CURRICULUM VITAE

Jacopo Maria De Ponti



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Profile

Associate Professor in Structural Mechanics with expertise in wave mechanics, metamaterials, and microsystems, spanning theoretical modelling, numerical methods, and experimental validation. I am author and co-author of 30 peer-reviewed publications, one monograph, one book chapter, and three patents. My research has been carried out within national and international research groups and institutions, including Politecnico di Milano, Imperial College London, ETH Zürich, and University of Exeter.

Employment

2026 – now Associate Professor - Tenure track researcher (Rtt), Department of Civil and Environmental Engineering, Politecnico di Milano, Italy.
2025 – 2026 Assistant Professor - Tenure track researcher (Rtt), Department of Civil and Environmental Engineering, Politecnico di Milano, Italy.
2022 – 2025 Assistant Professor (RtdA), Department of Civil and Environmental Engineering, Politecnico di Milano, Italy.
2021 – 2022 Post-Doctoral researcher, Department of Civil and Environmental Engineering, Politecnico di Milano, Italy.

Education

April 2021 PhD (cum laude) in Structural, Seismic and Geotechnical Engineering (2017-2021) at Politecnico di Milano (Italy). Thesis: *Graded elastic metamaterials for energy harvesting*.
October 2017 Master of Science (cum laude) in Civil Engineering (Structures) at Politecnico di Milano (Italy).
November 2015 Bachelor of Science in Civil Engineering (108/110) at Politecnico di Milano (Italy).
July 2012 Scientific high school diploma (liceo scientifico) with full marks (100/100) at “Iris Versari”, Cesano Maderno (Italy).

Working periods in foreign institutions

I have been invited visitor in different institutions for collaborative research activities involving theoretical, numerical and experimental research in wave mechanics.
January 2026: Visiting Researcher at CEA-Leti. I coordinated the consortium meeting for the submission of a EIC Pathfinder 2026 project proposal on topological MEMS devices, "IMPACT4MEMS: Innovative Microelectromechanical Piezo-Devices Advanced by Configurable Topology for Manipulating Elasticity at the Micro-Scale".
January 2025 Visiting Researcher at Imperial College London, Faculty of Natural Sciences.
November 2021 Visiting Researcher at the University of Exeter (UK), Department of Physics and Astronomy. I coordinated underwater experimental tests on wave mode conversion in elastic pipes, then published in *Commun. Phys., Vol. 5, n. 279 (2022).*
July 2021 Visiting researcher at ETH Zürich (Switzerland), Department of Civil, Environmental and Geomatic Engineering. I had a key role in the experimental tests on graded arrays of resonators for low-frequency Energy Harvesting (EH) in the framework of the H2020 FET-proactive project MetaVEH, then published in *Energy Convers. Manag. 269, 116056 (2022)*.
February 2020 Visiting PhD student at Imperial College London, Department of Mathematics. I had a key role in the research activity on wave control in graded resonator arrays (rainbow trapping and reflection), then published in *New J. Phys. 22 063024 (2020).*
January-June 2019 Invited visiting PhD student at Imperial College London, Department of Mathematics. I had a key role in the research activity on graded metasurfaces for energy harvesting, then published in *New J. Phys. 22 013013 (2020)*. This research activity was critical in creating the basis for the H2020 FET proactive project "Metamaterial Enabled Vibration Energy Harvesting (MetaVEH)". During this period, I had a key role in the creation of the international research group involved in the MetaVEH project, putting together researchers from Imperial College London, ETH Zurich and Politecnico di Milano. Moreover, I have also worked in the centre for Plasmonic and Metamaterials, i.e. a cross-faculty grouping at Imperial College London covering a broad range of research in plasmonics and metamaterials.
March 2019 Visiting PhD student at Grenoble-Alpes laboratories, Institut des Sciences de la Terre. I was funded by Imperial College London for the experimental research activity on plates with periodic arrays of resonators.

