



## Salvatore Cutugno

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I'm a PhD student in "Mechanical, Manufacturing, Management and Aerospace Innovation" at University of Palermo, particularly interested in biomedical research and industrial design.

### Education:

- **Beachelor degree:**  
Mechanical engineering, University of Palermo (2018)
- **Master degree:**  
Mechanical engineering, University of Palermo (2020)

### Experience:

- **Experimental thesis "The viscoelastic failure of the aortic tissue":** Performing creep test on aortic tissue to fit experimental data with a fractional derivatives model used to predict the viscoelastic behaviour of the tissue.
- **Experimental thesis "Characterization of crack growth under fatigue loads in AISI 304L steel by means of Thermoelastic Stress Analysis":** Use of TSA technique to find the parameters of the Paris law and to evaluate the effects of overloads and crack closure on the thermoelastic and the second harmonic signal.
- **Internship at ISMETT:** Human heart digital model database production by means of CT scan. Use of principal components analysis to develop a statistical shape model of left ventricle for stenotic patients

### Skills:

- **Scientific and technical knowledge ranging in the main sectors of industrial engineering:** structural analysis, thermo-fluid dynamics, electrotechnics, mechanical technology, control and management of production processes.
- Good command of calculation softwares (**Excel, MATLAB**) and CAD softwares (**AutoCAD, SolidWorks, Rhinoceros**). Basic competence in the use of softwares for FEM analysis (**Ansys, Abaqus**). Ability to produce complex texts in **LaTeX**.
- **English language:** Good understanding of both written and spoken English. I can interact in English both in informal and working contexts.