

# Lorenzo Fabbri

Postdoctoral Researcher in Epidemiology

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## Research Interests

Cancer epidemiology, causal inference, and evidence triangulation.

## Academic Appointments

### Postdoctoral Researcher

*Barcelona Institute for Global Health* | Maternal, Child and Reproductive Health

Oct 2025 – Mar 2026

Barcelona, ES

### PhD Student

*Barcelona Institute for Global Health* | Childhood and Environment

Jun 2021 – Sep 2025

Barcelona, ES

### Student Research Assistant Fellowship

*Università della Svizzera italiana* | Faculty of Informatics

Mar 2017 – May 2017

Lugano, CH

## Education

### Máster universitario de Análisis Económico

*Universitat Oberta de Catalunya*

Mar 2026 – Present

Barcelona, ES

### Máster de Formación Permanente en Salud Pública

*UNED*

Dec 2025 – Present

Madrid, ES

### Diploma de Experto Universitario en Métodos Avanzados de Estadística Aplicada

*UNED*

Dec 2025 – Present

Madrid, ES

### PG Certificate in Public Health

*London School of Hygiene & Tropical Medicine*

Basic Epidemiology (PHM101)

Oct 2025 – Present

London, GB

### Graduate Certificate in Theoretical Statistics and Probability

*The Open University*

Mathematical Statistics (M347): 91/100 With Distinction

Oct 2024 – Present

Milton Keynes, GB

### PhD Programme in Biomedicine

*Universitat Pompeu Fabra* | Faculty of Health and Life Sciences

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

Supervisor: Prof. Martine Vrijheid

Sep 2021 – Sep 2025

Barcelona, ES

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

*Università degli Studi di Trento* | CIBIO

Thesis (FBK, Trento): Machine Learning for Predictive Drug Induced Hepatotoxicity. Supervised by: Dr. Cesare Furlanello,

Dr. Marco Chierici, Prof. Enrico Domenici. Internship (HITS, Heidelberg): 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

Oct 2017 – Oct 2019

Trento, IT

### M.Sc. Student in Computational Science

*Università della Svizzera italiana* | Faculty of Informatics

Project (USI, Lugano): Investigation by Computational Techniques of Channelopathies Related to Sodium Channels.

Supervised by: Prof. Vittorio Limongelli, Prof. Daniele Di Marino. (M.Sc. not completed; transferred to Università degli Studi di Trento.)

Sep 2016 – Jul 2017

Lugano, CH

### B.Sc. in Biotechnology

*University of Parma* | Dipartimento di Scienze Chimiche, della Vita e della Sostenibilità Ambientale

Thesis (RWTH, Aachen): Whole Body PBPK Modeling of Valproic Acid. Supervised by: Prof. Elena Maestri, Prof. Lars M.

Blank, Dr. Henrik Cordes. Final mark: 103/110

Oct 2012 – Feb 2016

Parma, IT

## Research Visits

### Master's thesis

*Fondazione Bruno Kessler* | Data Science for Health Unit

Jun 2019 – Oct 2019

Trento, IT

### Master's internship

*HITS* | Molecular and Cellular Modeling Group

Mar 2019 – May 2019

Heidelberg, DE

## Grants and Fellowships

<b>Meritatamente 2023</b> <i>Società Unione Mutuo Soccorso</i>	Mar 2024 – Sep 2024
<b>Causal Inference for Environmental Mixtures [declined]</b> <i>ATHLETE</i>	Mar 2024 – Jun 2024
<b>Causal Inference for Environmental Mixtures [declined]</b> <i>Centro de Investigación Biomédica en Red</i>	Jun 2024 – Sep 2024
<b>Meritatamente 2022</b> <i>Società Unione Mutuo Soccorso</i>	2022
<b>Erasmus+ Traineeship Programme Scholarship</b> <i>University of Trento</i>	Mar 2019 – May 2019
<b>Faculty of Informatics Scholarship</b> <i>Università della Svizzera italiana</i>	Sep 2016 – May 2017
<b>Erasmus Traineeship Programme Scholarship</b> <i>University of Parma</i>	Apr 2015 – Aug 2015