Selected Conferences

8-12 June 2026 Invited speaker at "CMDS15: Continuum Models and Discrete Systems symposia", Rome, Italy.
15-18 June 2025 Invited speaker at "COMPDYN 2025: 10th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering", Rhodes Island, Greece.
9-11 April 2025 Invited speaker at "UK Metamaterials Network (UKMMN) 2025 Conference on Acoustic Metamaterials", Exeter (UK).
25-28 March 2025 Invited speaker at EUROMECH Colloquium "Metamaterials in Fluid Flows, Aeroacoustics, and beyond", Groningen (Netherlands).
2-6 September 2024 Oral presentation at XXVI AIMETA Congress, Naples (Italy).
3-7 June 2024 Oral presentation at "European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS)", Lisbon (Portugal).
7–9 May 2024 Oral presentation at EUROMECH Colloquium "Metamaterials and architected materials for novel energy harvesting solutions", London (UK).
12-16 June 2023 Oral presentation at "Phononics 2023: 6th International Conference on Phononic Crystals/Metamaterials/Metasurfaces, Phonon Transport, Topological Phononics", Manchester (UK).
10-12 October 2022 Invited speaker at EUROMECH Colloquium "Unification of microsystems

and metamaterials for new generation engineering solutions", Milan (Italy).
12–17 September 2022 Oral presentation at "Metamaterials 2022", Siena (Italy). Chair of a conference session on Mechanical and elastic Metamaterials.
5-9 June 2022 Oral presentation at "European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS)", Oslo (Norway).
20-25 September 2021 Poster presentation at "Metamaterials 2021", New York (USA).
13-14 September 2021 Invited speaker at "Workshop on Acoustic & Mechanical Metamaterials", Imperial College London, London (UK).
22-27 August 2021 Oral presentation at "ICTAM 2020+1 virtual", Milan (Italy).
9-11 October 2019 Oral presentation at "Symposium on Acoustic Metamaterials 2019", Ischia (Italy). Chair of a conference session.
16-21 September 2019 Oral presentation at: "Metamaterials 2019", Rome (Italy).

Selected participations to workshops and extra-curricular courses

15-17 April 2019 Workshop on Metamaterials, from Optics to Geophysics, Marseille. Coordinators: Prof. Boris Gralak e Sebastien Guenneau, Institut Fresnel, Marseille (France).
28-29 June 2018 Doctoral school on "Tunable and Software-Driven Functional Metasurfaces". Coordinators: Prof. Sergei Tretyakov e Dr. Fu Liu, Aalto University (Finland).

Conference organizer

7-9 May 2024 Chairperson of the EUROMECH colloquium 649 - Metamaterials and Architected Materials for Novel Energy Harvesting Solutions, Imperial College London, London (UK) (https://649.euromech.org/).

Selected funded projects and awards

2024 Honorary and Visiting Researcher Association to Imperial College London. The association has been offered in recognition of the valuable contribution to the Faculty of Natural Sciences, Imperial College London.
2021 I had a key role in creating the scientific basis and the research team for the H2020 FET-proactive Metamaterial Enabled Vibration Energy Harvesting (MetaVEH) project. I participated, as a young researcher, to the proposal and it was approved under grant agreement ID:952039, receiving a funding of 4.018.875 €.
2022 My paper "Elastic Orbital Angular Momentum", Phys. Rev. Lett. 128, 064301 (2022), has been selected as featured article and Editor's suggestion.
2020 My paper "Experimental investigation of amplification, via a mechanical delay-line, in a rainbow-based metamaterial for energy harvesting", Appl. Phys. Lett. 117, 143902 (2020), has been selected has Featured Article.
2019 Awarded PhD grant for the "Symposium on Acoustic Metamaterials 2019", Ischia, Italy
2017 Winner of the interdisciplinary PhD scholarship in the school of Structural and Mechanical Engineering on "Smart materials and Metamaterials for Industry 4.0", Politecnico di Milano, Italy.

Certifications

December 2023 National Scientific Qualification (ASN) as Associate Professor for the disciplinary field of CEAR-06/A - SCIENZA DELLE COSTRUZIONI.
July 2018 License to practice as a Civil Engineer (Esame di Stato).

Seminars in foreign institutions

7 November 2021 Metamaterials Colloquium “Autonomous low-power wireless sensors via graded elastic metamaterials” at the University of Exeter (department of Physics and Astronomy) and UK Metamaterials Network.

Teaching activity

Teaching activity for master and bachelor courses at Engineering and Architecture at Politecnico di Milano (Italy). Scientific-disciplinary sector CEAR-06/A - SCIENZA DELLE COSTRUZIONI.

