# Davide Riccobelli

Born in Brescia (Italy) on 18th December 1991

## Positions

**Fixed Term Researcher (Ricercatore a Tempo Determinato – lett. A)**    Jan. 2021 – Present

*Politecnico di Milano – MOX, Dipartimento di Matematica*
- Position partially funded by NEWMED project (*Innovative methods and materials for precision and personalised medicine*) and PRIN 2022 (*Mathematical models for viscoelastic biological matter*).
- Member of the Programme Board of Civil Engineering.

**Post-doc (assegnista di ricerca)**    Nov. 2018 – Jan. 2021

*SISSA – Mathlab, Area di Matematica*
- Supervisor: A. De Simone
- Position funded by the ERC Advanced Grant project *Micromotility*.

## Visiting periods

**Delft University of Technology**    May 2024 – July 2024

*Department of Aerospace Engineering*
- Host: B. Giovanardi

**University of Trento**    Mar. 2024 (1 week)

*Department of Civil, Environmental, and Mechanical Engineering*
- Host: L. Deseri

**Sorbonne Universitè and ESPCI**    Feb. 2022 (1 week)

*Institut ∂'Alembert and Laboratoire de Physique et Mécanique des Milieux Hétérogènes*
- Hosts: C. Maurini, L. Truskinovsky

**University of Oxford**    July 2018 (3 weeks)

*Mathematical Institute*
- Host: D. Vella

**École Supérieure de Physique et de Chimie Industrielles (ESPCI)**    Apr. 2017 – Oct. 2017

*Laboratoire de Physique et Mécanique des Milieux Hétérogènes*
- Host: L. Truskinovsky

**Sorbonne Université**    Sep. 2017 – Oct. 2017

*Institut Jean Le Rond ∂'Alembert*
- Host: C. Maurini

## Education

**Ph.D. in Mathematical Models and Methods in Engineering**    Nov. 2015 – Oct. 2018

*Politecnico di Milano*
- Title of the thesis: *Mathematical modelling of soft and active matter*
- Date of the thesis defence: 8th Feb. 2019
- Advisor: P. Ciarletta

**Laurea Magistrale (M.Sc.) in Mathematics**    Sep. 2013 – July 2015
*Università Cattolica del Sacro Cuore*    *110/110 summa cum laude*
**Laurea (B.Sc.) in Mathematics**    Sep. 2011 – Sep. 2013
*Università Cattolica del Sacro Cuore*    *110/110 summa cum laude*

## Qualifications

- Italian national scientific qualification as associate professor (professore di seconda fascia) for the disciplinary fields

  - MAT/07 - Mathematical Physics (valid until 3/10/2033).
  - ICAR/08 - Structural Mechanics (valid until 27/09/2033).

- French qualification for the position of Maître de conférence

  - Section 26 - *Mathématiques appliqués et applications des mathématiques* (Applied mathematics).
  - Section 60 - *Mécanique, génie mécanique, génie civil* (Mechanics, mechanical engineering, civil engineering).

### Journal articles

1. D. Riccobelli, P. Ciarletta, G. Vitale, C. Maurini, and L. Truskinovsky. Elastic instability behind brittle fracture. *Physical Review Letters*, 132:248202, 2024

2. N. A. Barnafi, F. Regazzoni, and D. Riccobelli. Reconstructing relaxed configurations in elastic bodies: Mathematical formulation and numerical methods for cardiac modeling. *Computer Methods in Applied Mechanics and Engineering*, 423:116845, 2024

3. D. Riccobelli, H. H. Al-Terke, P. Laaksonen, P. Metrangolo, A. Paananen, R. H. A. Ras, P. Ciarletta, and D. Vella. Flattened and wrinkled encapsulated droplets: Shape-morphing induced by gravity and evaporation. *Physical Review Letters*, 130(21):218202, 2023

4. Y. Su, D. Riccobelli, Y. Chen, W. Chen, and P. Ciarletta. Tunable morphing of electroactive dielectric-elastomer balloons. *Proceedings of the Royal Society A*, 479(2276):20230358, 2023

5. P. Ciarletta, G. Pozzi, and D. Riccobelli. The Föppl–von Kármán equations of elastic plates with initial stress. *Royal Society Open Science*, 9(5):220421, 2022

6. D. Andrini, V. Balbi, G. Bevilacqua, G. Lucci, G. Pozzi, and D. Riccobelli. Mathematical modelling of axonal cortex contractility. *Brain Multiphysics*, 3:100060, 2022

