Stefano Pezzano

Curriculum Vitae

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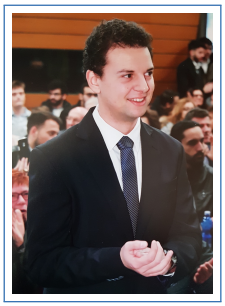

Aerospace engineer with 4 years of research experience in the development of numerical methods and models for fluid mechanics. Seeking to further develop my skills in an innovative industrial context.

Professional experience

10/2021 - Present — **Postdoctoral researcher**, *Cerfacs*, Toulouse.
- Involved in the development of the CODA solver (Onera, DLR and Airbus).
- Scale-resolved simulation of turbulent flows with Discontinuous Galerkin methods.
- Development of post/co-processing tools for LES computations.
- Application to jet noise prediction problems.

10/2018 - 9/2021 — **Ph.D. Fellow**, *Inria*, Sophia-Antipolis, ACUMES team.
- Development of a Discontinuous Galerkin solver with deformable domains.
- Implementation of a sliding mesh technique for rotating machinery.
- Optimization study of a morphing airfoil using Bayesian learning.

2020, 2021 — **Teaching Assistant**, *Polytech Nice Sophia*.
- Numerical Methods for PDE, part 2: Finite Elements

9/2017 - 9/2018 — **Intern, Predoctoral Researcher**, *Inria*, Bordeaux, MEMPHIS team.
- Improvement of a parallel Finite Volume solver for incompressible flows.
- Development of a Wall Modelled LES technique for immersed boundaries.
- Application to LES simulation of wind turbine blades.
- Implementation of fluid-structure coupling.

Education and Training

10/2018 - 9/2021 — **Ph.D. in Applied Mathematics**, *Université Côte D'Azur*.
- Supervisor: Régis Duvigneau
- Dissertation: *Isogeometric Discontinuous Galerkin method with time-dependent domains*

10/2015 - 3/2018 — **MSc in Aerospace Engineering**, *Politecnico di Torino*.
- Specialization in aerodynamics.
- Thesis: *Aeroelastic Modelling of a Wind Turbine Blade*.
- Final mark: 110/110, *Summa cum laude*.

10/2012 - 9/2015 — **BSc in Aerospace Engineering**, *Politecnico di Torino*.
- Thesis: *Development and validation of a SGP4 orbit propagator*.
- Final mark: 110/110, *Summa cum laude*.

Computer skills

Coding	C/C++, Python, Fortran, MatLab
HPC	MPI, Use of HPC clusters
Versioning/CI	Git, Gerrit
OS	UNIX based OS, Windows
Visualization	Paraview, Tecplot
CAD/CAE	CATIA, MSC Patran/Nastran

Soft skills

Written and oral communication
Problem solving and decision making
Critical thinking
Team working

Languages

Italian	**Native**
English	**Bilingual**
French	**Bilingual**

Interests and hobbies

- Tennis
- Weight training
- Electric guitar
- Hiking