



Daniele Massaro

Short Curriculum Vitae

Personal Information

Date of Birth *Nov 21th, 1994*

Nationality *Italian*

Current position

Sept. 2019 - Present **PhD student at KTH Royal Institute of Technology**

SimEx/FLOW Engineering Mechanics, KTH, Stockholm

Supervisors: Prof. P.Schattler and Dr. S.Rezaeiravesh.

The project aims to investigate the physics of incompressible turbulent flows using direct numerical simulations (DNS) with Adaptive Mesh Refinement (AMR). In this framework, we use error measurement techniques to dynamically build up a mesh that resolves the smallest spatial scales. This enables to perform DNS at high Reynolds number and in complex geometries with a significant computational saving. Performing accurate simulations with AMR, we carry on an in-depth study of turbulent flows that still are far to be completely understood.

Education

Mar. 2023 **Visiting Scholar**

The University of Manchester, Manchester, UK

Research in the application of Information Theory tools in wall-bounded turbulent flows to measure causal relations, under the supervision of Lect. S.Rezaeiravesh.

Nov. 2022 **Visiting Scholar**

Texas Tech University, Lubbock, Texas, USA

Research in large-scale coherent structures in wall-bounded flows at high Reynolds numbers, in Prof. F.Hussain's group.

Oct. 2016 - Apr. 2019 **Master of Science, Aeronautical Engineering**

Politecnico di Milano, Milan, Italy

Specialization in Aerodynamics with the thesis: 'Stability characteristics of wall-bounded flow with spanwise forcing'. Thesis supervisor: Prof. M.Quadrio.

Oct. 2013 – Sept. 2016 **Bachelor of Science, Aerospace Engineering**

Politecnico di Milano, Milan, Italy

Sept. 2008 – July. 2013 **High School Diploma**

Liceo Scientifico Statale Enrico Medi, Villafranca di Verona, Verona

Specialization in scientific P.N.I. (Piano Nazionale Informatica, 'National IT Program') which provided augmented lessons of maths, physics and computer science.

You are welcome to contact me if you would like to obtain my complete CV (dmassaro@kth.se).