Riccardo MILANI RESUME

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PhD, Mathematical Engineer

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>>> Education		
2017 - 2020	PhD 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, 2022, CMAM, 22(1), 133-154 	
2013 - 2017	Cycle of <i>Polytechnicien</i> Engineer	École polytechnique
	Education cycle equivalent to BSc aSpecialization: Applied Mathematic	
2010 - 2017	BSc and MSc in Mathematical Engine	eering Politecnico di Milano
>>> Experience	Mathematics & Computer Sciences Score: 110 and honors/110 (BSc and of the entry test and first semester ex	Mathematical Engineering. Specialization: Applied d MSc). Awarded "Best freshman" (2010) after the results ams
01/'21-04/'22	Postdoctoral researcher	CEREA - École des Ponts ParisTech
 Sciences²⁰²⁴, the physics of sports. Archery: training supp CFD simulations of arrow flights in real-life conditions, sta 		
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

> English: Fluent, FCE certificate, B2> French: 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)
- ▶ Member of Smileland, which backs an orphans village in Congo ('15-'22)
- Italian classes for refugees ('15)