

Valentina Guarino

Curriculum Vitæ

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PhD student at IFOM-ETS in the Lab "Statistical Physics of Cells and Genome" of Prof. Marco Cosentino Lagomarsino (started: Feb 2024). I am interested in understanding the dynamics of drug-tolerant persister cells as well as the features related to G1/G0 arrested cells.

Education

2023 **MSc in Physics** at University of Milan, with grade 110/110.

Thesis: "*Unsupervised multimodal clustering methods for patients subtypes discovery.*"

2019 **BSc in Physics** at University of Milano-Bicocca

Thesis: "*Role of T-cells in autoimmune diseases: simulations with COPASI. Applications of mathematical models for studying autoimmunities.*"

2015 **High School leaving qualification in classical studies** at Liceo Classico "Ernesto Cairoli" Varese

Skills and Qualifications

Computer science skills

- Programming languages: **MatLab** (intermediate), **C**, **C++**, **Python**, **R** (proficient).
- Advanced knowledge of OS such as **Linux** (proficient), **iOS** and **Windows** (expert).

- Advanced knowledge of standard **Microsoft Office** software (expert).

Languages

Mother tongue: Italian

Other language: English. Understanding level: C1. Writing level: B2. Speaking level: B2.

Work experience

2023 Bioinformatician fellow at National Cancer Institute, Milan. Research focused on analysis of multimodal omics data.

References

Guarino, V. e. a. Intrinsic-dimension analysis for guiding dimensionality reduction in multi-omics data. In *16th International Joint Conference on Biomedical Engineering Systems and Technologies - Volume 3: BIOINFORMATICS* (2023), pp. 243–251.

Varese, December 9, 2024

The undersigned:

