

Curriculum Vitae

PERSONAL INFORMATION

Filippo Valle



📍 Via Bornenghi 23/a, 10080 Rivara (Italy)

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✉ filippo.valle@edu.unito.it

🔗 <http://fvalle1.github.io/>

💬 Twitter @Filippo_Valle | Skype filippo.valle

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

EDUCATION AND TRAINING

- | | | |
|-----------------|--|-------------|
| 09/2017–present | Master degree in Physics of Complex Systems
Università degli Studi, Turin (Italy)
http://www.unito.it/

Thesis: "Network analysis on TCGA database" | EQF level 7 |
| 09/2014–07/2017 | Bachelor's degree in Physics 109/110
Università degli Studi, Turin (Italy)
http://www.unito.it/

Thesis: "A new tool to monitor RPC chambers of the muon trigger at CERN's ALICE experiment" | EQF level 6 |
| 09/2009–07/2014 | Diploma di liceo scientifico 90/100
Istituto di istruzione superiore "Aldo Moro", Rivarolo Canavese (Italy)
http://istitutomoro.it

Course "Piano Nazionale dell'Informatica" focused on the study of information technology and on physics' laboratory. | EQF level 4 |

EDUCATION AND TRAINING

- | | |
|---------|---|
| 04/2018 | Trento Innsbruck Quantum Information Tour
University of Trento, Institute for Quantum Optics and Quantum Information IQOQI
Visits at laboratories and lectures |
| 07/2012 | Study experience
Studytours
English lessons at Pitzer College, California, USA
I have been a fortnight in Los Angeles in order to practise with English. |

WORK EXPERIENCE

- 08/2017-ongoing **Developer**
 Glifico
<https://www.glifico.com/>
 I'm developing the platform of the startup called Glifico.
 The platform will be useful to translators and agencies to get in touch and exchange jobs.
- 03/2018 **Lecturer's assistant**
 Inverted CERN School of Computing, CERN, Geneva, Switzerland
<https://www.csc.web.cern.ch/>
 I attended iCSC both as student and as assistant professor of lectures and exercises about openMP and High Performance Computing.
- 01/2017- present **Tutor**
 Università degli Studi, Turin (Italy)
https://fisica.campusnet.unito.it/do/corsi.pl/Show?_id=1ebt
 I was an assistant during second year laboratory course *Esperimentazioni II*.
- 03/2017- 06/2017 **Tutor**
 Università degli Studi, Turin (Italy)
https://fisica.campusnet.unito.it/do/storicocorsi.pl/Show?_id=e93c_1617
 I was an assistant during exercises for basic C course: *Introduzione alla Programmazione*
- 09/2013 **Internship**
 Swiss National Supercomputing Centre, Lugano (Swiss)
<https://cscs.ch/>
 Two weeks intern to develop a tool using OpenMP to simulate cosmic rays with MonteCarlo's methods.

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

Organisational/managerial skills

- I attended a course about "Lean Management" by Leannovator (<http://www.leannovator.com/>)
- Member of Rivara's philharmonic directory

Computer skills

- I have a good knowledge of C++, openMP and Root
- I have developed code using Python (numpy, sklearn, matplotlib, pandas, networkx)
- I use to write reports using markup language LaTeX
- Web development: I contribute to develop <https://istitutomoro.it> and <https://glifico.com>

- Knowledge of AngularJS and jQuery
- Reasonable knowledge of CMS Wordpress, HTML, CSS
- I write code with Mathematica and passed the Wolfram Certification Exam
- European Computer Driving License (Average mark: 340/360)
- Of course I can use Office suite
- Let my GitHub account talk for me: <https://github.com/fvalle1>

Related documents: ECDL.pdf, Mathematica.pdf

- Other Skills
- I can solve Rubik's cube
 - Help high school students with their homework about math and physics
 - I lectured at Uni3 (Università della terza età) in march 2018.

- Driving License
- B
- I have no problem working anywhere

ADDITIONAL INFORMATION

- I took part in Carnival of Physics (<http://www.carnevaledellafisica.it/2014/11/dal-liceo-alla-facolta-di-fisica.html>)
- Trumpet player
- Sometimes I help running local library
- Love swimming, trekking and skiing
- I am passionate in astrophotography

- Projects
- Bachelor Thesis "Metodo di monitoraggio delle camere RPC del muon trigger dell'esperimento ALICE al CERN", slides at http://www.infn.it/thesis/thesis_dettaglio.php?tid=12008
- High school thesis "Analisi di raggi cosmici mediante supercomputer" (<https://www.slideshare.net/FilippoValle2/tesina-analisi-di-raggi-cosmici-e-supercomputer>)

RELATED DOCUMENTS

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.

Filippo Valle

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 9th, 1995, completed a two week internship as a guest at CSCS, the Swiss National Supercomputing Centre, from 2nd September 2013 to 13th 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

CSCS
Via Trevano 131
CH – 6900 Lugano

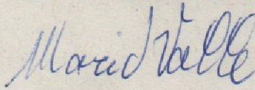
direct : +41 91 610 82 11
fax: +41 91 610 82 09
email: info@cscs.ch

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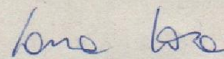
the ability to acquire new skills and assimilate new information in a short time. At the same time, Filippo maintained excellent relationships with his colleagues.

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

WolframTraining



WOLFRAM TRAINING CERTIFICATION PROGRAM

Lean Management

