Experience

2021 - 2022 **Tutor, Course in Geometry**, *Mechanical Engineering*, "Sapienza" University of Rome.

Research and Publications

- 09/2022 **Drag reduction in turbulent wall-bounded flows of realistic polymer solutions**, *Phys. Rev. Lett. 129, 104502.*
 - 2022 Beyond FENE-P: Drag reduction and Turbulence dynamics in dilute solutions of high Weissenberg polymers, *To be submitted to Journal of Fluid Mechanics.*
- 05/2022 **Drag reduction in turbulent pipe flows of realistic polymer solutions**, *Oral presentation at the* 6th *International conference on Turbulence and Interactions*, Procchio, Italy, 15-20 May 2022.
- 04/2022 **Drag reduction in turbulent pipe flows of realistic polymer solutions**, Oral presentation at the 14th Europen Fluid Mechanics Conference, Athens, 13-16 September 2022.
- 10/2021 Hybrid Eulerian-Lagrangian simulations of drag reducing polymers at high Weissenberg, Presented at poster Session at Multiscale simulations of complex materials, CECAM, 27/10/2022.

Education

- 2020 **PhD in Theoretical and Applied Mechanics**, *"Sapienza" University of Rome*, Research project: Turbulent flows of dilute polymer solutions.
- 2018 2020 Master in Aeronautical Engineering, "Sapienza" University of Rome, Graduation date: 26/10/20, 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: 07/11/20, 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.



Native Italian Level C1 English

CAE: Certificate in Advanced English (2014)