## Honors and Awards

<b>Student Tuition Waiver [declined]</b> <i>CAUSALab Summer Courses on Causal Inference</i>	Jun 2024 Boston, US
<b>Outstanding Abstract by a Student</b> <i>International Society for Environmental Epidemiology</i>	Sep 2022 Herndon, US

## Publications

### JOURNAL ARTICLES

- Fabbri L**, Andrušaitytė S, Basagaña X, Bhopal S, Bustamante M, Cheung RW, Gražulevičienė R, Guxens M, Kadawathagedara M, Kampouri M, Maitre L, Marquez S, Montazeri P, Myridakis A, Slama R, Thomsen C, Vrijheid M. Prenatal and childhood exposure to mixtures of environmental chemicals and adolescence attentional problems: a triangulation study. *Environment International*. 2025;206:109927. doi:10.1016/j.envint.2025.109927
- Fabbri L**, Robinson O, Basagaña X, Chatzi L, Gražulevičienė R, Guxens M, Kadawathagedara M, Sakhi AK, Maitre L, McEachan R, Philippat C, Pozo ÓJ, Thomsen C, Wright J, Yang T, Vrijheid M. Childhood exposure to non-persistent endocrine disruptors, glucocorticosteroids, and attentional function: A cross-sectional study based on the parametric g-formula. *Environmental Research*. 2025;264:120413. doi:10.1016/j.envres.2024.120413
- Warkentin S, Stratakis N, **Fabbri L**, Wright J, Yang TC, Bryant M, Heude B, Slama R, Montazeri P, Vafeiadi M, Gražulevičienė R, Brantsæter AL, Vrijheid M. Dietary patterns among European children and their association with adiposity-related outcomes: a multi-country study. *International Journal of Obesity*. 2025;49(2):295-305. doi:10.1038/s41366-024-01657-6
- Stratakis N, Anguita-Ruiz A, **Fabbri L**, Maitre L, González JR, Andrusaityte S, Basagaña X, Borràs E, Keun HC, Chatzi L, Conti DV, Goodrich J, Gražulevičienė R, Haug LS, Heude B, Yuan WL, McEachan R, Nieuwenhuijsen M, Sabidó E, Slama R, Thomsen C, Urquiza J, Roumeliotaki T, Vafeiadi M, Wright J, Bustamante M, Vrijheid M. Multi-omics architecture of childhood obesity and metabolic dysfunction uncovers biological pathways and prenatal determinants. *Nature Communications*. 2025;16(1). doi:10.1038/s41467-025-56013-7
- Güil-Oumrait N, Stratakis N, Maitre L, Anguita-Ruiz A, Urquiza J, **Fabbri L**, Basagaña X, Heude B, Haug LS, Sakhi AK, Iszatt N, Keun HC, Wright J, Chatzi L, Vafeiadi M, Bustamante M, Gražulevičienė R, Andrušaitytė S, Slama R, McEachan R, Casas M, Vrijheid M. Prenatal Exposure to Chemical Mixtures and Metabolic Syndrome Risk in Children. *JAMA Network Open*. 2024;7(5):e2412040. doi:10.1001/jamanetworkopen.2024.12040
- Fabbri L**, Garlandtézec R, Audouze K, Bustamante M, Carracedo Á, Chatzi L, Ramón González J, Gražulevičienė R, Keun H, Lau CHE, Sabidó E, Siskos AP, Slama R, Thomsen C, Wright J, Lun Yuan W, Casas M, Vrijheid M, Maitre L. Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic profiles: A panel study. *Environment International*. 2023;173:107856. doi:10.1016/j.envint.2023.107856
- Thiel C, Cordes H, **Fabbri L**, Aschmann HE, Baier V, Smit I, Atkinson F, Blank LM, Kuepfer L. A Comparative Analysis of Drug-Induced Hepatotoxicity in Clinically Relevant Situations. *PLOS Computational Biology*. 2017;13(2):e1005280. doi:10.1371/journal.pcbi.1005280

### ARTICLES UNDER REVIEW

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- Distinct tumor microenvironment signatures predict outcomes and correlate with PD-L1 in HPV-independent vulvar cancer.
  - Cohort Profile Update: The Human Early Life Exposome (HELIX) Cohort.

