

## WORK EXPERIENCE

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### Tutor of "Aerodynamic" Course

*"Sapienza" University of Rome, DIMA* [ 03/2020 – 05/2020 ]

**City:** Rome

**Country:** Italy

Tutor of the course "Aerodynamic" of the Bachelor Degree in Aerospace Engineering

### Scientific research activity

*"Sapienza" University of Rome, DIMA* [ 02/2018 – Current ]

**Address:** Rome (Italy)

**City:** Rome

**Country:** Italy

CFD and DSMC simulations of rarefied compressible flows for space applications.

### Internship Student

*ACC, Enav S.p.A.* [ 09/2012 – 10/2012 ]

**Address:** Rome (Italy)

**City:** Rome

**Country:** Italy

Support of the technical staff in carrying out the tasks of air traffic control, ATS services and aeronautical meteorological services.

### Internship Student

*SAAV, Enav S.p.A.* [ 06/2011 – 07/2011 ]

**Address:** Rome (Italy)

**City:** Rome

**Country:** Italy

Support of the technical staff in carrying out the tasks of air traffic control and aeronautical meteorological services at the Control Tower and ARO operating rooms.

## EDUCATION AND TRAINING

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### PhD in Theoretical and Applied Mechanics

*"Sapienza" University of Rome* [ 15/10/2018 – Current ]

**Address:** Rome (Italy)

**Level in EQF :** EQF level 8

### Master degree cum laude in Aeronautical Engineering

*"Sapienza" University of Rome* [ 09/2015 – 01/2018 ]

**Address:** Rome (Italy)

**Level in EQF :** EQF level 7

### Internship Master Thesis

*Agenzia Spaziale Italiana (ASI)* [ 09/2017 – 01/2018 ]

**Address:** Rome (Italy)

**Level in EQF :** EQF level 7

Numerical Simulations of Rarefied Gas Flows with "Direct Simulation Monte Carlo" Method.

### Bachelor degree in Aerospace Engineering

*"Sapienza" University of Rome* [ 09/2012 – 07/2015 ]

**Address:** Rome (Italy)

**Level in EQF :** EQF level 6

### Aeronautical technical expert

*Aeronautical technical institute "F. De Pinedo"* [ 09/2007 – 06/2012 ]

**Address:** Rome (Italy)

**Level in EQF :** EQF level 4

Aerotechnics, Meteorology, Air Navigation, Air Traffic Control

## LANGUAGE SKILLS

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Mother tongue(s):

**Italian**

**English**

**LISTENING:** C1 **READING:** C1 **WRITING:** B2

**SPOKEN PRODUCTION:** B2 **SPOKEN INTERACTION:** B2

## PUBLICATIONS

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**Large-Eddy Simulation of Vortex Shedding and Pressure Oscillations in Solid Rocket Motors**

[2020]

# **Aerothermodynamic Analysis of High-Altitude Space Launcher with Direct-Simulation-Monte-Carlo Method**

[2019]

## **PROJECTS**

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### **Sapienza Flight Team (SFT)**

Optimization and Aerodynamic teams

## **HONOURS AND AWARDS**

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### **"Giulio Guj" Master Degree Prize**

Best Master Thesis in Fluid Dynamics of the 2016-2017 A.Y.

**Excellent graduate of the Faculty of Civil and Industrial Engineering (2016-2017 A.Y.)**

**Excellence program of the master's degree course in Aeronautical Engineering**

## **CERTIFICATIONS**

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### **School on Numerical Methods for Parallel CFD**

CINECA

### **HPC methods for Computational Fluid Dynamics and Astrophysics**

CINECA

### **Debugging and Optimization of Scientific Applications**

CINECA

### **Introduction to modern Fortran**

CINECA

### **Pegasus Certificate**

The European Network of excellence in Aerospace Engineering Education

### **ICAO L4 Training Course**

TEA - Test of English for Aviation (Final result - 5/6)

### **Aircraft Pilot License (VDS Aircraft)**

## **DRIVING LICENCE**

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Driving Licence: **A**

Driving Licence: **B**