



# Luca Scarbolo

## *Curriculum Vitae*

### Education

2010 - Present **PhD Student, University of Udine, Udine, ITALY**

Advisor: Prof. Alfredo Soldati

Research field: Numerical simulation of turbulent multiphase/multicomponent flows.

Publications:

- L. Scarbolo et. al, *Turbulence modulation through the interface of a large deformable droplet*, J. of Turb., (submitted);
- L. Scarbolo et. al, *Unified framework for a side-by-side comparison of different multicomponent algorithms: lattice Boltzmann vs. phase field model*, J. comp. Phys., 234 (2013);
- L. Scarbolo et. al, *Phase-field model of droplet breakup in turbulence*, Atti XX Congresso AIMETA, ISBN 978-88-906340-1-7.

Activities:

- 10 referred conference contributions accepted;
- 7 international conferences attended as speaker;
- 8 international advanced courses attended.

2008 - 2010 **Master Degree, Mechanical Engineering, University of Udine, Udine, ITALY**

Grade: 110/110 cum laude

Advisor: Prof. Alfredo Soldati, *University of Udine, IT*

Co-advisor: Dott. Dafne Molin, *University of Udine, IT*

Thesis title: Numerical analysis of phase separating polymer blends

2004 - 2007 **Bachelor Degree, Mechanical Engineering, University of Udine, Udine, ITALY**

Grade: 110/110 cum laude

Advisor: Prof. Alfredo Soldati, *University of Udine, IT*

Co-advisor: Prof. Yannis Hardalupas, *Imperial College of London, UK*

Thesis title: Particle pair dispersion in turbulent pipe flow

1999 – 2004 **High School, Technical Institute A. Malignani, Udine, ITALY**

Grade: 97/100

Major: Aeronautics

*Birth: 25 Aug 1985, Palmanova, Udine, ITALY – Italian Citizenship*

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## International experiences

- Oct 2012 – May 2013 **PhD Visitor**, *City College of New York, New York, NY*  
Advisor: Prof. Sanjoy Banerjee
- Oct 2010 – Jan 2011 **HPC Europa 2 Visitor**, *Technische Universiteit Eindhoven, Eindhoven, NL*  
Advisor: Prof. Federico Toschi
- Oct 2007 – Jan 2008 **Erasmus Student**, *Imperial College of London, London, UK*  
Advisor: Prof. Yannis Hardalupas

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## Working experiences

- Mar 2010 – Jun 2013 **Technical consulting**  
Employer: CIFI – Center for Fluid Dynamics and Hydraulics, *Udine, IT*
- M. Campolo, L. Scarbolo, A. Soldati, *Smoke collection efficiency of canopy hoods during charging transient in Electric Arc Furnace: benchmark evaluation of different design alternatives*, Technical report for: CVS MAKINA INSAAT SAN. Ve TIC.A.S. (2013)
  - M. Campolo, L. Scarbolo, A. Soldati, *Analysis of iron coils cooling*, Technical report for: CDR – Danieli Research and Development. (2010)
- Mar 2012 – Jul 2012 **Adjunct Instructor**  
Employer: Embry – Riddle Aeronautical University, *Campus of Aviano, Udine, IT*
- Jun - Sep 2003 to Jun - Sep 2008 **Summer worker as Mechanic**  
Employer: SO.RI.MEC. s.n.c., *Pavia di Udine, Udine, IT*

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## Languages

- Italian Mother language  
English Professional level  
B2 (2004) - TOEFL 89/120 (2012)

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## References

- Prof. Alfredo Soldati**, University of Udine, [soldati@uniud.it](mailto:soldati@uniud.it)  
**Prof. Federico Toschi**, Technische Universiteit Eindhoven, [f.toschi@tue.nl](mailto:f.toschi@tue.nl)

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## Skills

### Computer Skills

- Advanced Fortran, Linux, Windows®, Latex, MS Office®, StarCD®  
Intermediate C++, Matlab®, Autocad®, Solid Edge®  
Basic Html, Adobe Illustrator®, ANSYS®, Photoshop®, Solid Works®

### Other Skills

- Comfortable with manual mechanical applications;
- basic machine tools usage and welding;

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## Interests

- Reading;
- movies watching;
- travelling;
- Blood Donor since 2005.
- mountain biking;
- president of no-profit association O.R.C.A. - [www.orcaonline.it](http://www.orcaonline.it);

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