

Europass Curriculum Vitae



Personal information

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Nationality Italian
Date of birth 8th January 1989

Desired employment / Occupational field

From a general point of view fluid dynamic has been the main important, and more interesting, subject of my academic path; so I developed quite a good knowledge of the typical problems of this science. In particular, during the first year of Phd, I've deepened the knowledge of the mathematical problems related to the development of a proper software.

Work experience

October 2013-today Phd student in the course "Mathematical Analysis Modeling and Application" at SISSA, International School for Advanced Studies in Trieste

Education and training

Dates	September 2010 – July 2013
Title of qualification awarded	Master degree in Aeronautical Engineering
Evaluation	110/110
Name and type of organisation providing education and training	Politecnico di Milano
Dates	September 2007 - September 2010
Title of qualification awarded	Bachelor degree in Aerospace Engineering
Evaluation	108/110
Dates	September 2002 - July 2007
Title of qualification awarded	High School scientific diploma
Evaluation	100/100 cum laude

Self-assessment

European level (*)

English

French

Understanding		Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production	
	C1		C1		C1		C1
	A1		A2		A1		A1

English certification

2008 TOEFL IBT with the following result 103 level C2

Social skills and competences

Through both of my degrees I've been asked to work in a team. In fact my thesis develops some topics highlighted in the project OpenShip. I've worked in a team at SISSA, with professor Antonio DeSimone, assistant professor Luca Heltai, Dr. Gianluigi Rozza and Dr. Andrea Mola, to develop a software to predict the wave pattern around a moving body in water. Additionally I've been often asked to work in a team during my bachelor and master degree, for example in the numerical study of the aerodynamic characteristics of an airfoil with some simple methods.

Organisational skills and competences

I've acquired a sufficient knowledge of project management and of economics principles in a company attending two courses focused about these principles. The valuation have been 30/30 cum laude and 27/30

Technical skills and competences

During the master degree I've acquired a good knowledge of fluid dynamics. Especially I've been taught in aerodynamics of compressible and incompressible flows.
During my Phd work at SISSA, International School for Advanced Studies, I've improved my knowledge of mathematics, focusing in particular on the numerical analysis in the development of a software.
In my master degree thesis these studies have led to the creation of software to predict the wave resistance of a moving body.
I have attended a course of experimental fluid dynamics during which I've learnt the principles of many experimental technique, for example I have developed a code, in Matlab environment, to perform a velocity measure through a Particle Image Velocimetry.
I have learnt the principles of structural engineering focused on the usage of metal structures in aeronautical engineering, and in the project of a wind turbine.
I have learnt also the principles of environmental aerodynamics, especially linked with the project of structures in a wind field or of the project of a wind turbine.

Computer skills and competences

I've performed my master degree thesis at SISSA, International School for Advanced Studies, where I've developed a software in the C++ programming language acquiring a good knowledge of it.
During the Bachelor degree I've learnt the usage of Matlab since I've attended two course of scientific computations, with the valuation of 29/30 and 30/30 cum laude. I've perfected this knowledge during the Master degree since almost all the computation were made with the usage of this software.
I've acquired a sufficient knowledge of the C programming attending a course in this programming language with the final valuation of 30/30 cum laude.
I have acquired a good knowledge of Office programs, during my master degree I learned the LaTeX editing language and I wrote my master degree thesis with it.
During the Bachelor degree I've learnt the principles of technical drawing and of CAD software especially of SolidEdge in its version v19.
In my Phd at SISSA I've deepened my knowledge of the mathematical aspects of scientific calculations, working together with assistant professor Luca Heltai and Doctor Gianluigi Rozza.

Other skills and competences

In the last year I've learned the basis of sailing. These experience has taught me better the meaning of teamwork and teambuilding, in fact on the boat I sailed cooperation is essential to reach any goals.

Additional information

At the time being I'm working with professor Antonio DeSimone, assistant professor Luca Heltai and Doctor Gianluigi Rozza in the developing of my Phd thesis at SISSA.
Professor Luca Formaggia, from Laboratory of Modeling and Scientific Computing of Politecnico di Milano has been the main advisor of my master degree thesis, while Doctor Andrea Mola, from SISSA, has been the co-advisor of such a thesis.