

Salvatore Lovecchio

Curriculum Vitae

Education

- 2012 -present **PhD Student**, *Environmental and Energy Engineering Sciences*, University of Udine, Udine, Italy.
Advisor: Prof. Alfredo Soldati.
Title Thesis: "Dynamics of passive and active particles at the surface of a stratified/unstratified turbulent open channel flow"
Research field: Numerical simulation of turbulent multiphase/multicomponent flows.
Publications:
 - **S.Lovecchio**, C.Marchioli, A.Soldati, "Time persistence of floating particle clusters in free-surface turbulence", *Phys.Rev.E* **88**(2013): 033003;
 - **S.Lovecchio**, F.Zonta, A.Soldati, "Influence of thermal stratification on the surfacing and clustering of floaters in free surface turbulence", *Advances in Water Resources* **72** (2014);
 - **S.Lovecchio**, F.Zonta, A.Soldati, "Inverse energy cascade and flow topology in free surface turbulence", submitted (2014);
 - **S.Lovecchio**, A.Soldati, "Plankton surfacing forbidden by thermal stratification", in preparation.
- 2009-2011 **Master degree, Computational Physics**, *University of Udine, Udine, Italy*,
Grade:110/110 cum laude,
Advisor: Prof. Alfredo Soldati (University of Udine),
Co-advisor: Prof. Federico Toschi (University of Eindhoven),
Dott. Ing. Cristian Marchioli (University of Udine).
Title of thesis: "Direct numerical simulation of particle sedimentation and resuspension mechanisms in turbulent boundary layer"
- 2004-2009 **Bachelor degree, Physics**, *University of Bari, Bari, Italy*,
Grade:106/110 ,
Advisor: Prof. Franz Navach.
Title of thesis: "Recent developments in monolithic pixel Silicon detectors"
- 1999-2004 **High School, Liceo Scientifico P.N.I. Sante Simone (National Plan of Informatics)**, *Conversano, Bari, Italy*,
Grade:100/100 .

via Antonio Ligabue, 5 – 70014 Conversano (BA), Italy

☎ (+39) 345 2683669

✉ lovecchio.salvo@gmail.com - salvatore.lovecchio@uniud.it

🌐 <http://158.110.32.35/PEOPLE/Lovecchio.html>

International experiences

Oct.2013-Jul 2014 **PhD Visitor**, *Institut de Mècanique des Fluides de Toulouse, Toulouse, France*,
Advisor: Prof. Eric Climent.

National experiences

Mar 2009-May 2009 **Internship at INFN**, *National Institute of Nuclear Physics, Bari, Italy*,
Title of project: "Tests for the characterization and choice of modules forming the silicon pixel detector of ALICE experiment at CERN".

Awards and Honours

29/01/2014 **Best poster award**, *awarded by the University of Udine*.

2011 **HPC-Europa fellowship**, *Faculty of Applied Physics, Department: Mesoscopic Transport Phenomena, Technische Universiteit Eindhoven, Eindhoven, NL*, Title of project: "Direct Numerical Simulation of particle sedimentation and resuspension mechanisms in turbulent boundary layer".

Languages

Italian	Mother tongue	
English	Professional Level, B2	<i>Con conversationally fluent</i>
French	Basic	<i>Basic knowledge</i>

Technical skills and competences

Team spirit, good communication

Problem-solving attitude

End-oriented work capacity

Good ability in developing mathematical, physics and computational models to study real problems

Computer skills

Operative system and environments

Windows, Linux

Programming languages

Basic	C++, Java, Html, Matlab, Wolfram Mathematica
Advanced	C, Fortran

General tools and package

Gnuplot, L^AT_EX, MS Office, OpenOffice, Beamer

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