7. D. Riccobelli. Active elasticity drives the formation of periodic beading in damaged axons. *Physical Review E*, 104(2):024417, 2021

8. D. Riccobelli, G. Noselli, and A. DeSimone. Rods coiling about a rigid constraint: Helices and perversions. *Proceedings of the Royal Society A*, 477(2246):20200817, 2021

9. D. Riccobelli and G. Bevilacqua. Surface tension controls the onset of gyrification in brain organoids. *Journal of the Mechanics Physics of Solids*, 134:103745, 2020

10. D. Riccobelli, G. Noselli, M. Arroyo, and A. DeSimone. Mechanics of axisymmetric sheets of interlocking and slidable rods. *Journal of the Mechanics Physics of Solids*, 141:103969, 2020

11. D. Riccobelli and D. Ambrosi. Activation of a muscle as a mapping of stress–strain curves. *Extreme Mechanics Letters*, 28:37–42, 2019

12. D. Riccobelli, A. Agosti, and P. Ciarletta. On the existence of elastic minimizers for initially stressed materials. *Philosophical Transactions of the Royal Society A*, 377(2144):20180074, 2019

13. G. Giantesio, A. Musesti, and D. Riccobelli. A comparison between active strain and active stress in transversely isotropic hyperelastic materials. *Journal of Elasticity*, 137(1):63–82, 2019

14. D. Riccobelli and P. Ciarletta. Shape transitions in a soft incompressible sphere with residual stresses. *Mathematics and Mechanics of Solids*, 23(12):1507–1524, 2018

15. D. Riccobelli and P. Ciarletta. Morpho-elastic model of the tortuous tumour vessels. *International Journal of Non-Linear Mechanics*, 107:1–9, 2018

16. D. Riccobelli and P. Ciarletta. Rayleigh–Taylor instability in soft elastic layers. *Philosophical Transactions of the Royal Society A*, 375(2093):20160421, 2017

17. D. Ambrosi, S. Pezzuto, D. Riccobelli, T. Stylianopoulos, and P. Ciarletta. Solid tumors are poroelastic solids with a chemo-mechanical feedback on growth. *Journal of Elasticity*, 129(1-2):107–124, 2017

### Conference proceedings

18. D. Riccobelli. Buckling behind brittle fracture in soft solids. In P. Diehl, R. Lipton, A. Pandolfi, and T. Wick, editors, *Fracture as an Emergent Phenomenon*, volume 2024, 1 of *Oberwolfach Workshop Report*, pages 22–23, Oberwolfach (GE), 2024. Mathematisches Forschungsinstitut Oberwolfach

### Ph.D. Thesis

19. D. Riccobelli. *Mathematical modelling of soft and active matter*. PhD thesis, Politecnico di Milano, 2019

### Preprints

20. M. Magri and D. Riccobelli. Modelling of initially stressed solids: structure of the energy density in the incompressible limit. *arXiv preprint arXiv:2403.08432*, 2024

## Research grants (PI or local coordinator)

### INdAM Starting Grant
- Title of the project: *MATH-FRAC: MATHematical modelling of FRACture in nonlinear elastic materials*.
- Role: PI
- Amount: 30 k€

### IDEA League Fellowship
- Title of the project: *Mathematical and computational modelling of fracture propagation in soft matter*.
- Role: PI

- Amount: 15 k€

## PRIN 2022

- Title of the project: *Mathematical models for viscoelastic biological matter*.
- Role: local coordinator
- PI: G. G. Giusteri
- Amount: 187 k€

## INdAM – GNFM project 2021

- Title of the project: *Transizioni di forma nella materia biologica e attiva* (Shape transitions in biological and active matter).
- Role: PI
- Amount: 4 k€

## PARTICIPATION TO RESEARCH PROJECTS

### INdAM – GNFM project 2023

- Title of the project: *Rimodellamento in materiali anisotropi e attivi* (Remodelling in anisotropic and active materials).
- Role: member
- PI: G. Lucci
- Amount: 2.5 k€

### CNRS project

- Title of the project: *Modelling cell and tissue biomechanics (MOCETIBI)*.
- Role: member
- PI: L. Almeida
- Amount: 40 k€

### PRIN 2020

- Title of the project: *Mathematics for Industry 4.0*.
- Role: member
- PI: P. Ciarletta
- Amount: 480 k€