2025-2026 International PhD course on “Complex Wave Phenomena in Metamaterials and Topological Mechanics” for the PhD programme in Structural, Seismic and Geotechnical Engineering at Politecnico di Milano. The course has been done in collaboration with Dr. Gregory J. Chaplain, Centre for Metamaterial Research and Innovation, Department of Physics and Astronomy, University of Exeter (5 CFU).
2025-now Professor in Structural Mechanics (Scienza delle Costruzioni) (8 CFU) (bachelor in Architecture).
2024-now Professor in Architectural design studio for built environment preservation and transformation - Structural design and seismic vulnerability (4 CFU) (master in Architecture).
2022-now Professor in Architectural Design Studio 2 – Structural Mechanics (4 CFU) (bachelor in Architecture).
2024-2025 Professor in Architectural design studio for complex construction 1– Structural design (4 CFU) (master in Architecture).
2023-2024 Professor in Architectural design studio for complex construction 2 - Structural and Seismic design (8 CFU) (master in Architecture).
2018-2021 Teaching assistant in Solid Mechanics (bachelor in Energy Engineering).
2020-2021 Teaching assistant in Theory of Structures (master in Civil Engineering).

Additional Teaching activities

2026-now Tutor for the project “Shaping waves with metamaterials” at “Alta Scuola Politecnica (ASP)”, Politecnico di Milano and Politecnico di Torino.
2024-2025 Tutor for the project “Metamaterials for acoustic and aerodynamic noise and vibration control (METAVENT)” at “Alta Scuola Politecnica (ASP)”, Politecnico di Milano and Politecnico di Torino.
2024-2025 Dissemination activities (Third Mission) for high schools and general public on Micro-ElectroMechanical Systems (MEMS).

Supervisor of master thesis

2025 D. A. Pérez Orozco, Nonlinear Dynamics of Topological Localized States in MEMS Resonators”, Politecnico di Milano (Italy).
2022 T. Panigati, “Topological metamaterials for SAW Devices”, Politecnico di Milano (Italy).
2021 A. Comana, “Graded three dimensional meta-frames for elastic wave control”, Politecnico di Milano (Italy).

Co-supervisor of master thesis

2024 P. Ceccarelli, “Fluid-solid periodic structures for wave propagation control”, Politecnico di Milano (Italy). Supervisor: Prof Alberto Corigliano (2022).
2023 A. Palacios Sànchez, “Integration of Graded Metamaterials and Magnetic Plucking for Enhanced Energy Harvesting”, Politecnico di Milano (Italy). Supervisor: Prof Raffaele Ardito.
2022 P. Liu, “Dynamic analysis of graded metamaterials via adiabatic theorem”, Politecnico di Milano (Italy). Supervisor: Prof Raffaele Ardito.
2021 L. Iorio, “Rainbow trapping and reflection in elastic waveguides”, Politecnico di Milano (Italy). Supervisor: Prof. Alberto Corigliano.
2021 D. Spreafico, “Piezoelectric oscillators for vibration energy harvesting”, Politecnico di Milano (Italy) Supervisor: Prof. Alberto Corigliano.
2021 E. Sametti, “Modeling and optimization of a graded metasurface for energy harvesting applications”, Politecnico di Milano (Italy). Supervisor: Prof. Raffaele Ardito.
2018 S. Iannaccio, “Analyses and interpretative models for elastic metamaterials”, Politecnico di Milano (Italy). Supervisor: Prof. Raffaele Ardito.
2018 N. Paderno, “3D metastructures for the manipulation of mechanical waves and energy harvesting”, Politecnico di Milano (Italy). Supervisor: Prof. Alberto Corigliano.

PhD and Post-Doc supervision

2026 Supervision of the MSCA doctoral researcher Jiayu Wang during secondment at Politecnico di Milano, contributing to training and research activities on topological mechanics and dispersion engineering (planned visiting period: Months 9–12 of the MSCA project).
2025 Supervision, together with Prof. Raffaele Ardito, for the visiting period of the PhD student Haoran Lu (Zhejiang University) at Politecnico di Milano.

