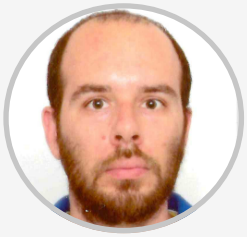
europass



Antonio Cervone

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RCiD: orcid.org/0000-0002-1985-7309 | **github:** www.github.com/capitalaslash |

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WORK EXPERIENCE

20/02/2023 – CURRENT Bologna, Italy
FIXED-TERM ASSISTANT PROFESSOR ALMA MATER STUDIORUM UNIVERSITY OF BOLOGNA

16/12/2012 – 20/02/2023 Bologna, Italy
RESEARCHER ENEA

Computational Fluid Dynamics (CFD) for Nuclear Reactor Safety, atmospheric dispersion of nuclear pollutants, HPC resource manager.

30/11/2010 – 15/12/2012 Milan, Italy
UNIVERSITY RESEARCH ASSISTANT POLITECNICO OF MILAN

Finite Element and Fluid Dynamics code development for geoscience, teaching support for numerical analysis and advanced programming for scientific applications.

30/09/2009 – 29/09/2010 Bologna, Italy
UNIVERSITY RESEARCH ASSISTANT UNIVERSITY OF BOLOGNA

Finite Elements and Fluid Dynamics for two-phase flow, teaching assistant for informatics and numerical analysis

EDUCATION AND TRAINING

31/12/2006 – 30/12/2009 Bologna, Italy
PH.D. IN ENERGY, NUCLEAR AND ENVIRONMENTAL CONTROL ENGINEERING DIENCA - University of Bologna

31/08/1999 – 25/10/2006 Bologna, Italy
MASTER DEGREE IN NUCLEAR ENGINEERING Univerisity of Bologna

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	A2	A2	A1	A1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

GNU/Linux | C++ programming | python programming | javascript programming | server administration | Microsoft Office

ADDITIONAL INFORMATION

PUBLICATIONS

A new projection method for Navier-Stokes equations by using Raviart-Thomas finite element – 2022

ASTEC - RAVEN coupling for uncertainty analysis of an ingress of coolant event in fusion plants – 2021

Simulation of TALL-3D Experimental Facility with a Multiscale and Multiphysics Computational Platform
– 2021

FEMuS-Platform: a Numerical Platform for Multiscale and Multiphysics Code Coupling – 2021

CFD simulation of turbulent flows over wire-wrapped nuclear reactor bundles using immersed boundary method
– 2020

Validation of a multiscale coupling algorithm by experimental tests in tall-3D facility – 2020

Atmospheric dry deposition processes of particles on urban and suburban surfaces: Modelling and validation works
– 2019

Dry deposition of particle on urban areas – 2019

Post-test simulations for the NACIE-UP benchmark by STH codes – 2019

Blind simulations of NACIE-UP experimental tests by STH codes – 2018

Dry deposition models for radionuclides dispersed in air: A new approach for deposition velocity evaluation schema
– 2017

Preliminary results on the coupling of a three-dimensional lead fast reactor model and a one-dimensional external loop
– 2014

Review of split and unsplit geometric advection algorithms – 2013

Simulations of large scale three-dimensional sedimentary basin dynamics through domain decomposition techniques
– 2012

An optimal constrained approach for divergence-free velocity interpolation and multilevel VOF method
– 2011

On the properties and limitations of the height function method in two-dimensional Cartesian geometry
– 2011

A FEM solver coupled to a multilevel VOF method for simulation of axisymmetric jets and to a front-tracking method for simulation of spreading droplets
– 2010

Simulation of axisymmetric jets with a finite element Navier-Stokes solver and a multilevel VOF approach

– 2010

A geometrical predictor-corrector advection scheme and its application to the volume fraction function

– 2009

A multilevel domain decomposition approach for studying coupled flow applications – 2009

Simulation of jets with a finite element Navier-Stokes solver and a multilevel VOF approach – 2009