### Regione Lombardia – Call Hub Ricerca e Innovazione

- Title of the project: *NEWMED project: Materials and methods for personalized and precision medicine*.
- Role: member
- PI: D. Polli
- Amount: 3.3 M€

### ERC Advanced Grant

- Title of the project: *MicroMotility – Multiscale modeling and simulation of biological and artificial locomotion at the micron scale*.
- Role: member
- PI: A. De Simone
- Amount: 1.3 M€

### PRIN 2017

- Title of the project: *Mathematics of active materials: from mechanobiology to smart device*.
- Role: member
- PI: L. Preziosi
- Amount: 420 k€

### INdAM – GNFM project 2017

- Title of the project: *Evoluzione e Controllo della Forma nei Materiali Attivi* (Shape control in active material).
- Role: member
- PI: A. Lucantonio
- Amount: 2.5 k€

### INdAM – GNFM project 2016

- Title of the project: *Fenomeni di frattura e instabilità nei Materiali Soffici Attivi* (Fracture and instability phenomena in soft active materials).
- Role: member
- PI: G. Noselli
- Amount: 5 k€

1. *Research Highlights* on the paper "D. Riccobelli, H. H. Al-Terke, P. Laaksonen, P. Metrangolo, A. Paananen, R. H. A. Ras, P. Ciarletta, and D. Vella. Flattened and wrinkled encapsulated droplets: Shape-morphing induced by gravity and evaporation. *Physical Review Letters*, 130(21):218202, 2023" have been published on *Nature Reviews Physics* and *Physics*:

   - Z. Budrikis. Crumpling and wrinkling droplets. *Nature Reviews Physics*, 5(7):374-374, 2023
   - R. Berkowitz. Gravity Alters the Shape of an Evaporating Droplet. *Physics*, 16:s69, 2023.

2. The paper "D. Riccobelli, H. H. Al-Terke, P. Laaksonen, P. Metrangolo, A. Paananen, R. H. A. Ras, P. Ciarletta, and D. Vella. Flattened and wrinkled encapsulated droplets: Shape-morphing induced by gravity and evaporation. *Physical Review Letters*, 130(21):218202, 2023" has been selected as *Editors' Suggestion* by the editorial board of *Physical Review Letters*.

3. The paper "D. Riccobelli. Active elasticity drives the formation of periodic beading in damaged axons. *Physical Review E*, 104(2):024417, 2021" has been selected as *Editors' Suggestion* by the editorial board of *Physical Review E*.

4. Winner of the *GADeS award 2023* for the best Ph.D. thesis in the fields of dynamics and stability defended the thesis in the period 2018-2023. The prize is awarded by the GADeS group of the Italian Association of Theoretical and Applied Mechanics (AIMETA).

5. Winner of a travel grant for a visiting period to the Universidad de Chile, Center of Mathematical Modeling (1 month, Feb. 2025) awarded by the National Institute of Higher Mathematics.

6. Travel grant to participate to the *IUTAM Symposium on Capillarity and Elastocapillarity in Biology* (2024).

7. *Young Scientist Support Grant*, to participate to the *International Congress on Theoretical and Applied Mechanics 2024* awarded by *ICTAM*.

8. *Oberwolfach Leibniz Graduate Students*, travel grant to participate to a workshop at the Mathematisches Forschungsinstitut Oberwolfach (2018).

9. Travel grants to participate to the INdAM Summer Schools on Mathematical Physics (2015, 2016, 2018, 2020).

PRESENTATIONS

**Invited presentations at international conferences and workshops**

1. 4 June 2024: *Mathematical modeling of axonal morphoelasticity: Cytoskeletal disruption and active elasticity in neurological disorders*, 9th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS), Lisbon.
2. 8 Jan. 2024: *Buckling behind brittle fracture in soft solids*, workshop "Fracture as an Emergent Phenomenon", Mathematisches Forschungsinstitut Oberwolfach.
3. 20 June 2023: *Mathematical and numerical modeling of axonal beading*, ECCOMAS Young Investigators Conference, University of Porto.
4. 4 Apr. 2023: *Mechanotransduction in axons: Remodelling of the actin cortex*, British Applied Mathematics Colloquium, Bristol.
5. 12 Oct. 2022: *Nucleation of cracks as an elastic instability*, workshop "Modelling Cell and Tissue Biomechanics", Laboratoire Jacques-Louis Lions, Sorbonne Université, Paris.
6. 4 July 2022: *From coronavirus infections to Alzheimer's disease: Buckling of damaged axons*, 11th European Solid Mechanics Conference, University of Galway.
7. 7 Apr. 2021: *Role of tissue surface tension in brain organoid morphogenesis*, British Applied Mathematics Colloquium, Glasgow.
8. 26 Feb. 2018: *On the modeling of muscle contraction*, workshop "The Mathematics of Mechanobiology and Cell Signaling", Mathematisches Forschungsinstitut Oberwolfach.

