MARIANGELA DE MAIO

MECHANICAL ENGINEER

I have good problem solving skills, always trying to find a compromise between technical knowledge and creativity. I have natural flexibility and adaptability, which let me get along with the other members of a team. I always look forward to challenging myself and acquiring new skills.

CONTACTS

01/09/96

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EDUCATION

2021-present — **PHD in Aerospace Engineering**
La Sapienza, University of Rome
Winner of the fellowship in collaboration with Avio SpA
Project: DNS of conjugate heat transfer in ducts with large roughness and definition of improved wall-functions

2018-2021 — **Master's Degree in Mechanical Engineering**
Mechanical Design
La Sapienza, University of Rome
Vote: 110/110 cum laude
Thesis: DNS of turbulent free and confined jets using GPUs

2015-2018 — **Bachelor's Degree in Mechanical Engineering**
La Sapienza, University of Rome
Vote: 110/110 cum laude
Thesis: Stress and deformations of Morandi's Bridge in Catanzaro

2010-2015 — **High school diploma**
Liceo Scientifico Luigi Siciliani, Catanzaro
Vote: 100/100

LANGUAGES

Italian
Mother tongue

English
B2 - Cambridge FCE Certificate (2015)- Improved to C1

German
B1

INTERESTS

Computational Fluid Dynamics, Programming

FURTHER EDUCATION: COURSES

2021 — **Introduction to Fortran for Scientific Computing**
Cineca Seminary

2021 — **Programming paradigms for GPU devices**
Cineca Seminary

2021 — **Introduction to Parallel Computing with MPI and OpenMP**
Cineca Seminary

2021 — **Virtual School on Numerical Methods for Parallel CFD**
Cineca Seminary

2021 — **Machine learning**
La Sapienza, University of Rome

2021 - Present — **Numerical analysis of Signals**
La Sapienza, University of Rome

EXPERIENCES & PROJECTS

2020	Project	**Design and coding of FEM for the stress analysis of a Cheetah orthotropic prothesis** University group project of Mechanics of Structures
2020	Project	**Design and optimization of a wine cellar using Altair Softwares** University group project of Advanced Methods in Mechanical Design
2016	Award	**Enel Fellowship: "Diventare ingegnere: un gioco da ragazze"**
2018, 2019, 2020	Competition	**European BEST Engineering Competition** • Case study: solution of a current economical, legal or social problem. • Team Design: design, creation and presentation of a prototype model.

SKILLS

Programming languages	Fortran, Python, Matlab, Wolfram Mathematica
Softwares	Solid edge, CATIA, Ansys, Ansys Fluent, Altair Hypermesh, Paraview, Tecplot, Office