

Lorenzo Fabbri

Quantitative Scientist · Causal Inference & Applied Epidemiology

✉ lorenzo.fabbri92sm@gmail.com

📍 Madrid, Spain

🌐 lorenzofabbri.github.io/epilorenzo

🆔 orcid.org/0000-0003-3031-322X

🎓 [Google Scholar](#)

🏠 github.com/lorenzoFabbri

📄 [LinkedIn](#)

🐦 [Bluesky](#)

Profile

Quantitative scientist building reproducible causal-inference pipelines on large-scale observational health data. PhD-trained in causal inference, with applied focus on longitudinal cohorts and multi-omic integration. Applied g-methods, negative controls, trial emulation, and Mendelian randomization in international cohort studies (HELIX, ATHLETE). Author of CRAN R packages (forrest, orcidtr) and lead developer of the **etverse** ecosystem for reproducible and transparent causal inference.

Skills

Category	Details
Methods	causal inference (g-methods, negative controls, trial emulation, Mendelian randomization), longitudinal/panel data analysis, survival analysis, multi-omic integration, machine learning
Programming	R (advanced; CRAN packages), Python, MATLAB, C
Data & infrastructure	git, GitHub Actions, SLURM, high-performance scientific computing, reproducible pipelines (Quarto, renv, targets)
Markup	LaTeX, Quarto/RMarkdown
Languages	Italian (native), English (C1, IELTS 7.0), Spanish (basic)

Software

etverse: Modular R ecosystem for transparent causal inference [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

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

Diploma de Experto Universitario en Métodos Avanzados de Estadística Aplicada

UNED

Dec 2025 – Present

Madrid, ES

Graduate Certificate in Theoretical Statistics and Probability

The Open University

Oct 2024 – Present

Milton Keynes, GB

PhD Programme in Biomedicine

Universitat Pompeu Fabra | Faculty of Health and Life Sciences

Sep 2021 – Sep 2025

Barcelona, ES

M.Sc. in Quantitative and Computational Biology

Università degli Studi di Trento | CIBIO

Oct 2017 – Oct 2019

Trento, IT

B.Sc. in Biotechnology

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

Oct 2012 – Feb 2016

Parma, IT

Selected Publications

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

Full publication list available at [ORCID](#) and [Google Scholar](#).

Honors and Awards

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

Continuing Education

Spring School in Causal Inference with Observational Data <i>Causal Insights</i>	Apr 2022 Leeds, GB
Computational Bayesian methods using brms in R <i>Physalia Courses</i>	Feb 2022 Berlin, DE
ELIXIR Omics Integration and Systems Biology <i>National Bioinformatics Infrastructure Sweden</i>	Sep 2021 Uppsala, SE
Advanced Statistics: Statistical Modelling <i>Swiss Institute of Bioinformatics</i>	Aug 2021 Lausanne, CH
Alpine Exposome Summer School <i>INSERM</i>	Jun 2021 Paris, FR
Metabolomics Data Processing and Data Analysis <i>University of Birmingham</i>	Feb 2021 Birmingham, GB
Mendelian Randomisation <i>Imperial College London</i>	May 2020 London, GB
Image Analysis and Modeling of Complex Biological Dynamics <i>University of Würzburg</i>	Sep 2017 Würzburg, DE
Effective High Performance Computing Summer School <i>CSCS - Swiss National Supercomputing Centre</i>	Jul 2017 Lugano, CH
MARVEL School on Variationally Enhanced Sampling <i>University of Lugano</i>	Feb 2017 Lugano, CH
Advanced Course in Alternatives to Animal Experimentation <i>University of Genoa</i>	Nov 2015 Genoa, IT