




Lorenzo Fabbri

PhD Student

✉ lorenzo.fabbri@isglobal.org  [0000-0003-3031-322X](https://orcid.org/0000-0003-3031-322X)  [QbPv1H0AAAAJ](https://github.com/QbPv1H0AAAAJ)  [lorenzoFabbri](https://www.researchgate.net/profile/lorenzoFabbri)

Academic Appointments

PhD Student

Barcelona Institute for Global Health (Barcelona, ES) 2021 - Present

Student Research Assistant Fellowship

Università della Svizzera italiana (Lugano, CH) 2017 - 2017

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

- [1] **Lorenzo Fabbri**, Oliver Robinson, Xavier Basagaña, Leda Chatzi, Regina Grauleviiien, Mònica Guxens, Manik Kadawathagedara, Amrit Kaur Sakhi, Léa Maitre, Rosemary McEachan, Claire Philippat, Óscar J. Pozo, Cathrine Thomsen, John Wright, Tiffany Yang and Martine Vrijheid. 'Childhood Exposure to Non-Persistent Endocrine Disruptors, Glucocorticosteroids, and Attentional Function: A Cross-Sectional Study Based on the Parametric g-Formula'. In: *Environmental Research* 264 (1st Jan. 2025), p. 120413. ISSN: 0013-9351. DOI: [10.1016/j.envres.2024.120413](https://doi.org/10.1016/j.envres.2024.120413). pmid: [39577729](https://pubmed.ncbi.nlm.nih.gov/39577729/). URL: <https://www.sciencedirect.com/science/article/pii/S001393512402320X> (visited on 25/11/2024).
- [2] Nikos Stratakis, Augusto Anguita-Ruiz, **Lorenzo Fabbri**, Léa Maitre, Juan R. González, Sandra Andrusaityte, Xavier Basagaña, Eva Borràs, Hector C. Keun, Lida Chatzi, David V. Conti, Jesse Goodrich, Regina Grazuleviciene, Line Småstuen Haug, Barbara Heude, Wen Lun Yuan, Rosemary McEachan, Mark Nieuwenhuijsen, Eduard Sabidó, Rémy Slama, Cathrine Thomsen, Jose Urquiza, Theano Roumeliotaki, Marina Vafeiadi, John Wright, Mariona Bustamante and Martine Vrijheid. 'Multi-Omics Architecture of Childhood Obesity and Metabolic Dysfunction Uncovers Biological Pathways and Prenatal Determinants'. In: *Nature Communications* 16.1 (14th Jan. 2025), p. 654. ISSN: 2041-1723. DOI: [10.1038/s41467-025-56013-7](https://doi.org/10.1038/s41467-025-56013-7). URL: <https://www.nature.com/articles/s41467-025-56013-7> (visited on 15/01/2025).
- [3] Nuria Güil-Oumrait, Nikos Stratakis, Léa Maitre, Augusto Anguita-Ruiz, Jose Urquiza, **Lorenzo Fabbri**, Xavier Basagaña, Barbara Heude, Line Småstuen Haug, Amrit Kaur Sakhi, Nina Iszatt, Hector C. Keun,

