

PERSONAL INFORMATION Daniele Rossi

	Dottorato in Ingegneria Aeronautica e SpazialeEQF level 8Sapienza Università di RomaEQF level 8				
Do	Doctor of Philosophy (Ph.D.)				
Ма	Main research interests: Computational Fluid Dynamics, Numerical simulations of Multiphase Flows.				
Sci	Scientific publications:				
	<ul> <li>Navier-Stokes simulations of vertical sloshing with time-periodic excitation, Daniel- Rossi, Davide Ubaldini, Simone Di Giorgio, Sergio Pirozzoli, International Journal of Multiphase Flow, 2023, 167:104505. DOI:https://doi.org/10.1016/j.ijmultiphase ow.2023.104505</li> </ul>				
	<ul> <li>Simulations of vertical sloshing in a partially filled rectangular tank subjected to time- periodic excitation, Daniele Rossi, Material Research Proceedings, Vol.33, pp 269-276, 2023. DOI: https://doi.org/10.21741/9781644902677 39</li> </ul>				
Co	ferences attended:				
	<ul> <li>3rd Aerospace PhD-Days 2023- International congress of PhD students in aerospace science and engineering, April 16-19, 2023, Bertinoro (FC), Italy;</li> </ul>				
	<ul> <li>International Conference on Numerical Methods in Multiphase Flows – 5 (ICNMMF-5), June 26-28, 2024, Reykjavik, Iceland.</li> </ul>				
Cor	Courses attended:				
	<ul> <li>Open Access delle pubblicazioni e dei dati della ricerca, November 16, 2021, Sapienza University of Rome, Italy;</li> </ul>				
	<ul> <li>Banche dati e strumenti digitali a supporto della Ricerca disponibili in Sapienza: Funding institutional, Scival, Scopus, JCR (Clarivate), Research Gate, November 23, 2021, Sapienza University of Rome, Italy;</li> </ul>				
	<ul> <li>Introduction to Parallel Computing with MPI and OpenMP, March 07, 2022, Cineca Academy;</li> </ul>				
	<ul> <li>Debugging and Optimization of Scientific Applications, March 14, 2022, Cineca Academy;</li> </ul>				
	<ul> <li>Introduction to Fortran for Scientific Computing, March 22, 2022, Cineca Academy;</li> </ul>				
	<ul> <li>S.G.I. CFD Summer School (School on Computational Fluid Dynamics &amp; SuperComputing - CFD parschool), July 17-22, 2022, Gran Sasso Science Institute (GSSI), L'Aquila, Italy;</li> </ul>				
	<ul> <li>Introduction to high-performance computing, April, 2023, Sapienza University of Rome, Italy;</li> </ul>				
	<ul> <li>Risk theory in aerospace engineering, April, 2023, Sapienza University of Rome, Italy;</li> </ul>				
	<ul> <li>Introduction to Python programming, April, 2023, Sapienza University of Rome, Italy;</li> </ul>				
	<ul> <li>Computer Vision, June, 2023, Sapienza University of Rome, Italy;</li> </ul>				
	<ul> <li>Liquid Interfaces, Drops and Sprays (LIDESP), June 26-30, 2023, International Centre for Mechanical Sciences (CISM), Udine, Italy.</li> </ul>				



EQF level 7

**FOF** level 6

# 2017 - 2021 Laurea Magistrale in Ingegneria Aeronautica

Sapienza Università di Roma – Faculty of Civil and Industrial Engineering

2<sup>nd</sup> level-cycle degree/Master of Science (2 years)

Thesis title: Direct Numerical Simulation of non-circular jets

Final degree mark: 110/110 cum laude

Graduation date: 25/10/2021

Principal subjects covered during the course:

- Fluid dynamics: Gas dynamics, Aircraft Aerodynamics and Design, Computational Fluid Dynamics, Aeroacoustics
- Aeronautical Propulsion: Design of Aircraft Engines, Environmental Impact of Aircraft Engines
- Aerospace Structures: Aeronautical constructions, Vibration and Noise control
- Telecommunications: Air Traffic Control

# 2014 - 2017 Laurea in Ingegneria Aerospaziale

Sapienza Università di Roma – Faculty of Civil and Industrial Engineering

1<sup>st</sup> level-cycle degree/Bachelor (3 years)

Final degree mark: 110/110

Graduation date: 14/12/2017

# Pre-university studies

Secondary school diploma: Scientific High School INNOCENZO XII, ANZIO (RM) School-leaving examination mark: **100/100** School-leaving examination taken in (year): 2014

Italian secondary school diploma

# PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING			
	Listening	Reading	Spoken interaction	Spoken production				
English	B2 - Independent	B2 - Independent	B2 - Independent	B2 - Independent	B2 - Independent			
	<b>English:</b> Cambridge English Qualification (Level B2 First) – Univers ty of Cambridge (UK), 2018 – European Level: B2							
Digital Competences	ECDL: AICA Digital Academy 2013							
	Computer skills							
	OFFICE AUTOMATION							

Office suite: Microsoft Office, LibreOffice | Spreadsheets: Microsoft Excel Word processors: Microsoft Word, LaTeX

#### **APPLICATION SOFTWARE**

CAD – Assisted Design: Solid Edge, Solid Works, OpenSCAD (Intermediate)



### **Curriculum Vitae**

# Dynamical Systems Design: Simulink (Intermediate) CFD toolbox: OpenFOAM (Intermediate), Ansys Fluent (Intermediate)

**COMPUTER PROGRAMMING** 

Programming Languages: MATLAB, Fortran, Wolfram Language (Intermediate)

### ADDITIONAL COMPETENCES AND TRAINING

2017 - 2019

2019 **FORMULA SAE (student design competition organized by SAE international):** Member of the 'mechanics and aerodynamics' department of Fast Charge, the Formula Student Electric team of Sapienza Università di Roma, that works on the design, building and testing of a prototype of a Formula-style electric race car, based on a series of rules, whose purpose is both ensuring on-track safety and promoting clever problem solving.

**Used softwares:** MATLAB, Solid Works (CAD – Assisted Design), Ansys Fluent (Fluid Simulation Software)

Driving licence B