

Filippo Valle

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WORK EXPERIENCE

CTO

Elemento [07/2022 – Current]

City: Cuneo

Country: Italy

Developer

Glifico [08/2017 – 31/12/2020]

- <https://glifico.com>

- developing the whole platform both the front-end using AngularJS and HTML and the backend with PHP, Postgres and Docker
- support costumers

Tutor

University of Turin [01/2017 – 06/2019]

Address: Turin (Italy) - https://fisica.campusnet.unito.it/do/corsi.pl/Show?_id=1ebt

- assist professors during the set up of the experiments
- assist students during laboratory sessions
- assist students on data analysis using Root
- assist students during hands on session of C++

Internship

Swiss National Supercomputing Centre [09/2013]

Address: Lugano (Switzerland) - <https://cscs.ch>

- developing model of cosmic rays' flux using parallel computing architectures

EDUCATION AND TRAINING

PhD in Complex Systems for Life Sciences

University of Turin [11/2019 – Current]

Address: Turin (Italy)

https://dott-scsv.campusnet.unito.it/do/studenti.pl/Show?_id=795411#profilo

Level in EQF: EQF level 8

- Complex Systems
- Data Mining
- Network's theory

Master degree in Physics of Complex Systems

University of Turin [09/2017 – 10/2019]

Address: Turin (Italy)

Level in EQF: EQF level 7

Thesis: A topic model approach reveals hidden structures in datasets of healthy and cancer tissues. Supervisors: M. Caselle and M. Osella.
Mark 110/110 cum laude and mention

Bachelor degree in Physics

University of Turin [09/2014 – 07/2017]

Address: Turin (Italy)

Level in EQF: EQF level 6

Thesis about developing a new method to monitor detectors at ALICE's CERN experiment. Supervisor: E. Vercellin and G. Fronzé.

www.infn.it/thesis/

Mark: 109/110

Summer study experience

Pitzer college [06/2012]

Address: Los Angeles (United States)

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DIGITAL SKILLS

My Digital Skills

Machine Learning

Natural Language Processing / graph-tool / TensorFlow

Visualization

Affinity Designer / plotly / matplotlib

Version Control Systems

git / GitHub / GitLab

Systems

Docker / Ubuntu / Visual Studio Code / C++

Sharing Software

Webex / Google Drive

Office

Apple Office (Pages Numbers Keynote) / Libreoffice

PUBLICATIONS

Emergent Statistical Laws in Single-Cell Transcriptomic Data

[2021]

<https://doi.org/10.1101/2021.06.16.448706>

nsbm

[2021]

<https://zenodo.org/record/6120683>

A Topic Modeling Analysis of TCGA Breast and Lung Cancer Transcriptomic Data

[2020]

<https://doi.org/10.3390/cancers12123799>

CONFERENCES AND SEMINARS

SMEEB

[Venice, 21/06/2021 – 24/06/2021]

I presented my work at the international conference on Stochastic Models and Experiments in Ecology and Biology

<https://archive.is/A6Qdi>

iCSC

[Geneve]

I attended the inverted Cern School of Computing and help during C++ openMP hands-on session

ORGANISATIONAL SKILLS

Group Work

Work under pressure

I published on special-issues with strict deadlines

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- contact skill with younger students gained during my tutor position at university and assisting high school students at home

Blogging

I maintain a [Medium page](#) writing articles about my interests and many on them appeared on the famous page [Towards Data Science](#)

JOB-RELATED SKILLS

Job-related skills

- C++
- good command of software version control systems as git
- python, tensorflow, graph-tool
- docker

OTHER SKILLS

Other skills

- trumpet player
- learned how to solve Rubik's cube
- mountainerring: love trekking and skiing
- I am active in the open source community: especially on [GitHub](#)
- I wrote an app to [follow](#) the COVID-19 pandemic in Italy
- I pass the A1/A3 test to drive UAS (drones)

PRESENTATIONS

Presentations

Lesson at the local [Università della terza età](#) about the physics and the universe

I hereby authorize the use of my personal data in accordance to the art 3 Dlgs 196 of 30 June 2003 and GDPR 679/16 - "European regulation on the protection of personal data"

Alessandria, 25/10/2022



Filippo Valle