## Invited presentations at national conferences and workshops

1. 15 Mar. 2024: *The shape of the heart*, workshop "Heart beats in continuum mechanics", Politecnico di Torino.
2. 11 Sep. 2023: *Mathematical modelling of soft and active matter: GADeS award 2023*, GADeS – AIMETA Meeting, University of L'Aquila.
3. 11 May 2023: *Active elasticity in axons*, workshop "Applications of Linear and nonlinear Elasticity", Catholic University of Sacred Heart, Brescia.
4. 30 Sep. 2021: *Mathematical modeling of axonal beading: From coronavirus infections to Alzheimer's disease*, workshop "Recent Advances in Mechanics and Mathematics of Materials", Università la Sapienza, Rome.
5. 23 Sep. 2021: *Shape transitions in damaged axons*, INdAM Meeting: "Active Materials: from Mechanobiology to Smart Devices", Cortona.
6. 17 June 2020: *Mechanics of axisymmetric sheets of interlocking and slidable rods*, Giornate Signorini, Università degli Studi di Perugia.
7. 17 Sep. 2019: *Spatially constrained growth triggers tumour vessel tortuosity*, XXIV AIMETA Conference, Università la Sapienza, Rome.
8. 3 Sep. 2019: *Influence of mechanical stress on solid tumor growth*, workshop "The Mechanics of Cell Aggregates: Experiments and Models", Politecnico di Torino.
9. 7 June 2019: *Role of tissue surface tension in the morphogenesis of brain organoids*, workshop "Maths from the Body II", organized by the Catholic University of Sacred Heart, Venice.
10. 31 Aug. 2017: *Chemo–mechanical feedback in solid tumor growth*, INdAM Meeting: "Mathematical Physics of Living Systems", Cortona.

## Invited seminars

1. 19 Mar. 2024: *Fracture nucleation as an elastic instability in soft solids*, seminar at the Department of Civil, Environmental, and Mechanical Engineering of the University of Trento.
2. 24 Oct. 2023: *Neurological diseases and brain mechanics: A mathematical perspective*, seminar at International School for Advanced Studies (SISSA), Trieste.
3. 17 May 2023: *Mathematical modelling of axon mechanics*, seminar in Mathematical Physics, Università degli Studi di Padova.
4. 2 Dec. 2021: *Mechanical instabilities in slender structures*, Industrial and Applied Mathematics Seminar, University of Oxford.
5. 14 May 2020: *Morphoelasticity of solid tumours*, webinar organized by the Univeristy of Glasgow.
6. 28 Jan. 2020: *Morphogenesis of sulci in brain organoids*, seminar at the Institut Jean Le Rond $\partial$'Alembert, Sorbonne Université, Paris.
7. 23 Oct. 2017: *Rayleigh-Taylor instability in elastic bilayers*, seminar at the Institut Jean Le Rond $\partial$'Alembert, Sorbonne Université.

## Other presentations

1. 9 July 2024: *Metamaterial structures inspired by microorganism motility*, seminar at the Faculty of Science, University of Amsterdam.
2. 4 July 2024: *The shape of the heart*, seminar at the Faculty of Mechanical Engineering, TU Delft.
3. 18 June 2024: *Fracture nucleation in soft matter as an elastic instability*, seminar at the Lorentz Institute, Leiden University.
4. 18 Jan. 2024: *Mathematical modelling of brain tumour growth: model order reduction and patient-specific parameter estimation*, workshop "Mathematics for Artificial Intelligence and Machine Learning", Università Bocconi, Milano.
5. 28 Aug. 2023: *Mathematical modelling of brain tumour growth: reduced order modelling and parameter estimation*, Congress of the Italian Society of Applied and Industrial Mathematics (SIMAI), University of Basilicata.
6. 6 June 2023: *Tunable buckling of dielectric-elastomer spherical shells*, XXII International Conference on Waves and Stability in Continuous Media (WASCOM), Bari.
7. 17 June 2022: *Mathematical modelling of initially stressed materials*, XXIII Symposium on Trends in Applications of Mathematics to Mechanics, Catholic University of Sacred Heart, Brescia.
8. 2 Sep. 2021: *From coronavirus infections to Alzheimer's disease: Pearling of damaged axons*, Congress of the Italian Society of Applied and Industrial Mathematics (SIMAI), University of Parma.
9. 1 Sep. 2020: *Innovative structures inspired by microorganism motility*, XLV Summer School on Mathematical Physics (GNFM – INdAM), Ravello.

