



# Francesco D'Alessio

Graduand student

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## About Me

I am an efficient, ambitious and cheerful person, who does not allow himself to be beaten down by temporary failures but perseveres towards his own goals.

## Languages

- Italian
- English

## Hard Skills

- Analytical skill
- Computer-Aided Design
- Programming

## Soft Skills

- Problem solving
- Stress-proof
- Team work
- Reliable

## Career

2022 – 2024 **Ph.D. student** Università degli studi di Roma- La Sapienza  
 My research focuses on the use of ammonia as an energy vector. Specifically, I am dealing with detailed numerical simulations (DNS) and the possible generation of LES models for the direct use of ammonia as fuel.

## Education

Study

2018 – 2021 **M.Sc. Space and Astronautical engineering** Università degli studi di Roma- La Sapienza  
 My studies concern system design propulsive, with solid or liquid propellant, the definition of the entry trajectory in orbit and related problems of driving, navigation and control, and the structural problems of the launcher.

**Master Theses**  
 Direct numerical simulation of Hydrogen-enriched premixed flames.

2014 – 2017 **B.Sc. Aerospace engineering** Università degli studi di Napoli-FedericoII  
 An overview of fundamental topics and subjects typical of aerospace sector.

**Bachelor Theses**  
 Kinect Multi-Camera Control Procedures for Autonomous Navigation Applications.

2014 **High school scientific diploma** Istituto F.Giordani-Caserta  
 (Degree: 100/100)

## Extra-Curricular Activities

2016 –2018 **UniNa Corse C-Team** Università degli studi di Napoli-FedericoII  
 I participated for two years in the FedericoII stable in the aerodynamics group as a CAD designer, FEM analyst and carbon fibre laminator first and as department head subsequently.

## Projects

2019 **M.I.R.O.** Università degli studi di Roma- La Sapienza  
 Moon Ice Radiometric Observation is a university project on the feasibility study and preliminary design of a lunar satellite for the observation and study of lunar ice.

## Computer skills

Computational Fluid Dynamics

- Nek5000
- Openfoam

Programming

- C++
- Python
- Matlab
- ForTran

Others

- Catia V5
- PTC Creo
- Hypermesh