

# 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

PHD PROGRAMME IN BIOMEDICINE

Barcelona

2021 -

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

### Università degli Studi di Trento

M.Sc. IN QUANTITATIVE AND COMPUTATIONAL BIOLOGY

Trento

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

M.Sc. STUDENT IN COMPUTATIONAL SCIENCE

Lugano

2016 - 2017

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

### University of Parma

B.Sc. IN BIOTECHNOLOGY

Parma

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)
- Sep 2021 **Fundamentals of Epidemiology (EPM101)** (LSHTM, 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

PHD STUDENT

Barcelona

2021 -

## Service

## Organisations

2022 -

- Consortium of METabolomics Studies (COMETS) - Early Career Scientist Working Group

## 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