

Curriculum Vitae

INFORMAZIONI PERSONALI

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FORMAZIONE TITOLI

Mario Argenziano graduated in Building Engineering and Architecture at the University of Naples "Federico II" with full honours cum laude. From the same university, he received a PhD degree in Structural, Geotechnics and Seismic Risk in May 2022, by defending a thesis dealing with analytical methods and optimization criteria for designing mass damping-based solutions for the seismic protection of new and existing buildings under the supervision of Prof. M. Fraldi and E. Mele.

He was visiting post-doc fellow at the Disaster Prevention Research Institute (DPRI) at Kyoto University (Japan) from November to December 2022, as principal investigator of the research project entitled "Structural dynamics approaches for mitigating the seismic risk of Italian existing buildings" collaborating with Prof. Y. Ikeda.

PUBBLICAZIONE

Selected publications:

- Argenziano, M., Faiella, D., Bruni, F., De Angelis, C., Fraldi, M., & Mele, E. (2021), *Upwards-Vertical extensions of masonry built heritage for sustainable and antifragile urban densification*, Journal of Building Engineering, 102885, (<https://doi.org/10.1016/j.jobe.2021.102885>);
- Argenziano, M., Faiella, D., Carotenuto, A.R., Mele, E., & Fraldi, M., (2022) *Generalization of Den Hartog Model and Rule-of-Thumb Formulas for Optimal Tuned Mass Dampers*, Journal of Sound and Vibration, 117213, ISSN 0022-460X, (<https://doi.org/10.1016/j.jsv.2022.117213>);
- Argenziano, M., Cutolo, A., Babilio, E., Carotenuto A.R. & Fraldi, M., (2023), *Moving mass over a viscoelastic system: asymptotic behaviours and insights into nonlinear dynamics*, Nonlinear Dynamics, (<https://doi.org/10.1007/s11071-023-08465-z>);
- Argenziano, M., Babilio, E., Ikeda, Y., & Fraldi, M., (2025), *A heretical point of view in masonry structures dynamics*, Royal Society Open Science, R. Soc. Open Sci.12: 241148 (<https://doi.org/10.1098/rsos.241148>);
- Argenziano, M., Zingales, M., Cutolo, A., Bologna, E., & Fraldi, M., (2025), *Competition between elasticity and adhesion in caterpillar locomotion*, Journal of the Royal Society Interface, DOI: 10.1098/rsif.2024.0703 (<https://doi.org/10.1098/rsif.2024.0703>);

AMBITI DI RICERCA

Mario Argenziano is Assistant Professor in Mechanics of solids and structures at the Department of Engineering, University of Palermo, Italy, since March 2023.

He is currently working on the mechanical modelling and the design of bio-inspired intelligent implantable soft robots for personalized medicine with numerous applications in biomedical engineering, within the research project SAMOTHRACE, whose WP 5 (spoke 3) is coordinated by Prof. Massimiliano Zingales, from the University of Palermo.

Scopus Profile: <https://www.scopus.com/authid/detail.uri?authorId=57224919514>

Google Scholar Profile: <https://scholar.google.co.uk/citations?user=j3YDUVwAAAAJ&hl=en>

