

Dr. Emilio Barchiesi

Current Position

Since March 2025 **Associate Professor**, *Università degli Studi di Sassari*, Italy.
Dipartimento di Architettura, design e urbanistica. Settore scientifico disciplinare ICAR/08 - Scienza delle costruzioni.

Education and Qualifications

- Dec. 2025 **Iscrizione all'Albo degli esperti in innovazione tecnologica**, *Ministero delle Imprese e del Made in Italy*, Italy.
- Feb. 2025 **Iscrizione al Registro digitale di esperti scientifici indipendenti**, *Ministero dell'Università e della Ricerca*, Italy.
- July 2020 **Abilitazione Scientifica Nazionale alle funzioni di professore universitario di seconda fascia**, *Ministero dell'Università e della Ricerca*, Italy.
Settore concorsuale 08/B2 - Scienza delle Costruzioni.
- Feb. 2020 **Qualification aux fonctions de maître de conférences**, *Ministère de l'Enseignement supérieur et de la Recherche*, France.
Section 60 - Mécanique, génie mécanique, génie civil, N° de qualification 20260342911.
- Nov. 2019 **Ph.D. in Theoretical and Applied Mechanics**, *Sapienza Università di Roma*, Italy.
Synthesis of second gradient architected metamaterials: micro-to-macro approaches, numerical investigations, additive manufacturing and experimental validation. Final grade: *cum laude*.
- July 2016 **M.Sc. in Mathematical Engineering**, *Università degli Studi dell'Aquila*, Italy.
Stochastic Modelling and Optimization. Final grade: 110/110 *cum laude*.

Work Experience

- 03/2022-02/2025 **Ricercatore di tipo B**, *Università degli Studi di Sassari*, Italy.
Tenure track Assistant Professor. Dipartimento di Architettura, design e urbanistica. Settore scientifico disciplinare ICAR/08 - Scienza delle costruzioni.
- 11/2021-02/2022 **Marie Skłodowska-Curie COFUND fellow**, *Université Bretagne-Sud*, France.
Institut de Recherche Dupuy de Lôme, UMR CNRS 6027, Pôle thématique de recherche Comportement et Durabilité des matériaux.
- 02/2021-10/2021 **Post-doctoral fellow**, *École Nationale d'Ingénieurs de Brest*, France.
Institut de Recherche Dupuy de Lôme, UMR CNRS 6027, Pôle thématique de recherche Comportement et Durabilité des matériaux.
- 02/2020-01/2021 **Post-doctoral fellow**, *Università degli Studi dell'Aquila*, Italy.
International Research Centre on the Mathematics and Mechanics of Complex Systems.
- 2018-2021 **Teaching assistant**, *Università degli Studi di Sassari*, Italy.
Dipartimento di Architettura, design e urbanistica.
- 2017-2020 **Teaching assistant**, *Università Telematica Internazionale Uninettuno*, Italy.
Facoltà di Ingegneria.

Institutional responsibilities

Since 2024 **Member**, *Scientific Committee*, International Research Center M&MoCS, *Università degli Studi dell'Aquila*.
Elected with 50 votes. Number of voters: 127. Eligible voters: 205. Votes tallied: 532 (each voter can indicate up to 5 preferences). Abstentions: 4.

- 2024-2026 **Member**, *Gruppo di Esperti Valutatori*, VQR 2020-2024, Agenzia nazionale di valutazione del sistema universitario e della ricerca
Area disciplinare 08b Ingegneria Civile.
- Since 2022 **Director**, *Laboratorio Prove su Materiali*, Dipartimento di Architettura, design e urbanistica, Università degli Studi di Sassari.
- Since 2022 **Membro del Collegio dei docenti**, *Corso di dottorato in Architettura e Ambiente*, Dipartimento di Architettura, design e urbanistica, Università degli Studi di Sassari.
Cicli 38°, 39°, 40° e 41°.
- Since 2016 **Scientific referee for various research funding agencies**
Narodowe Centrum Nauki (Poland); Swiss National Science Foundation (Switzerland); LINZ Institute of Technology (Austria).