Reviewer for international journals

- Communications Materials (since 2026)
- Communications Physics (since 2026)
- Results in Physics (since 2026)
- Chaos, Solitons and Fractals (since 2026)
- Biomedical Microdevices (since 2026)
- Nonlinear Dynamics (since 2025)
- Journal of Applied Physics (since 2025)
- Thin Walled Structures (since 2025)
- Scientific Reports (since 2025)
- Journal of Optics (since 2024)
- New Journal of Physics (since 2024)
- Nature Communications (since 2024)
- Composite Structures (since 2024)
- Smart Materials and Structures (since 2024)
- Structural and Multidisciplinary Optimization (since 2024)
- Sensors and Actuators (since 2024)
- Physica Scripta (since 2024)
- Frontiers in Physics (since 2023)
- Proceedings of the Royal Society A (since 2023)
- Wave Motion (since 2023)
- Journal of Physics D: Applied Physics (since 2023)
- International Journal of Theoretical Physics (since 2023)
- Journal of Sound and Vibration (since 2023)
- Mechanical Systems and Signal Processing (since 2022)

• Engineering Structures (since 2022)
• European Journal of Mechanics / A Solids (since 2022)
• International Journal of Solids and Structures (since 2021)
• Physics Letters A (since 2021)
• Meccanica, Springer (since 2021)
• International Journal of Mechanical Sciences (since 2020)
• Mechanics Research Communications (since 2020)

Reviewer for scientific proposals

2024- now: Reviewer for the European Science Foundation (ESF).
2025-now: Reviewer for the French National Research Agency (ANR).

Review Editor for international journals

• Frontiers in Materials – Metamaterials (since 2023)
• Frontiers in Physics – Condensed Matter Physics, Physical Acoustics and Ultrasonics (since 2023)

Publications

Patents

P3 C. Cassella, X. Zhao, T. Maggioli, R. V. Craster, J. M. De Ponti, L. Iorio, MEMS device using topologically protected localized interface state, WO 2026/111781 A2
P2 R. Ardito, A. Corigliano, F. Braghin, J. M. De Ponti, R. V. Craster, A. Colombi, Piezoelectric multi-resonator device for energy harvesting or actuating, PCT/IB2022/060275.
P1 R. Ardito, A. Corigliano, F. Braghin, J. M. De Ponti, R. V. Craster, A. Colombi, Dispositivo multi-risonatore per uso in sistemi di raccolta energia o in un sistema di azionamento, n. 102021000027965 (2021).

Chapters in International books

C1 J.M. De Ponti, Autonomous Wireless Sensors via Graded Elastic Metamaterials, Civil and Environmental Engineering for the Sustainable Development Goals, pag. 55-66, **Springer Nature Switzerland**, ISBN: ISBN: 978-3-030-99592-8 (2022).

International books

B1 J. M. De Ponti, Graded Elastic Metamaterials for Energy Harvesting, **Springer Nature Switzerland**, ISBN: 978-3-030-69059-5 (2021).

Papers in international journals

P31 O. Kaya, N. Scalise Pantuso, M. Galli, J. M. De Ponti, T. Maggioli, D. Pavesi, S. Ghosh, A. Frangi, L. Colombo, B. Davaji, M. Rinaldi, D. Horsley, C. Cassella, Toward Enhanced Inertial Sensing via Dynamically Soft Topological States in Piezoelectric Microacoustic Metamaterials**, Adv. Funct. Mater. e76905 (2026).**
P30 F. Avallone, F. Bosia, Y. Chen, G. Colombo, R. Craster, J. M. De Ponti, N. Fabbiane, M. R. Haberman, M. I. Hussein, W. Hwang, U. Iemma, A. Juhl, M. Kadic, M. Kotsonis, V. Laude, O.

Marquet, F. Mery, T. Michelis, M. Nouh, D. Ragni, M. Touboul, M. Wegener, A. O Krushynska, Metamaterials and fluid flows, **Nat. Commun. (2026)**.

P29 H. Lu, L. Xiao, J. Shi, J. M. De Ponti, R. Ardito, Y. Xu, Z. Cao, Control of microvibration transmitting from ground to superstructures using a TMD-based pile-in-pile structure, **Eng. Struct. 353 122241 (2026)**.

P28 H. Lu, J. M De Ponti, R. Ardito, L. Xiao, Y. Cai, Z. Cao, Mitigation of vertical vibrations in coupled meta-rods through internal interactions and boundary constraint, **Eur. J. Mech. A/Solids 115, 105826 (2026)**.

