Riccardo MILANI RESUME

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PhD, Mathematical Engineer

>>> Education	1	
since 2021	Postdoctoral researcher	CEREA - École des Ponts ParisTech
	 Sciences²⁰²⁴, the physics of sports. Archery: training support and performance optimization CFD simulations of arrow flights in real-life conditions, statistical analysis, computer vision 	
2017 - 2020	PhD Student in Applied Mathematics	École des Ponts ParisTech, INRIA, and EDF R&D
	 Compatible Discrete Operator schemes for the unsteady incompressible Navier-Stokes equations. Advisors: Ern Alexandre (ENPC, INRIA) and Bonelle Jérôme (EDF R&D) Peer-reviewed article: Milani, Bonelle, Ern; Artificial compressibility methods for the incompressible Navier-Stokes equations using lowest-order face-based schemes on polytopal meshes, 2021, CMAM, accepted 	
2013 - 2017	Cycle of <i>Polytechnicien</i> Engineer	École polytechnique
	Education cycle equivalent to BSc and MSpecialization: Applied Mathematics - PD	
2010 - 2017	BSc and MSc in Mathematical Engineering	Politecnico di Milano
	 Laurea Triennale and Magistrale in Mathematical Engineering. Specialization: Applied Mathematics & Computer Sciences Score: 110 and honors/110 (BSc and MSc). Awarded "Best freshman" (2010) after the results of the entry test and first semester exams 	

09/'16-02/'17 Research Internship, 6 months

EDF R&D, Chatou

- Development and numerical analysis of a 3D HHO method for anisotropic diffusion
- Integration within the industrial code Code_Saturne (C); parallelization by OpenMP

03-08/2015 Research Internship, 5 months

US ESI R&D, San Diego

- First steps into the development of a new method for a fast computation of the vibro-acoustic response of a system
- Validations against software simulations

08/2014 Summer Internship

VTB Bank, Irkutsk

- Foreign Exchange Control Group
- > Support in the preparation and final validation of files about international contracts, records management

Programming skills

- **▶ Good knowledge**: C/C++, OpenMP, MPI, LATEX, Unix systems, MATLAB, Git/SVN, python, Code_Saturne, shell scripting, Office
- ▶ Basic knowledge: Fortran, OpenCV, R, SALOME, FreeFem++, Java

Languages

> Italian: Native

Finglish: Fluent, FCE certificate, B2French: Fluent, TCF certificate, C1

Russian: Conversational level

Extracurricular activities

- Google FooBar Challenge invitation
- ▶ Head of a 40-student dormitory ('15)
- ▶ General-treasurer of AIM ('16)
- ▶ PhD-students representative for EDF-MFEE ('18-'20)
- ▶ Running (Paris marathon '19)

>>> Volunteering and other Interests

- Summer work camps (Kenya '10, '11; Rwanda '17')
- ▶ Active member of Smileland, which backs an orphans village in Congo
- Italian classes for refugees ('15)