# Lorenzo Fabbri

Investigador postdoctoral en Epidemiología

✉️ lorenzo.fabbri92sm@gmail.com
📍 Madrid, España
🌐 lorenzofabbri.github.io/epilorenzo
🆔 orcid.org/0000-0003-3031-322X
🎓 Google Scholar
💻 github.com/lorenzoFabbri
💼 LinkedIn
🦋 Bluesky

## Intereses de Investigación

Epidemiología del cáncer, inferencia causal y triangulación de la evidencia.

## Experiencia Académica

**Postdoctoral Researcher** — oct 2025 – mar 2026
*Barcelona Institute for Global Health* | Maternal, Child and Reproductive Health — Barcelona, ES

**PhD Student** — jun 2021 – sep 2025
*Barcelona Institute for Global Health* | Childhood and Environment — Barcelona, ES

**Student Research Assistant Fellowship** — mar 2017 – may 2017
*Università della Svizzera italiana* | Faculty of Informatics — Lugano, CH

## Formación Académica

**Máster universitario de Análisis Económico** — mar 2026 – Actual
*Universitat Oberta de Catalunya* — Barcelona, ES

**Máster de Formación Permanente en Salud Pública** — dic 2025 – Actual
*UNED* — Madrid, ES

**Diploma de Experto Universitario en Métodos Avanzados de Estadística Aplicada** — dic 2025 – Actual
*UNED* — Madrid, ES

**PG Certificate in Public Health** — oct 2025 – Actual
*London School of Hygiene & Tropical Medicine* — London, GB
Epidemiología Básica (PHM101)

**Graduate Certificate in Theoretical Statistics and Probability** — oct 2024 – Actual
*The Open University* — Milton Keynes, GB
Estadística Matemática (M347): 91/100 con distinción

**PhD Programme in Biomedicine** — sep 2021 – sep 2025
*Universitat Pompeu Fabra* | Faculty of Health and Life Sciences — Barcelona, ES
Tesis: Exposición temprana a contaminantes ambientales y neurodesarrollo en la infancia y la adolescencia. Directora: Prof. Martine Vrijheid

**M.Sc. in Quantitative and Computational Biology** — oct 2017 – oct 2019
*Università degli Studi di Trento* | CIBIO — Trento, IT
Tesis (FBK, Trento): Aprendizaje automático para predecir hepatotoxicidad inducida por fármacos. Dirigida por: Dr. Cesare Furlanello, Dr. Marco Chierici, Prof. Enrico Domenici. Estancia (HITS, Heidelberg): Aprendizaje automático y profundo para predecir cinéticas de disociación en quinasas. Dirigida por: Prof. Rebecca Wade, Dr. Daria Kokh, Prof. Raffaello Potestio. Calificación final: 110/110 con honores

**M.Sc. Student in Computational Science** — sep 2016 – jul 2017
*Università della Svizzera italiana* | Faculty of Informatics — Lugano, CH
Proyecto (USI, Lugano): Investigación mediante técnicas computacionales de canalopatías relacionadas con canales de sodio. Dirigido por: Prof. Vittorio Limongelli, Prof. Daniele Di Marino. (Máster no completado; traslado a la Università degli Studi di Trento.)

**B.Sc. in Biotechnology** — oct 2012 – feb 2016
*University of Parma* | Dipartimento di Scienze Chimiche, della Vita e della Sostenibilità Ambientale — Parma, IT
Tesis (RWTH, Aachen): Modelado farmacocinético basado en fisiología (PBPK) del ácido valproico. Dirigida por: Prof. Elena Maestri, Prof. Lars M. Blank, Dr. Henrik Cordes. Calificación final: 103/110

## Estancias de Investigación

**Master's thesis** — jun 2019 – oct 2019
*Fondazione Bruno Kessler* | Data Science for Health Unit — Trento, IT

**Master's internship** — mar 2019 – may 2019
*HITS* | Molecular and Cellular Modeling Group — Heidelberg, DE

**Bachelor's thesis** abr 2015 – ago 2015
*RWTH Aachen University* | Institute of Applied Microbiology Aachen, DE

## Becas y Financiación

**Meritatamente 2023** mar 2024 – sep 2024
*Società Unione Mutuo Soccorso*

**Causal Inference for Environmental Mixtures [declined]** mar 2024 – jun 2024
*ATHLETE*

**Causal Inference for Environmental Mixtures [declined]** jun 2024 – sep 2024
*Centro de Investigación Biomédica en Red*

