

PERSONAL INFORMATION	Alessio Sereno			
	≥ alessio.sereno@uniroma1.com			
WORK EXPERIENCE				
November 2023 – present	PhD student			
	DIMA - University of Rome "La Sapienza" Via Eudossiana 18, Rome			
June 2022 – October 2023	Research fellowship			
	DIMA – University of Rome "La Sapienza" Via Eudossiana 18, Rome			
	Main activities:			
	Computational Fluid Dynamics Consistent Heat Transfer			
	onjugate Heat Transfer Iultiphase and Reactive flows in Solid Rocket Motors			
	 Cooling Systems for Liquid Rocket Engines 			
	Sector Rocket propulsion			
EDUCATION AND TRAINING				
September 2019 – May 2022	Master's Degree in Space Engineering			
	University of Rome "La Sapienza", Rome, Via Eudossiana 18			
	Main subjects: Fluid Dynamics and Computational Fluid Dynamics, Solid Rocket Motors, Liquid Rocket Engines, Orbital Mechanics, Space Systems.			
	Thesis title: "Numerical Analysis of Solid Rocket Nozzle Performance with Two-Phase Flow Effects"			
	Mark: 110/110			
September 2015 – September 2019	Bachelor's Degree in Aerospace Engineering			

Politecnico di Milano, Milan, Via La Masa 37/B12

Main subjects: mathematics, physics and chemistry; solid mechanics, aerodynamics; orbital and flight mechanics, space missions analysis, propulsion systems.

Mark: 102/110



PERSONAL SKILLS							
Mother tongue	Italian						
Other languages	UNDERSTANDING		SPEAKING		WRITING		
	Listening	Reading	Spoken interaction	Spoken production			
English	C1	C1	B2	B2	C1		
	Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user Common European Framework of Reference for Languages						
Communication skills	Team work: I have worked in various types of teams, both for projects during the degree course and for research purposes. I am used to learn from others, and to share my knowl-edge/expertise.						
Organisational skills	Strong commitment and goal orientation.						
Personal traits	I am passionate about my field of study and research, the space propulsion technology. I am a curious, enthusiastic person who likes to take on new challenges and learn.						
COMPUTER SKILLS							
Programming languages	 Fortran: proficient use. Matlab: proficient use. C: basic knowledge. 						
Application software	 CFD: CFD++, in-house finite volume solvers. Meshing: GMSH, ad-hoc meshing codes. Post-processing: Tecplot 360. Simulation tools: EcosimPro. CAD: Solidworks, Inventor, Solid Edge. 						
Operating systems	WindowsLinux (Ubuntu)						
Word processors	 Microsoft Office LaTeX 						
PUBLICATIONS							
[1]	Marco Grossi, Alessio Sereno, Daniele Bianchi, and Bernardo Favini. "Numerical Sim- ulation of Multiphase Flows in Solid Rocket Motors Nozzles." In: <i>AIAA 2022-3270.</i> <i>AIAA AVIATION 2022 Forum.</i> (2022).						
[2]	Marco Grossi, Alessio Sereno, Daniele Bianchi, and Bernardo Favini. "Role of Finite- Rate Kinetics on the Performance Predictions of Solid Rocket Motor Nozzles." In: <i>AIAA SciTech 2023 Forum</i> (2023).						
[3]	Marco Grossi, Alessio Sereno, Daniele Bianchi, and Bernardo Favini. "Multiphase Effects on Solid Rocket Nozzle Performance". In: <i>Journal of Propulsion and Power</i> (2023), pp. 1–13.						
[4]	Matteo Fiore, Alessio Sereno, Daniele Bianchi, and Francesco Nasuti. "Cooling system design for an upper-stage aerospike". In: <i>International Symposium on Space Technology and Science, 3-9 June 2023 Kurume, Japan</i> (2023).						