

Lorenzo Fabbri

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Working Experience

PhD Student

Barcelona Institute for Global Health (Barcelona, ES)

2021 - Present

Student Research Assistant Fellowship

Università della Svizzera italiana (Lugano, CH)

2017 - 2017

Research Visits

Visiting PhD Student

Harvard Pilgrim Health Care (Boston, US)

2024 - 2024

Funding

Causal Inference for Environmental Mixtures

Società Unione Mutuo Soccorso (San Marino, SM)

2024

Causal Inference for Environmental Mixtures

ATHLETE (Barcelona, ES)

2024

Causal Inference for Environmental Mixtures

Centro de Investigación Biomédica en Red (Madrid, ES)

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

Outstanding Abstract by a Student

International Society for Environmental Epidemiology

2022

Publications

My ORCID is [0000-0003-3031-322X](https://orcid.org/0000-0003-3031-322X) and Google Scholar is [QbPv1H0AAAAJ](https://scholar.google.com/citations?user=QbPv1H0AAAAJ).

Journal Articles

Code for my PhD research output can be found [here](#).

- [1] 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).
- [2] Sarah Warkentin, Nikos Stratakis, **Lorenzo Fabbri**, John Wright, Tiffany Yang, Maria Bryant, Barbara Heude, Remy 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*. 17th July 2024. DOI: [10.21203/rs.3.rs-4575667/v1](https://doi.org/10.21203/rs.3.rs-4575667/v1). URL: <https://www.researchsquare.com/article/rs-4575667/v1> (visited on 06/08/2024). Pre-published.
- [3] **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).
- [4] 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. Childhood exposure to non-persistent endocrine disruptors, glucocorticosteroids, and attentional function: A study based on the parametric g-formula. *First author*
2. Multi-omics architecture of obesity and metabolic dysfunction in childhood: identifying biological pathways and prenatal determinants. *Co-author*

Software Packages

My GitHub profile can be found [here](#).

causaleffects: Estimating causal effects

<https://github.com/Causality-Bites/causaleffects>

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

Conference Presentations

Posters can be found [here](#).

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

Education

Postgraduate Diploma in Global Health Policy London School of Hygiene and Tropical Medicine (London, GB)	2024 - Present
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Graduate Certificate in Theoretical Statistics and Probability The Open University (Milton Keynes, GB)	2024 - Present
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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

Fundamentals of Epidemiology (EPM101)

LSHTM, 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

Students and New Researchers Network International Society for Environmental Epidemiology	2022 - 2023
Early Career Scientist Working Group COnsortium of METabolomics Studies	2022 - 2022

Skills

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