

Curriculum Vitae of Giuseppe Zurlo

Languages: **Italian**, mother-tongue. **English**, fluent. **French**, basic.

Current Employment

- Jan 2014 - date: **Lecturer of Applied Mathematics** (permanent position, “Above the Bar” since 20/01/2017), School of Mathematical and Statistical Sciences, National University of Ireland - Galway.

Studies and Qualifications

- 01/10/18 Italian Qualification of *Full Professor, Solid Mechanics*.
- 28/3/17 Italian Qualification of *Associate Professor, Solid Mechanics*.
- 19/12/15 Italian Qualification of *Associate Professor, Mathematical Physics*.
- 25/11/15 Post Graduate Certificate, Teaching and Learning in Higher Education, NUIG.
- 01/2/14 French Qualification as *Maitre de Conférences in Mécanique*.
- 18/12/2006 PhD (Dottorato) in *Structural Engineering*, Università di Pisa.
- 19/07/2002 Laurea - MSc (V.O.) in *Mechanical Engineering, 110/110*, Politecnico di Bari.

Teaching Awards and Acknowledgments of Teaching

- 2021: *President and College Award for Excellence in Teaching* (3 prizes/year out of 2078 academic staff; prize awarded through student surveys and with the recommendation of the CELT - Centre for Excellence in Learning and Teaching NUI Galway).
- 2021: *Teaching Hero Award* (Student-led award organised by the National Forum in collaboration with the Union of Students in Ireland to celebrate outstanding teachers).
- 2021: Invited contributions for UK’s Learning and Teaching Excellence Centres (Prof.R.Kerton, University of South Wales and Prof.S.Brown, Emerita Professor at Leeds Beckett University).
- 2020: Nomination to *President and College Award for Excellence in Teaching*, NUI Galway.

Employment History (14 years after the award of PhD)

After the award of PhD in 2006, I was employed for **6 years** under non-permanent, full time positions with the Politecnico di Bari (Italy), and for **8 years** under a permanent, full time contract with the National University of Ireland, Galway (Ireland). Specifically:

- 01/2014 - date: (**8 years**) Lecturer of Applied Mathematics, NUI Galway.
- 11/2012 - 12/2013: (**14 months**) Marie Curie INdAM Fellow, Laboratoire de Mécanique des Solides - Ecole Polytechnique, Paris - with Lev Truskinovsky.

- 04/2010 - 03/2012: (**2 years**) Post-Doc Research Fellowship at DIMEG (Mechanical Engineering Department), Politecnico di Bari, funded by Regione Puglia through the Progetto 18 - EMILIA “Reti di Laboratori Pubblici di Ricerca” (Network of Public Research Laboratories).
- 10/2009 - 03/2010: (**6 months**) Post-Doc Research Fellowship at DICA (Civil Engineering Department), Politecnico di Bari, Progetto Strategico Regionale PS060 “S.I.S.M.A., Theoretical-Experimental models for innovative and traditional materials of civil engineering.
- 07/2007 - 06/2009: (**2 years**) Post-Doc Research Fellowship (Assegno di ricerca) at DICA (Civil Engineering Department), Politecnico di Bari.

Research Visits

- 2021 (1 month): Invited Visiting Professor, DISG - Università Sapienza, Roma.
- 2018 (6 months): Invited Visiting Professor, PMMH/ESPCI - ParisTech, Paris.
- 2018 (1week): Invited Visiting Professor, Institute of Mathematics, Hebrew University, Jerusalem.
- 2014 (2weeks): Erasmus Mobility Grant in Paris, Ecole Polytechnique.
- 2005 (6 months): Visiting PhD Student, Carnegie-Mellon Univ., Pittsburgh, USA.
- 2004 (3 months): Visiting PhD Student, TAM Cornell University, Ithaca, USA.

