Luca Di Stasio

Early Stage Researcher

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Research Interests ———

▤ **Linear and non-linear behavior of materials and structures:** elasticity, fracture, plasticity, viscoelasticity, viscoplasticity, piezoelectricity, magnetostriction

▤ **Multi-scale computational modeling of materials:** Finite Element Method (FEM) and its variants, Lattice Boltzmann Method (LBM), Molecular Dynamics (MD), Discrete Element Method (DEM)

▤ **Modeling of fatigue, fracture, and damage in polymers and FRPC:** delamination, transverse cracking, fiber-matrix debonding, transverse cracking induced delamination

▤ **Experimental mechanics of FRPC:** mode I, II, III and mixed mode I-II delamination, automated observation of transverse cracks, estimation of stiffness reduction, loading rate effects, effect of curing history and degree of cure on mechanical properties

▤ **Theoretical, experimental and computational fracture mechanics:** interface cracks, Fracture Mechanics, Virtual Crack Closure Technique (VCCT), J-integral, Cohesive Zone Model (CZM), eXtended Finite Element Method (X-FEM)

▤ **Adoption and dissemination of Open Science practices:** open innovation, research data management, research software development and maintenance, open data, open source software

▤ **Learner-centered pedagogy and teaching in higher education:** signature pedagogies, threshold concepts, taxonomies, learning objectives, physical and virtual learning spaces

Research Area and Approach

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Current and Past Research

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Future Research Directions

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