P27 T. Maggioli, N. Scalise Pantuso, M. Galli, J. M De Ponti, O. Kaya, S. Ghosh, M. Colangelo, C. Cassella, Topologically enhanced guided acoustic wave sensors, **Phys. Rev. Applied 24, 054007 (2025).**

P26 J. M. De Ponti, X. Zhao, L. Iorio, T. Maggioli, M. Colangelo, B. Davaji, R. Ardito, R. V. Craster, C. Cassella, Localized topological states beyond Fano resonances via counter-propagating wave mode conversion in piezoelectric microelectromechanical devices, **Nat. Commun. 15, 9617 (2024).**

P25 F. Zeighami, S. Quqa, J.M. De Ponti, N. Ayyash, A. Marzani, A. Palermo, Elastic metasurfaces for Scholte-Stoneley wave control, **Philos. Trans. R. Soc. A 382 (2278), 20230365 (2024).**

P24 L. Iorio, J.M. De Ponti, F. Maspero, R. Ardito, Roton-like dispersion via polarisation change for elastic wave energy control in graded delay-lines, **J. Sound Vib. 572, 118167 (2024).**

P23 E. Riva, J.M. De Ponti, J. Marconi, F. Braghin, R. Ardito, A. Corigliano, Adiabatic limit for scattering-free waveguiding in space-graded arrays of micro-resonators, **Eur. J. Mech. A Solids 104, 105162 (2024).**

P22 L. Rosafalco, J. M. De Ponti, L. Iorio, R. V. Craster, R. Ardito, A. Corigliano, Reinforcement learning optimisation for graded metamaterial design using a physical-based constraint on the state representation and action space, **Sci. Rep. 13, 21836 (2023).**

P21 L. Iorio, J.M. De Ponti, A. Corigliano, R. Ardito, Bandgap widening and resonator mass reduction through wave locking, **Mech. Res. Comm. 134, 104200 (2023).**

P20 F. Maspero, J. M. De Ponti, L. Iorio, A. Esposito, R. Bertacco, A. di Matteo, A. Corigliano, R. Ardito, Phononic Graded Meta-MEMS for Elastic Wave Amplification and Filtering, **J. Microelectromech. Syst., 32, 6 (2023).**

P19 R. Wiltshaw, J. M. De Ponti and R.V. Craster, Analytical solutions for Bloch waves in resonant phononic crystals: deep-subwavelength energy splitting and mode steering between topologically protected interfacial and edge states, **Q. J. Mech. Appl. Math. (2023).**

P18 J. M. De Ponti, L. Iorio, G.J. Chaplain, A. Corigliano, R.V. Craster and R. Ardito, Tailored topological edge waves via chiral hierarchical metamaterials, **Phys. Rev. Appl. 19, 034079 (2023).**

P17 L. Rosafalco, J. M. De Ponti, L. Iorio, R. Ardito and A. Corigliano, Optimised graded metamaterials for mechanical energy confinement and amplification via reinforcement learning, **Eur. J. Mech. A Solids 99, 104947 (2023).**

P16 G. J. Chaplain, J. M. De Ponti, T. A. Starkey, Elastic orbital angular momentum transfer from an elastic pipe to a fluid, **Commun. Phys. 5, 279 (2022).**

P15 B. Zhao, H. R. Thomsen, J. M. De Ponti, E. Riva, B. Van Damme, A. Bergamini, E. Chatzi, A. Colombi, A graded metamaterial for broadband and high-capability piezoelectric energy harvesting, **Energy Conv. Manag. Vol. 269, 116056 (2022).**

P14 J.M. De Ponti, L. Iorio, R. Ardito, Graded elastic meta-waveguides for rainbow reflection, trapping and mode conversion, **EPJ Appl. Metamat. Vol. 9, n. 6 (2022).**

P13 G. J. Chaplain, J. M. De Ponti, R. V. Craster, Elastic Orbital Angular Momentum, **Phys. Rev. Lett. 128, 064301 (2022).**

P12 G. J. Chaplain, J. M. De Ponti, The elastic spiral phase pipe, **J. Sound Vib. 523, 116718 (2022).**