Projects, Grants

- 06/2020 - present: Participant to a NSF collaborative proposal, PI T. Healey, Cornell US.
- 09/2016 - Mentor of a 2-years Post-Doctoral IRC fellowship (96k Euro, successful, withdrawn).
- 11/2012 - 12/2013: Individual Marie Curie / INdAM Fellowship Grant (85kE).
- 08/2008 - 12/2009: Researcher/Investigator on the Research Project of National Interest (PRIN 2008-09): “Light structures in multiscale materials of Civil Engineering: stiffness and strength, assembly and industrial reproducibility”. PI: Prof. F. Maceri.
- 01/2005 - 12/2006: Researcher/Investigator, Research Project of National Interest (PRIN 2005-06): ”Structures constituted by materials with microstructures. A challenge of the modern Civil Engineering). PI: Prof. F. Maceri.

Teaching

PhD Courses given at **Università Sapienza** and **Università Roma tre**, Roma, Italy:

2021/22:

- *PhD Course of Nonlinear Elasticity*, 20 hours for the PhD School in Civil Engineering (Università Roma Tre - Roma) and for the PhD School in Theoretical and Applied Mechanics (Università Sapienza - Roma).

At NUI Galway (School of Mathematical and Statistical Sciences), sole lecturer:

2013/14: (enrolled in Sem2 of 2013/14)

- *MP191 - Mathematical Methods I* for Financial Mathematics, 5 ECTS, 24 hours.
- *MA2102 - Applied Mathematics* for Engineering (all curricula), 5 ECTS, 12 hours.

2014/15:

- *MP191 - Mathematical Methods I* for Financial Mathematics, 5 ECTS, 24 hours.
- *MP120 - Engineering Mechanics* for Engineering (all curricula), 5 ECTS, 36 hours.
- *MM140 - Mathematical Methods* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MA2102 - Applied Mathematics* for Engineering (all curricula), 5 ECTS, 18 hours.

2015/16:

- *MP191 - Mathematical Methods I* for Financial Mathematics, 5 ECTS, 24 hours.
- *MP120 - Engineering Mechanics* for Engineering (all curricula), 5 ECTS, 36 hours.
- *MM140 - Mathematical Methods* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MA2102 - Applied Mathematics* for Engineering (all curricula), 5 ECTS, 18 hours.

2016/17:

- *MP191 - Mathematical Methods I* for Financial Mathematics, 5 ECTS, 24 hours.
- *MP120 - Engineering Mechanics* for Engineering (all curricula), 5 ECTS, 36 hours.
- *MP410 - Nonlinear Elasticity* for Science and for PhD programmes, 5 ECTS, 24 hours.
- *MP236 - Mechanics I* for Science, 5 ECTS, 24 hours.

2017/18: (Reduction of teaching load / Sabbatical Leave in ESPCI ParisTech.)

- *MP120 - Engineering Mechanics* for Engineering (all curricula), 5 ECTS, 36 hours.
- *MP236 - Mechanics I* for Science, 5 ECTS, 24 hours.

2018/19:

- *MP191 - Mathematical Methods I* for Financial Mathematics, 5 ECTS, 24 hours.
- *MP120 - Engineering Mechanics* for Engineering (all curricula), 5 ECTS, 36 hours.
- *MM140 - Mathematical Methods* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MA2102 - Applied Mathematics* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MP236 - Mechanics I* for Science, 5 ECTS, 24 hours.

2019/20:

- *MP191 - Mathematical Methods I* for Financial Mathematics, 5 ECTS, 24 hours.
- *MP120 - Engineering Mechanics* for Engineering (all curricula), 5 ECTS, 36 hours.
- *MM140 - Mathematical Methods* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MA2102 - Applied Mathematics* for Engineering (all curricula), 5 ECTS, 18 hours.

2020/21:

- *MP120 - Engineering Mechanics* for Engineering (all curricula), 5 ECTS, 36 hours.
- *MM140 - Mathematical Methods* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MP410 - Nonlinear Elasticity* for Science and for PhD programmes, 5 ECTS, 24 hours.
- *MP236 - Mechanics I* for Science, 5 ECTS, 24 hours.

2021/22: (Reduction of teaching load / Sabbatical Leave in Roma-Sapienza)

- *MM140 - Mathematical Methods* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MA2102 - Applied Mathematics* for Engineering (all curricula), 5 ECTS, 18 hours.
- *MP236 - Mechanics I* for Science, 5 ECTS, 24 hours.

