Francesco Serafini

Education

2020–	**PhD in Theoretical and Applied Mechanics**, *"Sapienza" University of Rome*.
2018–2020	**Master in Aeronautical Engineering**, *"Sapienza" University of Rome*, Graduation date: 26/10/2020, Final result: 110/110 cum laude, Thesis title: Turbulent flows of dilute polymer solutions.
2015–2018	**Bachelor in Aerospace Engineering**, *"Sapienza" University of Rome*, Graduation date: 07/11/2018, Final result: 110/110 cum laude, Thesis title: Optimization of the front wing for an open wheel car.
2010–2015	**Secondary School Diploma**, *Liceo Scientifico "Louis Pasteur"*, Rome, Final result: 100/100.

Additional Education/Teamwork Experiences

2019	**Association for Unmanned Vehicle Systems International, Student Unmanned Aerial Systems Competition (AUVSI SUAS)**, *Maryland, USA*, Partecipated with the Sapienza Technology student Team.
2018-2019	**Sapienza Technology Team (STT) - Student Team**, *Technical Lead: project coordination for the design, assembly and mission analysis of an unmanned rover model for the AUVSI SUAS student competition.*
2018	**Participated at Formula Student Italy and Formula student Spain events with Sapienza Fast Charge**, *as responsible of the aerodynamic division.*
2017	**Participated at Formula Student Italy and Formula student Spain events with Sapienza Fast Charge**, *as member of the aerodynamic division.*
2016-2018	**Sapienza Fast Charge - Formula Student Team**, *Member of the aerodynamic division: responsible of front wing design and CFD analysis of the car.*

Languages

Italian	Native
English	Level C1 (CAE): Certificate in Advanced English (2014)

Research area

Turbulent flows: effects of long polymer chains on turbulent drag and turbulent sustaining mechanism

Technical skills

Good   knowledge of Computational Fluid Dynamics

Good   knowledge of Numerical methods for Polymer Dynamics

Computer skills

Good   knowledge of Fortran, Matlab, Mathematica, Python

Good   knowledge of Linux, Windows, Lateχ, Microsoft Office

Good   knowledge of parallel computing (openMP, MPI)