## Software

**etverse**: Modular R ecosystem for transparent causal inference [[github.com/etverse](https://github.com/etverse)]

Software | In development

Includes: **causatr** (causal effects estimation), **negatr** (negative control analysis), and additional methods packages.

**forrest**: Publication-Ready Forest Plots [[link](#)]

Software | CRAN: Contributed Packages, 2026

**orcidtr**: Retrieve Data from the ORCID Public API [[link](#)]

Software | CRAN: Contributed Packages, 2026

## Talks

See [github.com/lorenzoFabbri/talks](https://github.com/lorenzoFabbri/talks) for slides and materials.

**Transparent causal inference for observational epidemiology**

Invited talk | Colicino Group, Icahn School of Medicine at Mount Sinai (via Zoom), Jan 2025

## Conference Presentations

### CONTRIBUTED TALKS

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1. **Efficient and Portable MPI Support for Approximate Bayesian Computation** [[link](#)]

Contributed talk | Platform for Advanced Scientific Computing, 2017

### POSTERS

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1. **A precision environmental health approach to childhood obesity and metabolic dysfunction: identifying biological pathways and prenatal determinants** [[link](#)]

Poster | ISEE Conference Abstracts, 2024

2. **Prenatal Exposure to Chemical Mixtures and Metabolic Syndrome Risk in European Children** [[link](#)]

Poster | ISEE Conference Abstracts, 2024

3. **Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic markers in a population-based child cohort** [[link](#)]

Poster | ISEE Conference Abstracts, 2022

4. **Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic markers in a population-based child cohort** [[link](#)]

Poster | EURION Cluster Annual Meeting, 2022

5. **Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic markers in a population-based child cohort** [[link](#)]

Poster | PPTOX-VII International Conference, 2022

## Continuing Education

**Spring School in Causal Inference with Observational Data**

*Causal Insights*

Apr 2022

Leeds, GB

**Computational Bayesian methods using brms in R**

*Physalia Courses*

Feb 2022

Berlin, DE

**ELIXIR Omics Integration and Systems Biology**

*National Bioinformatics Infrastructure Sweden*

Sep 2021

Uppsala, SE

**Advanced Statistics: Statistical Modelling**

*Swiss Institute of Bioinformatics*

Aug 2021

Lausanne, CH

**Alpine Exposome Summer School**

*INSERM*

Jun 2021

Paris, FR

**Metabolomics Data Processing and Data Analysis**

*University of Birmingham*

Feb 2021

Birmingham, GB

**Mendelian Randomisation**

*Imperial College London*

May 2020

London, GB

<b>Image Analysis and Modeling of Complex Biological Dynamics</b> <i>University of Würzburg</i>	Sep 2017 Würzburg, DE
<b>Effective High Performance Computing Summer School</b> <i>CSCS - Swiss National Supercomputing Centre</i>	Jul 2017 Lugano, CH
<b>MARVEL School on Variationally Enhanced Sampling</b> <i>University of Lugano</i>	Feb 2017 Lugano, CH
<b>Advanced Course in Alternatives to Animal Experimentation</b> <i>University of Genoa</i>	Nov 2015 Genoa, IT

## Service

### PEER REVIEW

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- *Scientific Reports* (1 review)

### WORKING GROUPS

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<b>Students and New Researchers Network</b> <i>International Society for Environmental Epidemiology</i>	2022 – 2023 Herndon, US
<b>Early Career Scientist Working Group</b> <i>COnsortium of METabolomics Studies</i>	2022 Bethesda, US

### MEMBERSHIPS

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- Sociedad Española de Epidemiología
- Society for Longitudinal and Lifecourse Studies
- Centro de Investigación Biomédica en Red (CIBERESP)
- Society for Epidemiologic Research (Student/PostDoc)

## Skills

Category	Details
Languages	Italian (native), English (C1, IELTS 7.0), Spanish (basic)
Programming	R, Python, MATLAB, C
Markup	LaTeX, Quarto/RMarkdown
Tools	git, SLURM, high-performance scientific computing
Methods	causal inference (g-methods, negative controls, trial emulation, Mendelian randomization), longitudinal/panel data analysis, survival analysis, multi-omic integration