Short description of taught moduli:

- *Solid Mechanics (Scienza delle Costruzioni)*: linear elasticity theory, Saint-Venant rod theory, statics of truss-rod structures, plasticity theory, stability, resistance of solids.
- *Mechanics of thin structures (Meccanica delle Strutture)*: theory of plates and shells and theory of curved rods.
- *Mechanical behavior of materials (Comportamento Meccanico dei Materiali)*: tensor algebra, kinematics, balance equations, constitutive modelling.
- *MP410 Nonlinear Elasticity*: tensor algebra, deformation, stress, balance equations, constitutive modeling, variational methods, solutions to simple tension, shear, torsion, inflation, electroactive membranes.
- *MP191 Mathematical Methods*: finite difference equations of the 1st and 2nd order and ordinary differential equations of the 1st and 2nd order, with applications to economics.
- *MP120 Engineering Mechanics*: classical topics from 1st year mechanics (vectors, kinematics, Newton's laws, collisions, conservation of energy, rigid body motions).
- *MM140 Mathematical Methods for Engineers*: 1st and 2nd ordinary differential equations, with application to mechanical and electrical systems.
- *MP236 Mechanics 1*: dimensional analysis, calculus of variations, Lagrangian mechanics, rigid body motions.
- *MA2102 Mathematics and Applied Mathematics II*: dimensional analysis, 2nd PDEs, 1D wave equation, flexural waves in beams, heat equation, equilibrium of membranes.

While at the **Politecnico di Bari** (DICA - Dipartimento di Ingegneria Civile e Ambientale):

2006/07:

- shared lecturing of *Scienza delle Costruzioni* for the BSc in Civil and Environmental Engineering, 12 ECTS, 40 hours out of 120 hours of frontal lectures; provided 100 hours of student tutorials, marked scripts and joined oral examination committees.
- lecturer of the unit *Mechanical Behavior of Materials* (10 hours) for the Regional Master on Technological Innovation (M.I.P.E.) for graduates, funded by the Politecnico di Bari, EU, the Italian Ministry of Work, and the Regional Government of Puglia.

2007/08:

- shared lecturing of *Scienza delle Costruzioni* for the BSc in Civil and Environmental Engineering, 12 ECTS, 40 hours out of 120 hours of frontal lectures; provided 100 hours of student tutorials, marked scripts and joined oral examination committees.
- shared lecturing of *Mechanical Behavior of Materials* for the MSc in Mechanical Engineering, 6ECTS, 24 hours out of 60 hours of frontal lectures; provided tutorials, marked scripts and joined oral examination committees.

2008/09:

- shared lecturing of *Scienza delle Costruzioni* for the BSc in Civil and Environmental Engineering, 12 ECTS, 40 hours out of 120 hours of frontal lectures; provided 100 hours of student tutorials, marked scripts and joined oral examination committees.
- shared lecturing of *Rational Mechanics* for the MSc in Architecture and Building Engineering (Edile-Ambientale), 3 ECTS, 10 hours out of 30 hours of frontal lectures; provided tutorials, marked scripts and joined oral examination committees.
- shared lecturing of *Mechanics of Structures* for the MSc in Civil Engineering, 6 ECTS, 12 hours out of 60 hours of frontal lectures; provided tutorials, marked scripts and joined oral examination committees.

2009/10:

- shared lecturing of *Scienza delle Costruzioni* for the BSc in Civil and Environmental Engineering, 12 ECTS, 70 hours out of 120 hours of frontal lectures; provided 100 hours of student tutorials, marked scripts and joined oral examination committees.

2010/11:

- shared lecturing of *Scienza delle Costruzioni* for the BSc in Civil and Environmental Engineering, 12 ECTS, 60 hours out of 120 hours of frontal lectures; provided 100 hours of student tutorials, marked scripts and joined oral examination committees.

2011/12:

- shared lecturing of *Scienza delle Costruzioni* for the BSc in Civil and Environmental Engineering, 12 ECTS, 60 hours out of 120 hours of frontal lectures; provided 100 hours of student tutorials, marked scripts and joined oral examination committees.