Editorial responsibilities

- Since 2025 **Advisory Board Member**, *Mechanics Research Communications*, Elsevier.
- Since 2022 **Review Editor**, *Frontiers in Built Environment - Computational Methods in Structural Engineering*, Frontiers.
- Since 2022 **Editorial Board Member**, *Continuum Mechanics and Thermodynamics*, Springer Nature.
- Since 2022 **Editorial Board Member**, *Mathematics and Mechanics of Solids*, SAGE Publications.
- Since 2019 **Managing Editor**, *Mathematics and Mechanics of Complex Systems*, Mathematical Sciences Publishers.
- 2019-2020 **Associate Editor**, *Journal of Applied and Computational Mechanics*, Shahid Chamran University of Ahvaz.

Memberships and affiliations

- Since 2025 **Associazione Italiana di Meccanica Teorica e Applicata AIMETA.**
- 2021-2023 **Instituto de Investigación Científica de la Universidad de Lima IDIC.**
Grupo de investigación Métodos Numéricos/Computacionales, Computación Gráfica y Científica.
- 2020-2024 **Istituto Nazionale di Alta Matematica “Francesco Severi” INDAM.**
Gruppo Nazionale per la Fisica Matematica GNFM.
- 2021-2022 **Association Française de Mécanique AFM.**
- 2020-2022 **Centro di Eccellenza CETEMPS.**
Centro di Eccellenza in Telerilevamento E Modellistica Previsionale di eventi Severi.
- 2019-2020 **European Mechanics Society EUROMECH**, n. 205630.
- Since 2024 **CNRS International Research Project BIOMECADIC.**
- 2019-2023 **CNRS Laboratoire International Associé COSS&VITA.**
Now CNRS International Research Project COSS&VITA. Team Generalized Continua and Metamaterials.
- Since 2016 **International Research Centre M&MOCS.**
International Research Centre on Mathematics and Mechanics of Complex Systems.

Conferences organization

- 2026 **Local organizer**, *ICoNSoM 2026. International Conference on Nonlinear Solid Mechanics*, Alghero (Italy), June 11–18.
- 2025 **Chair**, *MIMS25. International Workshop on Multiscale Innovative Materials and Structures*, Cetara (Italy), Oct. 29–Nov. 1.
Co-chairs: Fernando Fraternali, Ada Amendola, Anthony D. Rosato

- 2024 **Organizer**, *Discrete and continuum models for microstructured materials*, Alghero (Italy), April 23–24.
- 2024 **Local organizer**, *ICoNSoM 2024. International Conference on Nonlinear Solid Mechanics*, Cagliari (Italy), June 11–14.
- 2024 **Mini-Symposium organizer**, *Damage in structural systems: innovative computational approaches. ICoNSoM 2024. International Conference on Nonlinear Solid Mechanics*, Cagliari (Italy), June 11–14.
Co-organizers: Salvatore Sessa, Luca Placidi.
- 2023 **Local organizer**, *International Conference on Modelling complexity in Mechanics*, Alghero (Italy), Sept. 25–29.
- 2023 **Organizer**, *Workshop Mathematical modelling in biology and medicine*, Arpino (Italy), May 8–12.
- 2022 **Local organizer**, *ICoNSoM 2022. International Conference on Nonlinear Solid Mechanics*, Alghero (Italy), June 13–16.
- 2021 **Organizer**, *First Joint Italo-Peruvian Workshop on Advances in Applied and Theoretical Sciences for Engineering*, Arpino (Italy), Sept. 21–22.
Co-organizers: Daria Scerrato, Alexandre Almeida Del Savio, Francisco James León Trujillo.
- 2021 **Scientific board**, *Mathematical Modelling and Control for Healthcare and Biomedical Systems (MCHBS 2021)*, Roma (Italy), Sept. 8–10.
- 2019 **Local organizer**, *ICoNSoM 2019. International Conference on Nonlinear Solid Mechanics*, Rome (Italy), June 16–19.

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679).

13/01/2025

Emilio Barchiesi

