste, Italy, February 23–May 15, 2015
- Gradient flows and entropy methods, HIM, Bonn, Germany, February 17–20, 2015.
- XXV Convegno Nazionale di Calcolo delle Variazioni, Levico Terme, Italy, February 2-6, 2015.
- Analytic approaches to scaling limits for random system, HIM, Bonn, Germany, January 260-30, 2015.
- Variational Modeling in Solid Mechanics, Udine, Italy, September 22–24, 2014.
- Atomistic and Multi-Scale Models of Materials, Warwick, UK, September 15–18, 2014.
- Trends in Non-Linear Analysis, Instituto Superior Técnico, Lisbon, Portugal, July 31 August 1, 2014.
- Research program at the 24th PCMI Summer Session: Mathematics and Materials, Park City, UT, USA, July 13–18, 2014.
- The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July 7–11, 2014.
- Spring School Microscopic descriptions and mean-field equations in physics and social sciences, Bath, UK, May 12–16, 2014.
- Winter School Calculus of Variations in Physics and Materials Science, Würzburg, Germany, February 10–14, 2014.
- BMS Intensive Course on Evolution Equations and their Applications, TU Berlin, Berlin, Germany, November 27–29, 2013.
- Evolution Problems for Material Defects: Dislocations, Plasticity, and Fracture, SISSA, Trieste, Italy, September 30–October 4, 2013.
- Variational Views in Mechanics and Materials, Pavia, Italy, June 24–26, 2013.
- SIAM conference on Mathematical Aspects of Material Science, Philadelphia, PA, USA, June 9-12, 2013.
- 2013 CNA Summer School Topics in Nonlinear PDEs and Calculus of Variations, and Applications in Materials Science, Carnegie Mellon University, Pittsburgh, PA, USA, May 30-June 7, 2013.

- Evolution problems in damage, plasticity and fracture: mathematical models and numerical analysis, Udine, Italy, September 19–21, 2012.
- The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, FL, USA, July 1–5, 2012.
- NSF PIRE Summer School New frontiers in multiscale analysis and computing for materials, IMA, Minneapolis, MN, USA, June 25–29, 2012.
- Heterostructured Nanocrystalline Materials, ICERM, Brown University, Providence, RI, USA, May 30-June 1, 2012.
- Winter School Calculus of Variations in Physics and Materials Science, Würzburg, Germany, January 8-13, 2012.
- SIAM Conference on Analysis of Partial Differential Equations, San Diego, CA, USA, November 14–17, 2011.
- Workshop Macroscopic Modeling of Materials with Fine Structure, Carnegie Mellon University, Pittsburgh, PA, USA, May 26–28, 2011.
- XXI Convegno Nazionale di Calcolo delle Variazioni, Levico Terme, Italy, February 6-11, 2011.
- Individual and Collective Fluid Mechanics of Swimming Microorganisms, Glasgow, Scotland, July 6–8, 2010.
- The 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Germany, May 25–28, 2010.
- XX Convegno Nazionale di Calcolo delle Variazioni, Levico Terme, Italy, February 21–26, 2010.
- Workshop Multiscale Analysis of Self-Organization in Biology, BIRS, Banff, AB, Canada, July 12–17, 2009.
- Fifth Summer School in Analysis and Applied Mathematics, Sapienza, University of Rome, June 1–5, 2009.
- XIX Convegno Nazionale di Calcolo delle Variazioni, Levico Terme, Italy, February 8-13, 2009.
- C.I.M.E. Summer School Nonlinear PDE's and Applications, Cetraro, June 22–28, 2008.
- Meeting on Applied Mathematics and Calculus of Variations, University of Rome "La Sapienza", June 8-11, 2008.
- CIM/UC Summer School Topics in nonlinear PDEs, Coimbra, July 22–27, 2007.

Organizing activity

- Co-organizer of the Special Session *Mathematics and materials: models and applications* at the 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Taipei, Taiwan, July 5–9, 2018. (forthcoming)
- Co-organizer of the Mini-Symposium *Dislocations: recent results and perspectives* at the 7th European Congress of Mathematics, TU Berlin, July 18–22, 2016.
- Co-organizer of the Special Session Advances in the mathematical modeling of failure phenomena and interfaces in materials at the 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, FL, USA, July 1–5, 2016.
- Co-organizer of the conference Advances in the Mathematical Analysis of Material Defects in Elastic Solids, SISSA, Trieste, Italy, June 6–10, 2016.
- Co-organizer of the CalcVar seminar cycle at SISSA, Trieste, Italy, Fall 2015–Spring 2016.
- Co-organizer of the workshop Trends in Non-Linear Analysis 2015, SISSA, Trieste, Italy, July 1–3, 2015.
- Co-organizer of the Special Session *Mathematical models for materials* at the AMS-EMS-SPM Joint International Meeting, Porto, Portugal, June 10–13, 2015.
- Co-organizer of the Intensive Trimester Variational Models for Plasticity and Dislocations, SISSA, Trieste, Italy, February 23-May 15, 2015.
- Co-organizer of the workshop Trends in Non-Linear Analysis, Instituto Superior Técnico, Lisbon, Portugal, July 31-August 1, 2014.
- Co-organizer of the CNA-PIRE Working Group: Spring 2012 Variational methods for phase transitions and copolymers at Carnegie Mellon University.
- Organizer of the conference La matematica fra i modelli e la realtà at Collegio Ghislieri, Pavia, May 14, 2007. Speaker: Alfio Quarteroni, Politecnico of Milan and Ecole Polytechnique Fédérale of Lausanne.
- Organizer of the conference Matematica e Scienze sociali at Collegio Ghislieri, Pavia, May 9, 2007. Speaker: Stefano Demichelis, University of Pavia.

Last update: München, May 16, 2017 7/7