Student Supervision

I have supervised, co-supervised, mentored BSc, MSc, PhD and Post-Docs, in Italy and Ireland, also through joint supervision between both nations. Specifically:

- 1 PhD Thesis, principal supervisor. Student: P.Greaney, NUI Galway (viva 2019).
- 4 MSc Theses, (L. Magistrale), co-supervisor. Students: D. Zaza, E.Caprio, Politecnico di Bari/NUI Galway; D.Nanni, Università di Bologna/NUI Galway; F.Fiore, Politecnico di Bari.
- 19 BSc Theses, (L. Triennale), co-supervisor. Students: C. King, H. Conroy-Broderick, J. Hampson, G.O Connor, L.McDermott, S.Keenan, S.Gillespie, E.Horgan, J.Houlian, J.Quirke, J.Kelly, C.Byrne, U.Parkinson, H.Conor, C.Crump, NUI Galway; F. Fiore, A. Beltempo, V. Modelli, L. Manzari, Politecnico di Bari.

- *3 Research Internships, mentor.* Students: H.Conroy-Broderick, B.Wheelan, S.Tobin, NUIG.
- Mentor for a successful application to a 2 years Post-Doctoral Fellowship funded by the IRC "Irish Research Council" (withdrawn by the student after award for personal reasons).

I was member of 10 PhD evaluation committees, specifically:

- *Feb 2021:* G.Bevilacqua, Politecnico di Milano, supervisor Prof. P.Ciarletta.
- *Aug 2020:* H. Conroy-Broderick, NUI Galway, supervisor Prof. M.Destrade.
- *Mar 2020:* A. A. K. Althobaiti, Keele University, supervisor Prof. Y.Fu.
- *Apr 2019:* V. Piccolo, Università di Trento, supervisor Prof. L. Deseri.
- *Apr 2019:* S.Palumbo, Università di Trento, supervisors Proff. L. Deseri/M. Fraldi.
- *Dec 2018:* H. Boys, Queen Mary University of London, supervisor Prof. S. Poslad.
- *Dec 2015:* P. Pollaci, Università di Trento, supervisor Prof. L. Deseri.
- *Dec 2015:* S. Rossi, Università di Trento, supervisor Proff. Piazza, Tomasi.
- *Dec 2015:* E. Bortot, Università di Trento, supervisor Prof. M. Gei.
- *Aug 2015:* A. L.Gower, NUI Galway, supervisor Prof. M. Destrade.

Boards, Committees

- *2020 - date:* Member of the Board of the PhD School in Civil Engineering, Università Roma Tre, Roma.
- *2018 - date:* Director of the School's "Stokes Cluster of Applied Mathematics", that fosters inter-disciplinary research on NUI Galway's campus and beyond, including outreach activities aimed at undergraduate students in Ireland and abroad.
- *2014 - date:* Member of the School's "Communication and Outreach Committee", where since 2017 I am the organizer of "TY Fridays" (Transition Year Fridays), an activity involving the visit of hundreds of high-school pupils each year and the interaction with all colleagues of my School; also within this Committee, I am actively involved in outreach at all levels, by regularly taking part to Open Days, by providing assistance for MathWeek, by giving lectures for the Physics Special Topics module (PH109), by giving talks for the NUIG Physics Society and Maths Society, and during external events like PubhD.
- *2014 - date:* Member of 8 GRC Committees at NUI Galway (Graduate Research Committees, providing support to PhD students during their programme).
- *2018:* Member of the evaluation committee for a position of "Researcher in Active Elastomer Matrices", Technical University of Denmark (DTU) - Danish Polymer Centre of the Department of Chemical and Biochemical Engineering.

Projects Evaluation

- *2021:* Foreign evaluator of Italian PRIN Projects in Applied Mathematics.

- 2021: Foreign evaluator of the Italian VQR (Quality of Research in Italian Universities).
- Mar 2015: Reviewer of an Individual Research Grant of ISF - *Israel Science Foundation*.

