# Riccardo MILANI RESUME

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## PhD, Mathematical Engineer

>>> Education	1	
since 2021	Postdoctoral researcher	CEREA - École des Ponts ParisTech
	<ul> <li>Sciences<sup>2024</sup>, the physics of sports. Archery: training support and performance optimization</li> <li>CFD simulations of arrow flights in real-life conditions, statistical analysis, computer vision</li> </ul>	
2017 - 2020	PhD Student in Applied Mathematics	École des Ponts ParisTech, INRIA, and EDF R&D
	equations. Advisors: Ern Alexandre (ENPC,  Peer-reviewed article: <i>Milani</i> , Bonelle, Er	
2013 - 2017	Cycle of <i>Polytechnicien</i> Engineer	École polytechnique
	<ul><li>Education cycle equivalent to BSc and M</li><li>Specialization: Applied Mathematics - PI</li></ul>	
2010 - 2017	BSc and MSc in Mathematical Engineering	Politecnico di Milano
	<ul> <li>Laurea Triennale and Magistrale in Mathematical Engineering. Specialization: Applied Mathematics &amp; Computer Sciences</li> <li>Score: 110 and honors/110 (BSc and MSc). Awarded "Best freshman" (2010) after the results of the entry test and first semester exams</li> </ul>	

#### 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

### 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

08/2014

- **▶ 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 Fluent, TCF certificate, C1 French:

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)