

GIANLUCA PORPORA

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EDUCATION

La Sapienza - University of Rome

Rome, IT

Phd in Aeronautical and Space Engineering (40th cycle)

Nov 2024 - Present

- Main research interests: Computational Fluid Dynamics
- Supervisor: Prof. Sergio Pirozzoli

University of Naples Federico II

Naples, IT

Master of Aerospace Engineering, Fluid Dynamics/Propulsion curriculum

Oct 2021 - Oct 2024

- Graduation grade : 110/110 cum laude
- Final Dissertation: *Predicting unsteadiness in turbulent separated flows based on global stability*
- Relevant Coursework: Aircraft Aerodynamics, Turbulence, Fluid dynamic Stability, Computational Fluid Dynamics, Spacecraft Propulsion, Hypersonic Aerodynamics, Rotary wing Aerodynamics
- Degree course belonging to the "PEGASUS" network

University of Naples Federico II

Naples, IT

Bachelor of Aerospace Engineering

Sept 2017 – Sept 2021

- Graduation grade: 110/110
- Final Dissertation: *Autoturboreattori: motori ATR e ATREX a ciclo variabile per la propulsione supersonica e ipersonica*
- Relevant Coursework: Aerodynamics, Gas dynamics, Numerical Methods, Flight Mechanics, Aerospace Systems, Structural Mechanics, Aerospace Constructions

ACADEMIC PROFILE

- Aerospace engineer specialized in the fluid dynamics field
- Focus on: external aerodynamics, computational fluid dynamics, turbulence modeling, fluid dynamic stability
- Main interests: turbulent boundary layers, RANS modeling, separated fluid flows predictions by means of stability analysis, modal analysis of fluid flows, turbulent separation bubbles, flow control

PROGRAMMING & COMPUTER SKILLS

- Software: OpenFOAM (advanced), Ansys Fluent, Matlab, Latex, GitHub. Basic/Intermediate knowledge of Simulink, FreeCAD, XFOIL, XROTOR, JavaFoil
- Programming: Python, C++, C, MatLab, Shell scripting
- Good knowledge of Linux and Windows.
- Proficient in Excel, Word, Power Point and LibreOffice

SKILLS & ADDITIONAL INFORMATION

Languages: Italian (Native), English (Fluent), French (basic knowledge)

Certifications: Cambridge C1 Advanced

Interests: Sports, Cinema, Video games, Books, Podcasts

Soft skills: Adaptability and Flexibility, Good Communication and Strong Empathy skills, Teamwork, Critical and Analytical thinking, Problem Solving