Publications on Peer-Reviewed Journals

- 29) Saccomandi G., Speranzini E., Zurlo G., Piezoelectric machines: achieving non-standard actuation and sensing properties in poled ceramics (in-press, **Q.J.Mech.Appl.Mat.**).
- 28) Dolega M., Zurlo G., Le Goff M., Greda M., Verdier C., Joanny J.-F., Cappello G., Recho P., *Mechanical behavior of multi-cellular spheroids under osmotic compression*, **J. Mech. Phys. Solids** (in press).
- 27) Zaza D., Ciavarella M., Zurlo G., *Strain incompatibility as a source of residual stress in welding and additive manufacturing*, **Europ. J. Mechanics A/Solids** 85, 104147 (2021).
- 26) Zurlo G., Blackwell J., Colgan N., Destrade M., *The Poynting effect*, **American J. Phys.** 88, 1036 (2020);
- 25) Zurlo G., *Stable wrinkling in voltage and charge controlled dielectric membranes*, submitted, arXiv:1908.06690v1 (2019)
- 24) Balbi V., Zurlo G., *Foreword to the special issue: Constitutive modelling in biomechanics*, **Int. J. Non-Linear Mech.** (2019) (doi:10.1016/j.ijnonlinmec.2019.03.012)
- 23) Truskinovsky L., Zurlo G., *Nonlinear elasticity of surface growth*, **Phys. Rev. E** 99, 053001 (2019).
- 22) Zurlo G., Destrade M., Lu T., *Fine tuning the electro-mechanical response of dielectric elastomers*, **Applied Physics Letters** 113, 162902 (2018).
- 21) Greaney P., Meere M., Zurlo G., *The out-of-plane behaviour of dielectric membranes: Description of wrinkling and pull-in instabilities*, **Journal of the Mechanics and Physics of Solids** 122, 84–87 (2018).
- 20) Zurlo G., Truskinovsky L., *Inelastic surface growth*, Special Issue in Honor of Gérard Maugin, **Mechanics Research Communications** 93, 174–179 (2018).
- 19) Zurlo G., Truskinovsky L., *Printing non-Euclidean solids*, **Physical Review Letters** 119, 048001 (2017)
- 18) Zurlo G., Destrade M., DeTommasi D., Puglisi G., *Catastrophic thinning of soft dielectrics*, **Physical Review Letters** 118, 078001 (2017)
- 17) Colonnelli S., Saccomandi G., Zurlo G., *The role of material behavior in the performances of electroactive polymer energy harvesters*, **Journal of Polymer Science B: Polymer Physics** 53, 1303–1314 (2015)
- 16) Colonnelli S., Saccomandi G., Zurlo G., *Damage induced dissipation in electroactive polymer harvesters*, **Applied Physics Letters** 105, 163904 (2014)
- 15) De Tommasi D., Puglisi G., Zurlo G., *Hysteresis in electroactive polymers*, **European Journal of Mechanics A/Solids** 48, 16–22 (2014)

- 14) De Tommasi D., Puglisi G., Zurlo G., *Failure modes in electroactive polymer thin films with elastic electrodes*, **Journal of Physics D: Applied Physics** 47, 065502 (2014)
- 13) De Tommasi D., Puglisi G., Zurlo G., *Inhomogeneous deformations and pull-in instability in electroactive polymeric films*, **International Journal of Non-Linear Mechanics** 57, 123–129 (2013)
- 12) Zurlo G., *Nonlocal elastic effects in electroactive polymers*, **International Journal of Non-Linear Mechanics** 56, 115–122 (2013)
- 11) Deseri L., Zurlo G., *The stretching elasticity of biomembranes determines their line tension and bending rigidity*, **Biomechanics and Modelling in Mechanobiology**, 12, 1233–1242 (2013)
- 10) De Tommasi D., Puglisi G., Zurlo G., *Electromechanical instability and oscillating deformations in electroactive polymer films*, **Applied Physics Letters** 102, 011903 (2013)
- 9) De Tommasi D., Puglisi G., Zurlo G., *Inhomogeneous spherical configurations of inflated membranes*, **Continuum Mechanics and Thermodynamics** 25, 197–206 (2013)
- 8) Puglisi G., Zurlo G., *Electric field localizations in thin dielectric films with thickness non-uniformities*, **Journal of Electrostatics** 70(3), 312–316 (2012)
- 7) De Tommasi D., Puglisi G., Zurlo G., *A note on strong ellipticity in two-dimensional isotropic elasticity* **Journal of Elasticity** 109, 67–74 (2012)
- 6) De Tommasi D., Puglisi G., Zurlo G., *Taut states of dielectric elastomer membranes*, **International Journal of Non-Linear Mechanics** 47(2), 355–361 (2012)
- 5) De Tommasi D., Puglisi G., Zurlo G., *Compression-induced failure of electroactive polymeric thin films*, **Applied Physics Letters** 98, 123507 (2011)
- 4) De Tommasi D., Puglisi G., Saccomandi G., Zurlo G., *Pull-in and wrinkling instabilities of electroactive dielectric actuators*, **J. Physics D: Applied Physics** 43, 325501 (2010)
- 3) De Tommasi D., Marzano S., Puglisi G., Zurlo G., *Damage and healing effects in rubber-like balloons*, **International Journal of Solids and Structures** 46, 3999-4005 (2009)
- 2) Deseri L., Marcarì G., Zurlo G., *Chapter 5 - Thermodynamics*, in: *Continuum Mechanics* edited by J.Merodio and G.Saccomandi, in Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford ,UK.
- 1) Deseri L, Piccioni M.D., Zurlo G., *Derivation of a new free energy for biological membranes*, **Continuum Mechanics and Thermodynamics** 20(5), 255-273 (2008).