- John Wright, Leda Chatzi, Marina Vafeiadi, Mariona Bustamante, Regina Grazuleviciene, Sandra Andruaityt, Rémy Slama, Rosemary McEachan, Maribel Casas and Martine Vrijheid. ‘Prenatal Exposure to Chemical Mixtures and Metabolic Syndrome Risk in Children’. In: *JAMA Network Open* 7.5 (23rd May 2024), e2412040. ISSN: 2574-3805. DOI: [10.1001/jamanetworkopen.2024.12040](https://doi.org/10.1001/jamanetworkopen.2024.12040). URL: <https://doi.org/10.1001/jamanetworkopen.2024.12040> (visited on 16/07/2024).
- [4] Sarah Warkentin, Nikos Stratakis, **Lorenzo Fabbri**, John Wright, Tiffany C. Yang, Maria Bryant, Barbara Heude, Rémy Slama, Parisa Montazeri, Marina Vafeiadi, Regina Grazuleviciene, Anne Lise Brantsæter and Martine Vrijheid. ‘Dietary Patterns among European Children and Their Association with Adiposity-Related Outcomes: A Multi-Country Study’. In: *International Journal of Obesity* (27th Oct. 2024), pp. 1–11. ISSN: 1476-5497. DOI: [10.1038/s41366-024-01657-6](https://doi.org/10.1038/s41366-024-01657-6). PMID: 39465309. URL: <https://www.nature.com/articles/s41366-024-01657-6> (visited on 12/12/2024).
- [5] **Lorenzo Fabbri**, Ronan Garlantézec, Karine Audouze, Mariona Bustamante, Ángel Carracedo, Leda Chatzi, Juan Ramón González, Regina Grauleviciene, Hector Keun, Chung-Ho E Lau, Eduard Sabidó, Alexandros P Siskos, Rémy Slama, Cathrine Thomsen, John Wright, Wen Lun Yuan, Maribel Casas, Martine Vrijheid and Léa Maitre. ‘Childhood Exposure to Non-Persistent Endocrine Disrupting Chemicals and Multi-Omic Profiles: A Panel Study’. In: *Environment International* (26th Feb. 2023), p. 107856. ISSN: 0160-4120. DOI: [10.1016/j.envint.2023.107856](https://doi.org/10.1016/j.envint.2023.107856). URL: <https://www.sciencedirect.com/science/article/pii/S0160412023001290> (visited on 27/02/2023).
- [6] Christoph Thiel, Henrik Cordes, **Lorenzo Fabbri**, Hélène Eloise Aschmann, Vanessa Baier, Ines Smit, Francis Atkinson, Lars Mathias Blank and Lars Kuepfer. ‘A Comparative Analysis of Drug-Induced Hepatotoxicity in Clinically Relevant Situations’. In: *PLOS Computational Biology* 13.2 (2nd Feb. 2017), e1005280. ISSN: 1553-7358. DOI: [10.1371/journal.pcbi.1005280](https://doi.org/10.1371/journal.pcbi.1005280). URL: <https://journals.plos.org/ploscompbiol/article?id=10.1371/journal.pcbi.1005280> (visited on 20/09/2023).

Articles under review and revising

1. *Prenatal and childhood exposure to mixtures of non-persistent endocrine disrupting chemicals (EDC) and adolescence neurodevelopment: a triangulation study.*

Software packages

causaleffects: Estimating causal effects

<https://github.com/Causality-Bites/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 Programming 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

Education

Epidemiology

LSHTM (London, GB)

2025 - Present

- Epidemiology by Distance Learning - Individual modules.
- 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).

PhD Programme in Biomedicine

Universitat Pompeu Fabra (Barcelona, ES)

2021 - Present

- 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.

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		Aug 2021
Swiss Institute of Bioinformatics, online		
Alpine Exposome Summer School		Jun 2021
Inserm and ATHLETE, online		
Metabolomics Data Processing and Data Analysis		Feb 2021
University of Birmingham, online		
Mendelian Randomisation		May 2020
Imperial College London, online		
Image Analysis and Modeling of Complex Biological Dynamics		Sep 2017
University of Wurzburg, Wurzburg (DE)		
Effective High Performance Computing Summer School		Jul 2017
CSCS and University of Lugano, 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 Genova, Genoa (IT)		
Service		
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Referee		
<i>Scientific Reports</i> (1).		
Working groups		
International Society for Environmental Epidemiology		2022 - 2023
Students and New Researchers Network		
COnsortium of METabolomics Studies		2022 - 2022
Early Career Scientist Working Group		
Professional memberships		
Society for Longitudinal and Lifecourse Studies		2024 - Present
Member		
Centro de Investigación Biomédica en Red (CIBERESP)		2024 - Present
Member		
Society for Epidemiologic Research		2021 - 2024
Member		
Skills		
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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	