

CURRENT POSITION SSD	PhD Student ING-IND/06	
RESEARCH TOPICS	Aerodynamics, computational fluid dynamics, supersonic flows, direct numerical simulations.	
EXPERIENCES	Development of numerical methods for high-fidelity simulations of turbulent compressible flows.	
SCIENTIFIC / TECHNICAL QUALIFICATION	▪ H-index:	▪ -
	▪ No. publications:	▪ 1
	▪ No. citations:	▪ -
THEMATIC AREA KEYWORDS	▪ Energy transition:	▪ Active flow control techniques ▪ Drag reduction on transonic wings
	▪ Digital transition:	▪ Complex multiscale and multiphysics modeling ▪ Digital twin

## EDUCATION AND TRAINING

PhD November 2022 – November 2025 (expected)	PhD in Aeronautical and Space Engineering (38th cycle) La Sapienza University of Rome Fellowship title: <i>Complex multiscale and multiphysics modeling for digital twin</i> Supervisor: Prof. Sergio Pirozzoli
Master September 2020 – October 2022	Master's degree in aerospace engineering (space curriculum) University of Padova Thesis title: <i>Numerical investigation of the parachute-capsule aerodynamics in a Mars atmosphere reentry</i> Thesis advisor: Prof. Francesco Picano Vote: 110/110 cum laude
Bachelor September 2016 – March 2020	Bachelor's degree in aerospace engineering University of Padova Thesis title: <i>Fluidodinamica del nuotatore</i> Thesis advisor: Prof. Francesco Picano Vote: 95/110
Diploma September 2016 – March 2020	High School Diploma 'Maturità classica' 'Liceo Classico Jacopo Stellini', Udine Thesis title: <i>La dimensione umana del mito</i> Vote: 91/100

## MAIN RESEARCH EXPERIENCE

Horizon EuroHPC 2023	EXCELLERAT P2 (Use-Case 6): Active control for drag reduction of transonic airfoils
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## HONOURS, AWARDS, MEMBERSHIPS, OTHER QUALIFICATIONS

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2013-2021	Italia Triathlon National Team
2018	7th place at the FISU World University Championships
2017	3rd place at the U23 European Championships Relay
2014	7th place at the Youth Olympic Games

## PUBLICATIONS

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Soldati, G., Ceci, A. & Pirozzoli, S. FLEW: A DNS Solver for Compressible Flows in Generalized Curvilinear Coordinates. *Aerotec. Missili Spaz.* (2024). <https://doi.org/10.1007/s42496-024-00199-4>