

Riccardo MILANI | RESUME

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PhD, Mathematical Engineer

»»» Education

- | | | |
|--|--|---|
| since 2021 | Postdoctoral researcher | CEREA - École des Ponts ParisTech |
| <ul style="list-style-type: none">» SCIENCES²⁰²⁴ - the physics of sports» Archery: Simulation of arrow flight under real-life conditions | | |
| 2017 - 2020 | PhD Student in Applied Mathematics | École des Ponts ParisTech, INRIA, EDF R&D |
| <ul style="list-style-type: none">» <i>Compatible Discrete Operator</i> schemes for the unsteady incompressible Navier–Stokes equations» Advisors: Ern Alexandre (ENPC, INRIA) and Bonelle Jérôme (EDF R&D) | | |
| 2015 - 2017 | MSc in Mathematical Engineering | Politecnico di Milano |
| <ul style="list-style-type: none">» <i>Laurea Magistrale</i> in Mathematical Engineering, specialization: Applied Mathematics & Computer Sciences» Score: 110 and honors/110 | | |
| 2013 - 2017 | Cycle of <i>Polytechnicien</i> Engineer | École polytechnique |
| <ul style="list-style-type: none">» Education cycle equivalent to BSc and MSc» Specialization: Applied Mathematics - PDEs | | |
| 2010 - 2015 | BSc in Mathematical Engineering | Politecnico di Milano |
| <ul style="list-style-type: none">» <i>Laurea Triennale</i> in Mathematical Engineering. Score: 110 and honors/110» Awarded "Best freshman" (2010) after the results of the entry test and first semester exams | | |

»»» Experience

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|---|--------------------------------------|-----------------------|
| 09/'16-02/'17 | Research Internship, 6 months | EDF R&D, Chatou |
| <ul style="list-style-type: none">» Development and numerical analysis of a 3D HHO method for anisotropic diffusion» Integration within the industrial code <i>Code_Saturne</i> (C); parallelization by OpenMP | | |
| 03-08/2015 | Research Internship, 5 months | US ESI R&D, San Diego |
| <ul style="list-style-type: none">» 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 | | |

»»» Programming skills

- » **Good knowledge:** C/C++, OpenMP, MPI, \LaTeX , Unix systems, MATLAB, Git/SVN, *Code_Saturne*, Office
- » **Basic knowledge:** Python, shell scripting, Fortran, FreeFem++, SALOME, Java, R

»»» Extracurricular activities

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

»»» Languages

- » **Italian:** Native
- » **English:** Fluent, FCE certificate, B2
- » **French:** Fluent, TCF certificate, C1
- » **Russian:** Conversational level

»»» 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)