



# Alex Falco

**Date of birth:** 02/08/2000 | **Nationality:** Italian | **Gender:** Male | **Phone number:** (+39) 3317892644 (Mobile) |

**Email address:** [alex.falco@uniroma1.it](mailto:alex.falco@uniroma1.it) | **Address:** Via Mar Ligure 14/D, 00071, Pomezia, Rome, Italy (Home)

## EDUCATION AND TRAINING

09/2022 – 10/2024 Rome, Italy

**MASTER'S DEGREE IN SPACE AND ASTRONAUTICAL ENGINEERING** University "Sapienza" of Rome

Thesis on Space Transportation:

"URANS/RANS investigation of thermo-acoustic coupling in a rocket combustor"

**Final grade** 110/110 with honors

09/2019 – 10/2022 Rome, Italy

**AEROSPACE ENGINEERING BACHELOR'S DEGREE** University "Sapienza" of Rome

Thesis on Rocket propulsion:

"Previsioni di spinta e pressione in camera in funzione delle caratteristiche geometriche del grano propellente"

**Final grade** 110 with honors

## WORK EXPERIENCE

10/2024 – CURRENT Rome, Italy

**PHD STUDENT** UNIVERSITY "SAPIENZA" OF ROME

Focused on combustion instability modeling and thermoacoustic analysis of space rocket engine applications.

## DIGITAL SKILLS

ANSYS Workbench, ANSYS Fluent | Fortran (conoscenza limitata) | Experience in MATLAB, python, and R | CEARUN (NASA's computer code)

## PROJECTS

2022 – CURRENT

**Paraffin-Oxygen Hybrid Rocket Engine Development and Testing.**