

# Lorenzo Fabbri

## Summary

I am a PhD student at the Barcelona Institute for Global Health ([ISGlobal](#)). I work under the supervision of Prof. [Martine Vrijheid](#). My main topic of interest is the use of modern Causal Inference methods to answer questions in the broad field of Environmental Neuroepidemiology. I am also profoundly interested in Open Science and Reproducible Research.

I received my Bachelor's degree in Biotechnology and my Master's degree in Quantitative and Computational Biology.

My personal webpage can be found [here](#). You can also find me on [Twitter](#), [Bluesky](#), [Mastodon](#), and [GitHub](#).

## Working Experience

### PhD Student

Barcelona Institute for Global Health (Barcelona, ES)

2021 - Present

### Student Research Assistant Fellowship

Università della Svizzera italiana (Lugano, CH)

2017 - 2017

## Funding

### Meritatamente 2022

Società Unione Mutuo Soccorso (San Marino, SM)

2022

### Erasmus+ Traineeship Programme Scholarship

University of Trento (Trento, IT)

2019

### Faculty of Informatics Scholarship

Università della Svizzera italiana (Lugano, CH)

2016

### Erasmus Traineeship Programme Scholarship

University of Parma (Parma, IT)

2015

## Honors and Awards

### Outstanding Abstract by a Student

International Society for Environmental Epidemiology

2022

## Publications

My ORCID is [0000-0003-3031-322X](#).

1. **Fabbri L**, Garlantézec R, Audouze K, et al. Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic profiles: A panel study. *Environment International*. Published online February 26, 2023:107856. doi:[10.1016/j.envint.2023.107856](#)
2. Thiel C, Cordes H, **Fabbri L**, et al. A Comparative Analysis of Drug-Induced Hepatotoxicity in Clinically Relevant Situations. *PLOS Computational Biology*. 2017;13(2):e1005280. doi:[10.1371/journal.pcbi.1005280](#)

## Conference Presentations

The posters can be found [here](#).

### Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic profiles: a panel study

ISEE Annual Conference, Athens (GR)

2022

### Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic markers in a population-based child cohort

EURION Cluster Annual Meeting (online)

2022

### Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic markers in a population-based child cohort

International Prenatal Programming and Toxicity Meeting (online)

2022

### Efficient and Portable MPI Support for Approximate Bayesian Computation

Platform for Advanced Scientific Computing Conference, Lugano (CH)

2017

## Education

### PhD Programme in Biomedicine

Universitat Pompeu Fabra (Barcelona, ES)

2021 - Present

- Supervisor: Prof. Martine Vrijheid.

### M.Sc. in Quantitative and Computational Biology

Università degli Studi di Trento (Trento, IT)

2017 - 2019

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

### M.Sc. Student in Computational Science

Università della Svizzera italiana (Lugano, CH)

2016 - 2017

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

### B.Sc. in Biotechnology

University of Parma (Parma, IT)

2012 - 2016

- Thesis (RWTH, Aachen (DE)): Whole Body PBPK Modeling of Valproic Acid. Supervised by: Prof. Elena Maestri, Prof. Lars M. Blank, Dr. Henrik Cordes.
- Final mark: 103/110.

## Continuing Education

### Spring School in Causal Inference with Observational Data

Causal Insights, Leeds (UK)

Apr 2022

### Computational Bayesian methods using brms in R

Physalia Courses, online

Feb 2022

### ELIXIR Omics Integration and Systems Biology

National Bioinformatics Infrastructure Sweden, online

Sep 2021

### Fundamentals of Epidemiology (EPM101)

LSHTM, online

Sep 2021

### Advanced Statistics: Statistical Modelling

Swiss Institute of Bioinformatics, online

Aug 2021

### Alpine Exposome Summer School

Inserm and ATHLETE, online

Jun 2021

### Metabolomics Data Processing and Data Analysis

University of Birmingham, online

Feb 2021

### Mendelian Randomisation

Imperial College London, online

May 2020

### Image Analysis and Modeling of Complex Biological Dynamics

University of Wurzburg, Wurzburg (DE)

Sep 2017

### Effective High Performance Computing Summer School

CSCS and University of Lugano, Lugano (CH)

Jul 2017

### MARVEL School on Variationally Enhanced Sampling

University of Lugano, Lugano (CH)

Feb 2017

### Advanced Course in Alternatives to Animal Experimentation

University of Genova, Genoa (IT)

Nov 2015

## Service

**Students and New Researchers Network**

International Society for Environmental Epidemiology

2022 - 2023

**Early Career Scientist Working Group**

COnsortium of METabolomics Studies

2022 - 2022

**Skills****Languages**

Italian (native), English (C1, IELTS 7.0), Spanish (basic)

**Programming Languages**

R, Python, MATLAB, C

**Markup Languages**

LaTeX, RMarkdown

**Software Development**

git, SLURM, High Performance Scientific Computing