




Lorenzo Fabbri

PhD Student

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Research Interests

- Environmental and social determinants of **chronic diseases**, especially cancer and cardio-metabolic conditions.
- **Life-course** epidemiology.
- Transparent **causal** inference and evidence **triangulation**.

Academic Appointments

Postdoctoral Researcher

CESP (Villejuif, FR)

2025 - Present

PhD Student

Instituto de Salud Global Barcelona (Barcelona, ES)

2021 - 2025

Student Research Assistant Fellowship

Università della Svizzera italiana (Lugano, CH)

2017 - 2017

Education

Epidemiology

LSHTM (London, GB)

2025 - Present

- Fundamentals of Epidemiology (EPM101).
- Practical Epidemiology (EPM103).

Graduate Certificate in Theoretical Statistics and Probability

The Open University (Milton Keynes, GB)

2024 - Present

- Mathematical statistics (M347): 91/100 With Distinction.

PhD Programme in Biomedicine

Universitat Pompeu Fabra (Barcelona, ES)

2021 - 2025

- Thesis: Early Life Exposure to Environmental Chemicals and Neurodevelopment through Childhood and Adolescence.
- 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.

Grants and Fellowships

Causal Inference for Environmental Mixtures ATHLETE (Barcelona, ES)	2024
Causal Inference for Environmental Mixtures Centro de Investigación Biomédica en Red (Madrid, ES)	2024
Meritatamente 2023 Società Unione Mutuo Soccorso (San Marino, SM)	2024
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

Student Tuition Waiver [declined] CAUSALab Summer Courses on Causal Inference	2024
Outstanding Abstract by a Student International Society for Environmental Epidemiology	2022

Publications

Journal articles

Articles under review and revising

1. *Prenatal and Childhood Exposure to Mixtures of Environmental Chemicals and Adolescence Attentional Problems: A Triangulation Study.*

Software packages

causaleffects: Estimating causal effects https://github.com/lorenzoFabbri/causaleffects	2024
myphd: A easy to use package for common tasks in epidemiology and causal inference research projects https://github.com/isglobal-cep/myphd	2024
replicating-papers: Replicating papers from the epidemiology and causal inference literature https://github.com/lorenzoFabbri/replicating-papers	2024

Conferences, Workshops, and Talks

Research presentations and conference participation

See https://figshare.com/authors/Lorenzo_Fabbri for posters.

A precision environmental health approach to childhood obesity and metabolic dysfunction: identifying biological pathways and prenatal determinants

ISEE Annual Conference, Santiago (CL) 2024

Prenatal Exposure to Chemical Mixtures and Metabolic Syndrome Risk in European Children

ISEE Annual Conference, Santiago (CL) 2024

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 Programing and Toxicity Meeting (online) 2022

Efficient and Portable MPI Support for Approximate Bayesian Computation

Platform for Advanced Scientific Computing Conference, Lugano (CH) 2017

Talks and workshops

See <https://github.com/lorenzoFabbri/talks> for slides and materials.

Transparent causal inference for observational epidemiology

Colicino Group, NYC (via Zoom) Jan 2025

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

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

Referee

Scientific Reports (1).

Working groups

International Society for Environmental Epidemiology

Students and New Researchers Network

2022 - 2023

COnsortium of METabolomics Studies

Early Career Scientist Working Group

2022 - 2022

Professional memberships

Centro de Investigación Biomédica en Red (CIBERESP)

Member

2024 - 2025

Society for Longitudinal and Lifecourse Studies

Member

2024 - Present

Society for Epidemiologic Research

Member

2021 - 2024

Skills

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