**Meritatamente 2022** 2022
*Società Unione Mutuo Soccorso*

**Erasmus+ Traineeship Programme Scholarship** mar 2019 – may 2019
*University of Trento*

**Faculty of Informatics Scholarship** sep 2016 – may 2017
*Università della Svizzera italiana*

**Erasmus Traineeship Programme Scholarship** abr 2015 – ago 2015
*University of Parma*

## Honores y Premios

**Student Tuition Waiver [declined]** jun 2024
*CAUSALab Summer Courses on Causal Inference* Boston, US

**Outstanding Abstract by a Student** sep 2022
*International Society for Environmental Epidemiology* Herndon, US

## Publicaciones

### ARTÍCULOS EN REVISTAS

1. **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
2. **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
3. Warkentin S, Stratakis N, **Fabbri L**, Wright J, Yang TC, Bryant M, Heude B, Slama R, Montazeri P, Vafeiadi M, Grazuleviciene 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
4. 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, Grazuleviciene 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
5. 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, Grazuleviciene 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
6. **Fabbri L**, Garlantézec 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
7. 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

### ARTÍCULOS EN REVISIÓN

- 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: ecosistema modular de R para inferencia causal transparente** [github.com/etverse]
Software | En desarrollo
Incluye: **causatr** (estimación de efectos causales), **negatr** (análisis de controles negativos) y otros paquetes de métodos.

**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

## Charlas

Las diapositivas y materiales están en github.com/lorenzoFabbri/talks.

**Transparent causal inference for observational epidemiology**
Charla invitada | Colicino Group, Icahn School of Medicine at Mount Sinai (vía Zoom), ene 2025

## Comunicaciones a Congresos

### COMUNICACIONES ORALES

1. **Efficient and Portable MPI Support for Approximate Bayesian Computation** [link]
   Comunicación oral | Platform for Advanced Scientific Computing, 2017

### PÓSTERS

1. **A precision environmental health approach to childhood obesity and metabolic dysfunction: identifying biological pathways and prenatal determinants** [link]
   Póster | ISEE Conference Abstracts, 2024
2. **Prenatal Exposure to Chemical Mixtures and Metabolic Syndrome Risk in European Children** [link]
   Póster | ISEE Conference Abstracts, 2024
3. **Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic markers in a population-based child cohort** [link]
   Póster | ISEE Conference Abstracts, 2022
4. **Childhood exposure to non-persistent endocrine disrupting chemicals and multi-omic markers in a population-based child cohort** [link]
   Póster | 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]
   Póster | PPTOX-VII International Conference, 2022

## Formación Continua

**Spring School in Causal Inference with Observational Data** — abr 2022
*Causal Insights* — Leeds, GB

**Computational Bayesian methods using brms in R** — feb 2022
*Physalia Courses* — Berlin, DE

**ELIXIR Omics Integration and Systems Biology** — sep 2021
*National Bioinformatics Infrastructure Sweden* — Uppsala, SE

**Advanced Statistics: Statistical Modelling** — ago 2021
*Swiss Institute of Bioinformatics* — Lausanne, CH

**Alpine Exposome Summer School** — jun 2021
*INSERM* — Paris, FR

**Metabolomics Data Processing and Data Analysis** — feb 2021
*University of Birmingham* — Birmingham, GB

**Mendelian Randomisation** — may 2020
*Imperial College London* — London, GB

**Image Analysis and Modeling of Complex Biological Dynamics** sep 2017
*University of Würzburg* Würzburg, DE

**Effective High Performance Computing Summer School** jul 2017
*CSCS - Swiss National Supercomputing Centre* Lugano, CH

**MARVEL School on Variationally Enhanced Sampling** feb 2017
*University of Lugano* Lugano, CH

**Advanced Course in Alternatives to Animal Experimentation** nov 2015
*University of Genoa* Genoa, IT

## Servicio

### REVISIÓN POR PARES

- *Scientific Reports* (1 revisión)

### GRUPOS DE TRABAJO

**Students and New Researchers Network** 2022 – 2023
*International Society for Environmental Epidemiology* Herndon, US

**Early Career Scientist Working Group** 2022
*COnsortium of METabolomics Studies* Bethesda, US

### MEMBRESÍAS

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

## Competencias

| Categoría | Detalles |
|---|---|
| Idiomas | italiano (lengua materna), inglés (C1, IELTS 7.0), español (básico) |
| Programación | R, Python, MATLAB, C |
| Marcado | LaTeX, Quarto/RMarkdown |
| Herramientas | git, SLURM, computación científica de altas prestaciones |
| Métodos | inferencia causal (g-methods, controles negativos, emulación de ensayos clínicos, aleatorización mendeliana), análisis longitudinal y de panel, análisis de supervivencia, integración multi-ómica |