Lorenzo **Fabbri**

PhD Student

Barcelona Institute for Global Health

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Research Interests

- Exposomics and Epidemiology
- Multi-Omics Data Integration
- Causal Inference and Bayesian Methods for High-Dimensional Data

Education

Universitat Pompeu Fabra   *Barcelona*

PhD Programme in Biomedicine   *2021 -*

- Projects: HELIX, ATHLETE, OBERON
    - Supervisors: Prof. Martine Vrijheid (ISGlobal), Prof. Lea Maitre (ISGlobal)

Università degli Studi di Trento   *Trento*

M.Sc. in Quantitative and Computational Biology   *2017 - 2019*

- Master thesis (FBK, Trento): Machine Learning for Predictive Drug-Induced Hepatotoxicity
    - Supervisors: Dr. Cesare Furlanello (FBK), Dr. Marco Chierici (FBK), Prof. Enrico Domenici (UNITN)
- Internship (HITS, Heidelberg): Machine and Deep Learning for Predictive Unbinding Kinetics of Kinases
    - Supervisors: Prof. Rebecca Wade (HITS), Dr. Daria Kokh (HITS), Prof. Raffaello Potestio (UNITN)
- Final mark: 110/110 With Honors

Università della Svizzera italiana   *Lugano*

M.Sc. Student in Computational Science   *2016 - 2017*

- Project: Investigation by Computational Techniques of Channelopaties related to Sodium Channels
    - Supervisors: Prof. Vittorio Limongelli (USI), Prof. Daniele Di Marino (USI)

University of Parma   *Parma*

B.Sc. in Biotechnology   *2012 - 2016*

- Bachelor thesis (RWTH, Aachen): Whole-body PBPK Modeling of Valproic Acid
    - Supervisors: Prof. Elena Maestri (UNIPR), Prof. Lars M. Blank (RWTH), Dr. Henrik Cordes (RWTH)
- Final mark: 103/110

Continuing Education

Sep 2021	**ELIXIR Omics Integration and Systems Biology** (National Bioinformatics Infrastructure Sweden, Online)
Aug 2021	**Advanced Statistics: Statistical Modelling** (Swiss Institute of Bioinformatics, Online)
Jun 2021	**Alpine Exposome Summer School** (Inserm and ATHLETE, Online)
Feb 2021	**Metabolomics Data Processing and Data Analysis** (University of Birmingham, Online)
May 2020	**Mendelian Randomisation** (Imperial College London, Online)
Sep 2017	**Image Analysis and Modeling of Complex Biological Dynamics** (University of Wurzburg, Wurzburg, Germany)
Jul 2017	**Effective High Performance Computing Summer School** (CSCS and University of Lugano, Lugano, Switzerland)
Feb 2017	**MARVEL School on Variationally Enhanced Sampling** (University of Lugano, Lugano, Switzerland)
Nov 2015	**Advanced Course in Alternatives to Animal Experimentation** (University of Genova, Genoa, Italy)

Working Experience

Barcelona Institute for Global Health   *Barcelona*

PhD Student   *2021 -*

Skills

Languages	Programming Languages	Markup Languages	Software Development
Italian (native), English (C1, IELTS 7.0), Spanish (basic)	R, Python, MATLAB, SAS, C	LaTeX, RMarkdown	GIT, SLURM, High-Performance Scientific Computing

Honors and Awards

2022   **Meritatamente 2022** (Società Unione Mutuo Soccorso)
2019   **Erasmus+ Traineeship Programme Scholarship** (Università degli Studi di Trento)
2017   **Student Research Assistant Fellowship** (Università della Svizzera italiana)
2016   **Faculty of Informatics Scholarship** (Università della Svizzera italiana)
2015   **Erasmus Traineeship Programme Scholarship** (Università degli Studi di Parma)

Publications

C Thiel, H Cordes, L Fabbri, HE Aschmann, V Baier, I Smit, F Atkinson, …   *PLoS computational biology*
A COMPARATIVE ANALYSIS OF DRUG-INDUCED HEPATOTOXICITY IN CLINICALLY RELEVANT SITUATIONS   *2017*

Conference Presentations

CHILDHOOD EXPOSURE TO NON-PERSISTENT ENDOCRINE DISRUPTING CHEMICALS AND MULTI-OMIC MARKERS IN A POPULATION-BASED CHILD COHORT   *2022*

CHILDHOOD EXPOSURE TO NON-PERSISTENT ENDOCRINE DISRUPTING CHEMICALS AND MULTI-OMIC MARKERS IN A POPULATION-BASED CHILD COHORT   *2022*

EFFICIENT AND PORTABLE MPI SUPPORT FOR APPROXIMATE BAYESIAN COMPUTATION   *2017*