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 is 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	
1. Fabbri L, Garlantézec R, Audouze K, et al. Childhood exposure to non-persiste and multi-omic profiles: A panel study. Environment International. Published doi:10.1016/j.envint.2023.107856	
2. Thiel C, Cordes H, Fabbri L, et al. A Comparative Analysis of Drug-Inde Relevant Situations. PLOS Computational Biology. 2017;13(2):e1005280. do	
Conference Presentations	
Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omfiles: a panel study	
ISEE Annual Conference, Athens (GR) Childhood exposure to non-persistent endocrine disrupting chemicals and mult	i-omic
markers in a population-based child cohort EURION Cluster Annual Meeting (online)	2022
Childhood exposure to non-persistent endocrine disrupting chemicals and mult markers in a population-based child cohort International Prenatal Programing and Toxicity Meeting (online)	i-omic 2022
Efficient and Portable MPI Support for Approximate Bayesian Computation	2045

2017

Platform for Advanced Scientific Computing Conference, Lugano (CH)

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

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.
- Supervisors: Dr. Cesare Furlanello (FBK), Dr. Marco Chierici (FBK), Prof. Enrico Domenici (UNITN).
- Internship (HITS, Heidelberg (DE)): 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.

M.Sc. Student in Computational Science

Università della Svizzera italiana (Lugano, CH)

2016 - 2017

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

B.Sc. in Biotechnology

University of Parma (Parma, IT)

2012 - 2016

- Thesis (RWTH, Aachen (DE)): 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

Spring School in Causal Inference with Observational Data Causal Insights, Leeds (UK)	Apr 2022
Computational Bayesian methods using brms in R Physaliacourses, 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

Students and New Researchers Network

International Society for Environmental Epidemiology

Early Career Scientist Working Group

COnsortium of METabolomics Studies

2022 - 2023

2022 - 2022

Skills

Italian (native), English (C1, IELTS 7.0), Languages

Spanish (basic)

Programming Languages R, Python, MATLAB, C

Markup Languages LaTeX, RMarkdown

git, SLURM, High Performance Scientific Software Development

Computing