Invited Talks (with local host)

- Webinar at LMS, Ecole Polytechnique (Paris), Nov 24, 2020 (by A.Costantinescu).
- Webinar “Meccanica e Dintorni”, Jul 7, 2020 (by P. Podio-Guidugli).
- Webinar “Meccanica e Dintorni”, Jun 30, 2020 (by P. Podio-Guidugli).
- The Hebrew University, Jerusalem, Jan 29, 2020 (by M.Moshe).
- MACSI - University of Limerick – Jan 2020 (by V.Balbi).

- Università Roma Tre – Nov 21, 2019 (by G.Tomassetti).
- Università degli Studi di Napoli, Federico II – Sep 21, 2018 (by M.Fraldi).
- LiPhy - Université Joseph Fourier – Grenoble, France, Jun 4, 2018 (by P.Recho).
- The Hebrew University, Jerusalem, Apr 30, 2018 (by R.Kupfermann).
- PMMH - ESPCI ParisTech, Apr 13, 2018 (by L.Truskinovksy).
- BAMC Colloquim, St Andrews UK, Mar 26, 2018 (by V.Balbi).
- Technical University of Denmark, Mar 6, 2018 (by A.Skov).
- Università Cattolica del Sacro Cuore, Brescia, 13 Feb 2018 (by A.Marzocchi).
- Politecnico di Milano, Feb 14, 2018 (by P.Ciarletta).
- Mathematical Institute, University of Oxford, Nov 30, 2017 (by A.Goriely).
- Università La Sapienza, Roma, Nov 22-24, 2017 (by A.Favata).
- Okinawa Institute of Science and Technology, Japan, Sept 18-24, 2017 (by E.Fried).
- Università di Firenze, Italia, Mar 16, 2017 (by F.Carpi).
- University of Manchester, UK, Feb 10, 2017 (by W. Parnell).
- Università di Trento, Italia, Nov 25, 2016 (by D.Bigoni).
- Brunel University, London UK, Oct 28, 2016 (by L.Deseri).
- MACSI - University of Limerick, Ireland, Feb 27, 2015 (by S.Mitchell).
- University of Glasgow, UK, Oct 16, 2014 (by R.Ogden).
- NUI Galway, Ireland, Mar 6, 2014 (by M.Destrade).
- LMS, Ecole Polytechnique Paris, Sep 26, 2013 (by L.Truskinovsky).
- Institut D’Alembert, UPMC, Paris, Jul 9, 2013 (by P.Ciarletta).

Talks in Workshops and Conferences

- Workshop “The mechanics biology of cell aggregates”, Polit. Torino, Sep. 3-6 2019.
- Workshop “Math from the Body”, Univ. Cattolica di Brescia, Venice, June 6-8, 2019.
- Workshop “Nonlinear Elasticity”, Castro-Urdiales, Spain, Jul 1-5, 2019.
- MFO (Mathematisches Forschungsinstitut Oberwolfach) Germany, Jul 16-21, 2017.
- Workshop “Nonlinear Elasticity”, Castro-Urdiales, Spain, Jun 26-30, 2017.
- Workshop “Math from the Body”, Università Cattolica di Brescia, May 28-31, 2017.
- EMI (Engineering Mechanics Institute) Univ. de la Lorraine, France, Oct 25, 2016.
- MFO (Mathematisches Forschungsinstitut Oberwolfach) Germany, Nov 2015.
- Jean Mandel Seminar, Ecole Polytechnique, France, Jun 12, 2014.