10. 13 Sep. 2018: *On the mathematical modelling of muscle contraction*, XLIII Summer School on Mathematical Physics (GNFM – INdAM), Ravello.

11. 5 July 2018: *On the stability of soft incompressible spheres with residual stresses*, 10th European Solid Mechanics Conference, Bologona.

12. 29 June 2017: *Rayleigh–Taylor instability in soft elastic layers*, International Workshop on Modelling of Nonlinear Continua, Castro Urdiales.

13. 12 Sep. 2016: *Chemo–mechanical feedback in solid tumor growth*, XLI Summer School on Mathematical Physics (GNFM – INdAM), Ravello.

14. 1 Sep. 2016: *Chemo–mechanical feedback in solid tumor growth*, workshop "Constitutive behaviour of soft tissues: connecting experimental and modelling perspectives", University of Manchester.

15. 23 Sep. 2015: *A mathematical model of skeletal muscle tissue with damage due to aging*, XL Summer School on Mathematical Physics (GNFM – INdAM), Ravello.

## ORGANIZING ACTIVITY

- Member of the organizing committee of the workshop *Mathematics for our Health (M4H)*, https://www.mate.polimi.it/events/M4H24/.

- Co-organizer (together with C. Giverso, G. Lucci, G. Pozzi) of the mini-symposium *Mathematical modelling in biology* at the congress of the *Italian Society of Applied and Industrial Mathematics* 2023, held at the University of Basilicata (28/8/2023 – 1/9/2023)

- Member of the organizing committee of the conference *MOX 20* for the twentieth anniversary of the founding of MOX Laboratory, https://mox.polimi.it/mox20/.

- Co-organizer (together with V. Balbi) of the mini-symposium *Soft tissue biomechanics: From experiments to mathematical modelling* at the congress of the *Italian Society of Applied and Industrial Mathematics* 2020-21 held at the University of Parma (30/8/2021 – 3/9/2021)

## REVIEWING ACTIVITY

Reviewer for the following journals
- *Bulletin of Mathematical Biology*
- *Computer Methods and Programs in Biomedicine*
- *Continuum Mechanics and Thermodynamics*
- *Extreme Mechanics Letters*
- *International Journal of Engineering Science*
- *International Journal of Non-Linear Mechanics*
- *International Journal of Solids and Structures*
- *Journal of Elasticity*
- *Journal of Engineering Mathematics*
- *Journal of Mechanics of Materials and Structures*
- *Journal of the Mechanics and Physics of Solids*
- *Mathematics and Mechanics of Solids*
- *Mathematics in Engineering*
- *Meccanica*
- *Physical Review E*
- *Physical Review Letters*
- *Proceedings of the Royal Society A*
- *Soft Matter*

for a total of 49 reviews.

Reviewer for the following funding agency
- *European Research Council* (Starting Grant)
- *Human Frontier Science Program* (Research Grants)

Reviewer for Mathematical Reviews

### Supervised master's students

*L. Le Saux* | 2024
- Programme: *Master 1 in Mathématiques Appliquées*
- University: *Insitut Polytechnique de Paris, ENSTA*
- Title of the thesis: *A thermodynamically consistent mathematical model of cardiac contractility*

*F. Magni* | 2024
- Programme: *Corso di Laurea Magistrale in Ingegneria Matematica*
- University: *Politecnico di Milano*
- Title of the thesis: *A mathematical model of axonal beading based on the theory of active material surfaces*
- Will start in November 2024 a Ph.D. in Mathematics at SISSA

*A. Conti* | 2024
- Programme: *Corso di Laurea Magistrale in Ingegneria Informatica*
- University: *Politecnico di Milano*
- Title of the thesis: *Improving mathematical models of cancer by including resistance: A study on bladder cancer*

