# Filippo Valle

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https://fvalle.online

## OVERVIEW

PhD student in Complex Systems for Life Sciences, currently working on network's theory applied to the study of cancer

## EDUCATION

**Ph.D. in Complex Systems for Life Sciences** 2019-present
*University of Turin*

Currently studying network's theory and data mining applied to cancer datasets.
I attended several courses in-site and online (e.g. Coursera) on Machine learning and related fields.

**Master's degree in Physics of Complex Systems** 2017-2019
*University of Turin*

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

**Bachelor degree in Physics** 2014-2017
*University of Turin*

"A new method to monitor RPC at ALICE experiment" 109/110.
Supervisors: E. Vercellin and G. Fronzé

## PROFESSIONAL APPOINTMENTS

**Developer** 2017-2020
*Glifico, https://glifico.com*

- Developing a new platform to help translators and agencies

**Internship** 2012
*Swiss National Supercomputing Centre*

- Two weeks internship simulating cosmic rays flow using MonteCarlo techniques

## OTHER EXPERIENCES

- 2017-2019: **Esperimentazioni II**
  Physics Laboratory II Assistant in laboratory and during data analysis
- Spring 2017: **Introduzione alla programmazione**
  Introduction to programming Assistant during C++ exercices sessions

## SEMINARS AND SCHOOLS

3. Emergent Laws in Single Cell, Stochastic Models and Experiments in Ecology and Biology, Venice June 21

2. Un viaggio nel cosmo, Università della Terza Età, Rivara March 18

1. inverted CERN School of Computing, www.csc.web.cern.ch
School of High Performance Calculus, CERN March 17

## PUBLICATIONS

4. M. L. Segura; et al. A 3D transcriptomics atlas of the mouse nose sheds light on the anatomical logic of smell
, "https://doi.org/10.1016/j.celrep.2022.110547", *Cell Reports* , (Cell).

3. Valle, F.; Osella, M.; Caselle, M. A Multiomics topic modeling for Breast cancer classification., "https://doi.org/10.3390/cancers14051150", *Cancers* **14**, 1150 (MDPI).

2. Valle, F.; Lazzardi, S; et al. Emergent Statistical Laws in Single-Cell Transcriptomic Data.
, "https://doi.org/10.1101/2021.06.16.448706", *BioRxiv* , ().

1. Valle, F.; Osella, M.; Caselle, M. A Topic Modeling Analysis of TCGA Breast and Lung Cancer Transcriptomic Data., "https://doi.org/10.3390/cancers12123799", *Cancers* **12**, 3799 (MDPI).

## PRIVACY

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