- Workshop Mechanics in Biology, Gran Sasso Science Institute, Italy, May 6-9, 2014.
- MFO (Mathematisches Forschungsinstitut Oberwolfach) Germany, Dec 2013.
- XXI AIMETA Congress, Turin, Sep 17-20, 2013.
- ESMC - European Solid Mechanics Conference, Graz (Austria) Jul 9-12, 2012.
- Meeting Gruppo Materiali AIMETA, Lucca (Italy), Apr 12-13, 2012.
- XIX AIMETA Congress, Ancona (Italy), Sep 2009.
- XVIII AIMETA Congress, Brescia (Italy) Jun 2008.
- Workshop Nano-Brixen, Bressanone (Italy), Dec 19-22, 2007.

Editorial Activity, Workshops Organisation

- *since 2021*: Member of the Reviewer Editorial Board of “Frontiers in Mechanical Engineering”, Solid and Structural Mechanics section.
- *2021*: organisation of the mini-symposium “Nonlinear Electro- and Magneto-Elasticity and its Applications”, for the European Solid Mechanics Conference (ESMC 2022, Galway).
- *2018*: co-Guest Editor of the Special Issue “Constitutive Modeling in Biomechanics” for the International Journal of Non-Linear Mechanics (Elsevier).
- *2018*: organisation of the mini-symposium “Constitutive Modelling in Biomechanics”, for the British Applied Mathematics Colloquium (BAMC), St Andrews UK.
- *since 2017*: I coordinate the organization of the “Stokes Modelling Workshop”, hosted by NUIG, aimed at undergraduate students from all over the world.
- *2016*: nominated Distinguished Referee for the European Physical Journal.

Article Reviews

I have reviewed more than **80 articles**, submitted to the following journals:

Acta Mechanica, AIMS Materials Science, Biomechanics and Modeling in Mechanobiology, Facta Universitaria, Frontiers in Physiology, International Journal of Non-Linear Mechanics, Inverse Problems, Journal of Elasticity, Journal of Engineering Mechanics, Journal of the Mechanics and Physics of Solids, Journal of Mechanics of Materials and Structures, Journal of Physics D: Applied Physics, Journal of Physics: Condensed Matter, Journal of Polymer Science, Part B: Polymer Physics, Journal of Theoretical Biology, Meccanica, Mechanics and Mathematics of Solids, Mechanics Research Communications, Nanomaterials, Physical Review E, Physical Review Letters, Proceedings of the Royal Society of London A, Quarterly Journal of Mechanics and Applied Mathematics, SIAM Journal of Applied Mathematics, Smart Materials and Structures, IMA Journal of Applied Mathematics, ZAMP (Zeitschrift für angewandte Mathematik und Physik).

Outreach

I highly value outreach activities, specifically:

- I organise the yearly “Stokes Modelling Workshop” for graduates and undergraduates, a one-week event for 50-60 students from Ireland and abroad, aimed at fostering interest in pursuing a career in Applied Mathematics.
- Since 2019, I coordinate the “TY Fridays” in our School, an activity involving the visit of hundreds of high-school pupils each year and the interaction with all colleagues of my School.
- I regularly take part to Open Days, I provide assistance to MathWeek, I give lectures for the Physics Special Topics module (PH109) of the School of Physics, I give talks for the students’ Physics Society and Maths Society, and in external events like PubhD.
- I am an active member of the School’s “Communication and Outreach Committee”, and I am the Direction of the “Stokes Cluster of Applied Mathematics” of my School.

Membership in Societies

- ISIMM (International Society for the Interaction of Mechanics and Mathematics)
- GNFM (Gruppo Nazionale di Fisica Matematica)
- Albo degli Ingegneri (Italian Body of Engineers)