



# Chiara Matteucci

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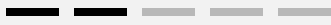
📍 Rome, Italy ·

## Skills

Matlab



OpenFOAM



OpenSMOKE++



gmsh



LaTeX



## Languages

Italian



Polish



English



Spanish



French



## Profile

I am an Aerospace Engineer who has obtained a Master's Degree in Space and Astronautical Engineering. I possess brilliant thinking and analysis skills, as well as a great disposition towards team working, due to multiple years of university and volunteering experiences. I am a positive and optimistic person, always giving my all to what I do. I continuously seek new challenges to improve myself professionally, and as a human being.

## Education

### PhD in Aeronautical and Space Engineering

Nov 2023 - Ongoing

University of Roma "La Sapienza"

Fellowship title: Green and sustainable transition of the energy and propulsion sectors towards climate neutrality: Numerical simulation of turbulent flows reacting with 'carbon-free' energy carriers.

### Master's Degree in Space and Astronautical Engineering

Sep 2020 - Jan 2023

University of Roma "La Sapienza"

Graduated after completing the Honours Program. Graduated with a thesis titled: "Design and simulation of GCH<sub>4</sub>-GO<sub>2</sub> injectors for oxidizer-rich staged combustion engines". This work aimed to establish a numerical framework able to aid in the design process of gas-gas injectors. Final grade: 110/110, cum laude.

### Bachelor's Degree in Aerospace Engineering

Sep 2017 - Oct 2020

University of Roma "La Sapienza"

Graduated with a thesis titled: "Green Propulsion: Ionic Liquids as Replacements for Hydrazine", in which a performance analysis of hydrazine and two monopropellants based on ionic liquids, i.e. AF-M315E and LMP-103S, was conducted using the NASA Chemical Equilibrium Analysis (CEA) code. Final grade: 104/110

## Work Experience

### Junior Research Grant

Mar 2023 - July 2023

University of Roma "La Sapienza"

Support to the LES simulation of swirled flames