LUCA MILAZZO

DATA SCIENTIST

CONTACT

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Nova Milanese (MB) - Italy

Lausanne - Switzerland

www.lucamilazzo.it

Luca Milazzo

SKILLS

- Data analysis
- Computational Biology
- Bioinformatics
- Computer Science
- Machine Learning and Deep L.
- Software engineering

SOFT SKILLS

- Effective team collaboration
- Fast and continuous learner
- Effective prioritization skills
- Structured problem solving

LANGUAGES

- Italian
- English : Cambridge C1 (2024)

WORK EXPERIENCE

École polytechnique fédérale de Lausanne 09.2024 - PRESENT

PhD student candidate

- Phd student at the Laboratory of Computational Systems Biotechnology (LCSB - Chemistry and chemical engineering)
- Genome scale metabolic models (Human cancer)

Ministero dell'Istruzione e del Merito 03.2024 - 08.2024

Eletronics and telecommunications

- Teacher at the Istituto di Istruzione Superiore Luigi Galvani - Milano

PROJECTS

Google Summer of Code: National Resource For Network Biology 04.2024 - 08.2024

Cobraxy: Marea4Galaxy and COBRApy

Reaction fluxes enrichment analysis and COBRA modeling

EDUCATION

M.Sc. in Data science 2022-2024

- University of Milano-Bicocca (UniMiB)
- Högskolan i Skövde (Sweden) - Erasmus studies

Thesis : Leveraging high-throughput data and unsupervised learning to characterize cancer metabolic heterogeneity (110/110 Cum Laude)

B.Sc. in Computer Science 2018-2022

University of Milano-Bicocca (UniMiB)

Thesis : Sampling strategies to tackle the False Discovery Rate in metabolic model (107/110)

PUBLICATIONS

COBRAxy: Constraint-based metabolic modelling in Galaxy
Under review by Oxford Bioinformatics
Lapi, F., Milazzo, L., et al.(2025)

Adjusting for false discoveries in constraint- and sampling-based differential metabolic flux analysis.
Journal of Biomedical Informatics
Galuzzi, B.G., Milazzo, L., Damiani, C.(2024)
DOI: 10.1016/j.jbi.2024.104597

Best Practices in Flux Sampling of Constrained-Based Models
Machine Learning, Optimization, and Data Science (LOD)
Galuzzi, B.G., Milazzo, L., Damiani, C.(2022)
DOI: 10.1007/978-3-031-25891-6_18