P11 J. M. De Ponti, E. Riva, F. Braghin, R. Ardito, Elastic three-dimensional metaframe for selective wave filtering and polarization control, **Appl. Phys. Lett. 119, 211903 (2021).**
P10 J.M. De Ponti, L. Iorio, E. Riva, F. Braghin, A. Corigliano, R. Ardito, Enhanced Energy Harvesting of Flexural Waves in Elastic Beams by Bending Mode of Graded Resonators, **Front. Mater. 8 (2021).**
P9 J. M. De Ponti, L. Iorio, E. Riva, R. Ardito, F. Braghin, A. Corigliano, Selective Mode Conversion and Rainbow Trapping via Graded Elastic Waveguides, **Phys. Rev. Appl. 16, 034028 (2021).**
P8 G. J. Chaplain, J. M. De Ponti, G. Aguzzi, A. Colombi, R. V. Craster, Topological Rainbow Trapping for Elastic Energy Harvesting in Graded Su-Schrieffer-Heeger Systems, **Phys. Rev. Appl. 14, 054035 (2020).**
P7 G. J. Chaplain, D. Pajer, J. M. De Ponti, R. V. Craster, Delineating rainbow reflection and trapping with applications for energy harvesting, **New J. Phys. 22 063024 (2020).**
P6 G. J. Chaplain, J. M. De Ponti, A. Colombi, R. Fuentes-Dominguez, P. Dryburg, D. Pieris, R. J. Smith, A. Clare, M. Clark, R.V. Craster, Tailored elastic surface to body wave Umklapp conversion, **Nat. Commun. 11 3267 (2020).**
P5 J.M. De Ponti, E. Riva, R. Ardito, F. Braghin, A. Corigliano, Wide low frequency bandgap in imperfect 3D modular structures based on modes separation, **Mech. Res. Commun. 105 103512 (2020).**
P4 J. M. De Ponti, A. Colombi, E. Riva, R. Ardito, F. Braghin, A. Corigliano, R. V. Craster, Experimental investigation of amplification, via a mechanical delay-line, in a rainbow-based metamaterial for energy harvesting, **Appl. Phys. Lett. 117, 143902 (2020).**
P3 J.M. De Ponti, A. Colombi, R. Ardito, F. Braghin, A. Corigliano, R.V. Craster, Graded elastic metasurface for enhanced energy harvesting, **New J. Phys. 22 013013 (2020).**
P2 J.M. De Ponti, N. Paderno, R. Ardito, F. Braghin, A. Corigliano, Experimental and numerical evidence of comparable levels of attenuation in periodic and a-periodic metastructures, **Appl. Phys. Lett. 115 031901 (2019).**
P1 M. Banfi, P. Aceti, C. Arena, G. Bianciardi, G. Bonaventura, M. Chiappini, G. Corfini, J.M. De Ponti, E. Lo Savio, F. Lucidi, A. Marchini, G. Marino, M. Martinengo, H. Nasimi, L. Pesenti, F. Prandoni, N. Ruocco, F. Salvaggio, M. Vincenzi, R. Zambelli, Minima of eclipsing binaries and new ephemerides for GSC 03881-00579 and EZ Lacertae, **Information Bulletin on Variable Stars, No. 6033 (2012).**

Conference proceedings

CP5 T. Maggioli, M. Galli, J. M. De Ponti, M. Colangelo, S. Ghosh, C. Cassella, Topologically Enhanced Infrared Sensing Through Aluminum Scandium Nitride Radiofrequency Piezoelectric Metamaterials, 2025 23rd International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers) , Orlando, FL, USA.
CP4 J. M. De Ponti, L. Iorio, M. Rosso, F. Maspero, A. Esposito, T. Afifi Afifi, M. Riani, G. Gattere, A. Di Matteo, A. Corigliano, R. Ardito, Graded Micro-Resonators For Enhanced Sensing and Energy Harvesting In MEMS With Lead-Free Piezoelectric Materials, 2024 IEEE 23rd International Conference on Micro and Miniature Power Systems, Self-Powered Sensors and Energy Autonomous Devices (PowerMEMS), Tønsberg, Norway.
CP3 X. Zhao, J. M. De Ponti, T. Maggioli, M. Colangelo, R. V. Craster, C. Cassella, Topologically protected fano resonance in a 80 MHz Sc-doped AlN thin film resonator with a quality factor larger than 10k, Hilton Head Workshop 2024: A Solid-State Sensors, Actuators and Microsystems Workshop, Sonesta Resort (USA).
CP2 L. Iorio, J. M. De Ponti, R. Ardito, A. Corigliano, Graded meta-waveguides for elastic energy splitting, AIMETA 2022, Palermo, Italy (2022).

CP1 L. Iorio, J. M. De Ponti, R. Ardito, A. Corigliano, Resonant meta-lattices for wave confinement and energy harvesting, MECSOL 2022 - 8th International Symposium on Solid Mechanics, Campinas, Brazil (2022).

Milan, 16/07/2026 Jacopo Maria De Ponti