

## **Ludovico Musenich**

*Ph.D. Candidate in Mechanical Engineering  
University of Genoa*

I am a Ph.D. candidate in Mechanical Engineering at the University of Genoa. I got a master's degree in Mechanical Engineering with honors in 2020 by discussing a thesis on the FEM structural design of the DarkSide-20k dark matter detector frame, carried out in collaboration with the National Institute of Nuclear Physics (INFN) and part of an international project. I am currently working in the field of biomimetic design of advanced structural materials. My research aim is to integrate the results of the natural evolution process into engineering materials to optimize their performances, extend their functionality and ensure their sustainable exploitation.