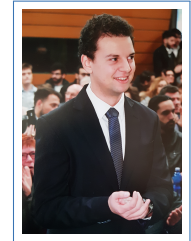


Stefano Pezzano

Curriculum Vitae

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Education and Training

- 10/2012 - **BSc in Aerospace Engineering**, *Politecnico di Torino*.
- 9/2015
 - Thesis: *Development and validation of a SGP4 orbit propagator*.
 - Final mark: 110/110, *Summa cum laude*.
- 10/2015 - **MSc in Aerospace Engineering**, *Politecnico di Torino*.
- 3/2018
 - Thesis: *Aeroelastic Modelling of a Wind Turbine Blade*. A Wall Modelled immersed boundary Large Eddy Simulation technique is studied and validated on Cartesian meshes. The method is then extended to Octree grids and the performance is evaluated using benchmark test cases. Finally, a model for aeroelastic simulations of wind turbine blades in a rotating frame of reference is proposed and some preliminary results are presented.
 - Final mark: 110/110, *Summa cum laude*.
- 9/2017 - **Internship**, *Inria*, Bordeaux, MEMPHIS team.
- 2/2018
 - Supervisor: Angelo Iollo
 - Numerical method for fluid dynamics and fluid structure interaction in the framework of the H2020 AEROGUST project. Study of an immersed boundary model for high Reynolds flows and application to aeroelastic simulations of wind turbine blades.
- 10/2018 - **Ph.D. in Applied Mathematics**, *Université Côte D'Azur*.
- Present
 - Supervisor: Régis Duvigneau
 - Isogeometric analysis for compressible flows with moving boundaries using Discontinuous Galerkin schemes.

Research experience

- 4/2017 - **Predoctoral Research Fellow**, *Inria*, Bordeaux, MEMPHIS team.
- 9/2018 Development of a 2nd order accurate immersed boundary scheme for incompressible Navier-Stokes equations. Numerical simulation of wind turbine blades, comparison with experimental data and model order reduction using proper orthogonal decomposition.
- 10/2018 - **Ph.D. Fellow**, *Inria*, Sophia-Antipolis, ACUMES team.
- Present Study and development of a Discontinuous Galerkin solver for compressible flows with moving boundaries, using a high-order geometry representation derived from Computer Aided Design.

Computer skills

Basic	Java, Fortran, MSC Patran/Nastran
Intermediate	LaTeX, UNIX derived OS, High-Performance Computing, CATIA
Advanced	MatLab, C, C++

Languages

Italian **Native**
English **Advanced**
French **Advanced**

Bilingual proficiency
Professional proficiency

Interests

- Tennis
- Weight training

- Electric guitar
- Hiking