

# Curriculum Vitae

## PERSONAL INFORMATION

Filippo Valle

Via Bornenghi 23/a, 10080 Rivara (Italy)

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[filippo.valle@edu.unito.it](mailto:filippo.valle@edu.unito.it)

<http://fvalle1.github.io/>

Twitter @Filippo\_Valle | Skype filippo.valle

Sex Male | Date of birth 09/04/1995 | Nationality Italian

## EDUCATION AND TRAINING

09/2014–ongoing

**Bachelor's degree in Physics**

EQF level 6

Università degli studi, Turin (Italy)

<http://www.unito.it/>

09/2009–07/2014

**Diploma di liceo scientifico 90/100**

EQF level 4

Istituto di istruzione superiore "Aldo Moro", Riva di Canavese (Italy)

<http://istitutomoro.it>

Course "Piano Nazionale dell'Informatica" focused on the study of information technology and on physics' laboratory.

07/2012

**Study experience**

Studytours

Lessons at Pitzer College

I have been a fortnight in Los Angeles (California) in order to improve my English.

## WORK EXPERIENCE

09/2013

**Internship**

Swiss National Supercomputing Centre, Lugano (Swiss)

<http://cscs.ch/>

Two weeks during whom I was able to analyse cosmic rays using Monte Carlo's methods. I wrote code in Fortran and OpenMP.

[Related document: Cscs.pdf](#)

## PERSONAL SKILLS

Mother tongue

Italian

Other language

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
Cambridge University's FIRST Certificate (B2) Cambridge University's PET with Merit Certificate (B1)				

[Related document: First.pdf](#)

Morse code

I have a basic Knowledge of morse code

Organisational/managerial skills

-I attended a course about "Lean Management" by Leannovator (<http://www.leannovator.com/>)

-Member of Rivara's band directive

# Curriculum Vitae

Filippo Valle

- Computer skills**
- European Computer Driving License (Average mark: 340/360)
  - I write code with Mathematica and passed the Wolfram Certification Exam
  - I use to write reports using markup language LaTeX (know how to create slide with Beamer package)
  - I use root to analyse data during my university's courses
  - Basic knowledge of the following programming languages: C++, Fortran, Makefile, R, Pascal and Visual Basic
  - Reasonable knowledge of CMS Wordpress (I contribute to develop <http://istitutomoro.it>)
  - Good command of Office suite (both Microsoft Office and OpenOffice) and used to work with: Macintosh, Linux and Microsoft Windows

**Related documents:** ECDL.pdf, Mathematica.pdf

- Other Skills**
- Blogger (<http://fili007.altervista.org>)
  - I can solve Rubik's cube
  - Very basic knowledge of morse code
  - Help high school students with their homework about math and physics

- Driving License** -B

## ADDITIONAL INFORMATION

- I took part in Carnival of Physics (<http://camevaledellafisica.blogspot.it/2014/11/dal-liceo-alla-facolta-di-fisica.html>)
- Trumpet player
- Sometimes I help running local library
- Love swimming and walking/trekking

- Projects** High school thesis "Analisi di raggi cosmici mediante supercomputer"

## UNIVERSITY'S EXAMS

### First Year

Exam	Date*	Mark
Tecniche Informatiche per la Fisica	29/12/2014	100/100
Analisi I	03/12/2014	27/30
Geometria e Algebra Lineare I	05/12/2014	23/30
Analisi II	27/03/2015	27/30
Meccanica	15/04/2015	28/30
Esperimentazioni I	30/06/2015	30/30
Onde, Fluidi e Termodinamica	03/07/2015	30 e Lode/30
Analisi III	21/12/2015	27/30
Elettricit� e magnetismo	12/01/2016	30/30
Chimica	18/01/2016	24/30

\*All dates have to be intended in format dd/mm/yyyy

### RELATED DOCUMENTS

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Please find attached the following documents:

- Letter by Swiss National Supercomputing Centre
- Cambridge First certificate in English
- European Computer Driving License
- Wolfram Training Mathematica certificate
- Certificate by Leannovator

#### Privacy

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.



## CSCS



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

CSCS

Swiss National Supercomputing Centre



## To whom it may concern

Mr Filippo Valle, born on April 9<sup>th</sup>, 1995, completed a two week internship as a guest at CSCS, the Swiss National Supercomputing Centre, from 2<sup>nd</sup> September 2013 to 13<sup>th</sup> September 2013.

During the above period Filippo worked on the following projects:

**Analisi di raggi cosmici mediante un modello computazionale**

The project concerned the modelling, using a computational Monte Carlo method, of the cosmic ray flux impacting the roof of a building at Turin University. The cosmic ray data were previously collected by Filippo during the *"Tre mattine all'università"* workshop organized by the Department of Physics – Turin University. Thus this computational work effectively complemented this experimental experience making possible for Filippo to explore in real life two pillars of the scientific method: experiment and simulation.

In detail, his work at CSCS covered the following steps:

- Study of the basis of Monte Carlo method, the FORTRAN programming language, and shared memory parallelization methods (OpenMP).
- Creation and refinement of a realistic model of the cosmic ray flux covering atmospheric absorption and mountains shielding effects.
- Implementation of the above model on massively parallel multi-core platforms available at our centre using FORTRAN and OpenMP.
- Parallel run of the model and tuning of its parameters to reproduce as faithfully as possible the actual flux of cosmic rays previously collected.
- Study of the R statistical language and its use to visualize simulation results.
- Study of the LaTeX typographic language and its use to compose the final internship report.

During his stay, despite the short duration of the internship, Filippo has exploited the available time to acquire a wide range of abilities in the computational physics area.

Filippo collaborated intensively with CSCS specialists in a productive fashion, and, using multi-threading techniques, was able to achieve good code performance.

As one would expect from a guest, Filippo was highly independent in his work. He asked questions when in need of technical information, but then continued on his own. His technical knowledge and analytical thinking were much appreciated by his colleagues. Filippo displayed

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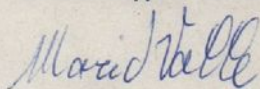


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the ability to acquire new skills and assimilate new information in a short time. At the same time, Filippo maintained excellent relationships with his colleagues.

We have known Filippo as a polite and friendly team player, whom we can recommend to future employers for a similar role.

We wish Filippo all the best in his professional and private endeavours.



Mario Valle  
Computational Scientist



Laura Iosa  
HR Specialist

Lugano, 24 February 2014

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First



## ECDL



**ECDL**  
European Computer  
Driving Licence  
**Certificato ECDL**  
*ECDL Certificate*

Si certifica che:  
*This is to certify that:*

**FILIPPO VALLE**  
Nata/o il 09/04/1995 a CUORGNE'

ha superato con successo tutti gli esami necessari al conseguimento del  
**Certificato ECDL**  
*has successfully passed all modules required for the granting of the ECDL*

Il Presidente AICA  
AICA President

 data: 10/04/2013

N° IT 1851446

 **AICA**  
Associazione Italiana per l'Informatica  
ed il Calcolo Automatico

 **ECDL**  
Foundation

Il presente certificato se stampato, è una rappresentazione del documento elettronico firmato digitalmente ai sensi della normativa vigente.

## Mathematica

*Filippo Valle*

CERTIFIED WOLFRAM TECHNOLOGY ASSOCIATE

*Mathematica Student Level*

December 2014

*Jamie Peterson*

Jamie Peterson  
Technical Programs Manager

Wolfram Training



WOLFRAM TRAINING CERTIFICATION PROGRAM



## Lean Management

