

**LUCA DI STASIO**  
**Postdoctoral Researcher**

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Dear Hiring Team,

My Ph.D. in Materials Science & Engineering focused on computational mechanics of composite materials and more than 2 years as a postdoctoral fellow in computational solid and fluid mechanics and advanced fracture mechanics, along with my multidisciplinary engineering background, provide me with the skills to enrich the portfolio of the R&D department at GEA Group in a Modelling and Simulation Engineer capacity.

I offer proficiency in several computational methods of thermo-solid mechanics (FEM, BEM), thermo-fluid mechanics (LBM, FVM), fracture and damage mechanics (CZM, VCCT, J-integral, interaction integrals), mesh generation and computational geometry (Delaunay triangulation, transfinite interpolation, elliptic/parabolic/hyperbolic mesh smoothing). I have experience in using both commercial simulation software (Abaqus, Ansys, Comsol, Thermal Desktop, SolidWorks, AutoCAD) and open-source solutions. I am expert in several programming languages (Python, C++, Julia, Matlab, Mathematica, Javascript), as outlined in my CV.

Curious by nature, I devoted my formative years to build a solid background in multiple areas of engineering. The opportunity of living and working in several countries has allowed me not only to become fluent in different languages but most importantly to master cross-cultural communication skills. Flexibility, adaptability, and rapid response to change are qualities that I have nurtured by navigating multiple work environments. Honesty, transparency, and a positive attitude towards challenges have helped me earn the trust of colleagues and management alike. The ability to communicate candidly in the workplace has allowed me to build a broad network across different countries and scientific fields. A self-starter, I am comfortable working in a team as well as independently and able to deliver under minimal or no supervision.

I am eager to put my skills and experience in service of GEA Group's success, and I am confident we should arrange a time to meet. In the meantime, I wish to thank you for taking the time to consider my application and review my qualifications.

Sincerely,  
Luca Di Stasio