

ALESSANDRO LUSSANA

PREDOCTORAL FELLOW @ EUROPEAN BIOINFORMATICS INSTITUTE (EMBL-EBI)

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ABOUT ME

Technical Skills Python, R, C++, SQLite, Linux, Awk, Sed, Git, Snakemake, Nextflow, Slurm, Docker, Singularity
Languages Italian (native), English (C1 CEFR level)
Art Technology Inkscape, GIMP
Interests Cell Signalling, Mathematical Modelling, Precision Medicine, DIY Robotics, Electric Guitar, Judo

WORK EXPERIENCE

European Bioinformatics Institute (EMBL-EBI)

Predocutorial Fellow Wellcome Genome Campus, Hinxton, UK (Oct 2021 - present)

- Investigating context-dependent cell signalling and context-dependent gene essentiality
- Supervisor: Dr. Evangelia Petsalaki

IRCCS San Raffaele Scientific Institute

Research Fellow San Raffaele Hospital, Milan, Italy (Oct 2020 - Jun 2021)

- Designed computational pipelines to handle and analyze bulk and single-cell RNA-seq data
- Supervisors: Prof. Matteo Iannacone, Dr. Marco J. Morelli

Tampere University

Research Assistant Arvo Building, Tampere, Finland (Feb 2020 - Sep 2020)

- Adapted deep learning models to analyze chromatin accessibility data from prostate cancer samples
- Supervisor: Prof. Matti Nykter

University Of Turin

Student Trainee Molecular Biotechnology Center, Turin, Italy (Apr 2017 - Sep 2018)

- Developed a software package to analyze human genetic variation and its effect on gene expression
- Supervisor: Prof. Paolo Provero

EDUCATION

University Of Cambridge

Cambridge, UK (Oct 2021 - present)

- PhD in Biological Sciences, EMBL International Predocutorial Programme
- Institution-level admission rate: 2.7%; unit-level admission rate: <1%

University Of Bologna

Bologna, Italy (Oct 2018 - Sep 2020)

- International M. Sc. in Bioinformatics
- Weighted Average: 29.09/30.00, final graduation mark: 110/110 cum laude

University Of Turin

Turin, Italy (Oct 2015 - Jul 2018)

- B. Sc. in Biotechnology
- Weighted Average: 28.3/30.00, final graduation mark: 110/110 cum laude

PUBLICATIONS AND PERSONAL PROJECTS

Research Project

(2021)

- [Prediction of gene expression from regulatory sequence composition enhances transcriptome-wide association studies](#)

Personal Project

(2020)

- [WebXiv](#), an NGINX web server running in a Docker container for remote file access

Research Project

(2020)

- [Chromatin accessibility analysis uncovers regulatory element landscape in prostate cancer progression](#)

Curricular Project

(2019)

- [A Support Vector Machine-based Method To Accurately Predict Protein Secondary Structure](#)

Bioconductor Package

(2018)

- [A functional approach to impute Genetically Regulated Expression](#)