



# Davide Selvatici

## Curriculum Vitae

### Contact information

Address **Enschede, The Netherlands**  
Email **d.selvatici@utwente.nl**  
Mobile Phone **+393484121501**  
Place and Date of Birth **Como, Italy, June 11, 1997**

### Education and Experience

- 2022 - **PhD Candidate**, *Physics of Fluids Group, University of Twente*, Enschede, The Netherlands.  
○ My research focuses on the interaction between wind farms and the Atmospheric Boundary Layer. We use state-of-the-art Large Eddy Simulations (LES) designed for High-Performance Computing.  
○ Advisors: Adj. Prof. Richard J.A.M. Stevens, Prof. Detlef Lohse.
- 2019 - 2021 **Master of Science in Aeronautical Engineering**, *Politecnico di Milano*, Milan, Italy. Final mark: 110/110.  
○ Major in Aerodynamics.  
○ Final thesis: "Structural effects of curvature on near-wall turbulence". Advisors: Dr. Alessandro Chiarini, Prof. Maurizio Quadrio.
- 2016 - 2019 **Bachelor of Science in Aerospace Engineering**, *Politecnico di Milano*, Milan, Italy. Final mark: 102/110.

### Awards and Prizes

**Young Scientist Award**, 1st European Fluid Dynamics Conference, Aachen, Germany, September 2024.

### Publications

**Curvature effects on the structure of near-wall turbulence**, *D. Selvatici, M. Quadrio & A. Chiarini*, Journal of Fluid Mechanics, 2023.

In this work we analyse the influence of small-curvature changes in the near-wall structure of turbulence using the Anisotropic Generalized Kolmogorov Equations.

### Languages

Italian **Mother tongue**  
English **Professional level**  
French **Basic level**  
Dutch **Basic level**

*I am fluent in speaking, listening and writing*

*Basic knowledge*

*Basic knowledge*