### Co-supervised master's students

*V. Pederzoli* | 2024
- Programme: *Corso di Laurea Magistrale in Ingegneria Matematica*
- University: *Politecnico di Milano*
- Title of the thesis: *A mathematical model of brain atrophy in Alzheimer's disease*
- Supervisor: *P. F. Antonietti*
- Currently Ph.D. student in Mathematical Models and Methods in Engineering at Politecnico di Milano

*D. Cerrone* | 2023
- Programme: *Corso di Laurea Magistrale in Ingegneria Matematica*
- University: *Politecnico di Milano*
- Title of the thesis: *A Neural Network approach to Reduced Order Model of Glioblastoma Growth and its Neuroimaging-informed Estimation of Patient-Specific Parameters*
- Supervisor: *P. Ciarletta*
- Currently software engineer in *Leonardo*

*G. Ewald* | 2022
- Programme: *Master 2, Génie Mécanique et Matériaux*
- University: *Ècole des Ponts ParisTech*
- Title of the thesis: *Mechanical instabilitis in materials with softening*
- Supervisor: *P. Ciarletta*
- Currently Ph.D. student in Civil Engineering at Université Grenoble Alpes

### Lecturer

*Rational mechanics*
- *University and degree programme*: Bachelor's degree in Civil Engineering, Politecnico di Milano.
- *Academic year*: 2021–2022, 2022-2023, 2023-24.
- *Number of students*: ∼40.
- *Language*: English.

### Teaching Assistant

*Rational mechanics*
- *University and degree programme*: Bachelor's Degree in Biomedical Engineering and Telecommunication Engineering, Politecnico di Milano.
- *Academic year*: 2020–2021 (**2 courses**).
- *Number of students*: ∼150.

- *Language*: Italian.

*Calculus II*
- *University and degree programme*: Bachelor's Degree in Electronic and Computer Engineering, Università di Trieste.
- *Academic year*: 2019–2020.
- *Number of students*: ∼100.
- *Language*: Italian.

*Linear algebra and geometry*
- *University and degree programme*: Bachelor's Degree in Naval Architecture and Marine Engineering, Università di Trieste.
- *Academic year*: 2019–2020.
- *Number of students*: ∼100.
- *Language*: Italian.

*Mathematical and physical modeling in engineering*
- *University and degree programme*: Master's Degree in Mathematical Engineering, Politecnico di Milano.
- *Academic year*: 2015-2016, 2016-2017, 2017-2018.
- *Number of students*: ∼25.
- *Language*: English.

*Calculus I*
- *University and degree programme*: Bachelor's degree in Civil Engineering, Politecnico di Milano.
- *Academic year*: 2016-2017.
- *Number of students*: ∼150.
- *Language*: Italian.

## INSTITUTIONAL ACTIVITY

- Since Sep. 2021: member of the Programme Board of Civil Engineering at the Politecnico di Milano.

## RECRUITMENT

- Feb 2024: participation to the committee for the selection of teaching assistants for the courses of Mathematical Physics at the Politecnico di Milano.

- Oct 2022: participation to the committee for the selection of a postdoc in Mathematical Physics at the Politecnico di Milano.

- Sept 2022: participation to the committee for the selection of tutors for the bachelor's degree in Civil Engineering at the Politecnico di Milano.

- Jan 2022: participation to the committee for the selection of teaching assistants for the courses of Mathematical Physics at the Politecnico di Milano.

- Oct 2021: participation to the committee for the selection of a postdoc in Mathematical Physics at the Politecnico di Milano.

## MEMBERSHIPS

- 2016–present: member of the *Gruppo Nazionale di Fisica Matematica* of the *Istituto Nazionale di Alta Matematica* (National Institute of Higher Mathematics).

- 2019–present: member of the *Italian Association of Theoretical and Applied Mechanics* (AIMETA)

- 2021–present: member of the *Italian Society of Applied and Industrial Mathematics* (SIMAI).

## POPULARIZATION – ARTICLES

- D. Riccobelli. Un'introduzione ai modelli matematici. *Nuova Secondaria*, 9, 2016

## POPULARIZATION – OTHER ACTIVITIES

- Participation to the "SISSA for schools" program (2019).

- Participation to the "Meet me tonight – Incontri con la scienza" (2017–2018).

- Tutor for high school students in preparation for the Italian Mathematical Olympiad (2014–2018).

Brescia, July 26, 2024