Lorenzo Fabbri

PhD Student

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Research Interests

- Environmental and social determinants of **chronic diseases**, especially cancer and cardio-metabolic conditions.
- Life-course epidemiology.
- Transparent causal inference and evidence triangulation.

Academic Appointments

Postdoctoral Researcher

CESP (Villejuif, FR)

2025 - Present

PhD Student

Instituto de Salud Global Barcelona (Barcelona, ES)

2021 - 2025

Student Research Assistant Fellowship

Università della Svizzera italiana (Lugano, CH)

2017 - 2017

Education

Epidemiology

LSHTM (London, GB)

2025 - Present

- 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): 91/100 With Distinction.

PhD Programme in Biomedicine

Universitat Pompeu Fabra (Barcelona, ES)

2021 - 2025

- Thesis: Early Life Exposure to Environmental Chemicals and Neurodevelopment through Childhood and Adolescence.
- 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 Channelopaties related to Sodium Channels. Supervised by: Prof. Vittorio Limongelli, Prof. Daniele Di Marino.

B.Sc. in Biotechnology

University of Parma (Parma, IT)

2012 - 2016

Last revised: Tuesday 22nd July, 2025

- 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.

Grants and Fellowships

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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	
Dublications		

Publications

Journal articles

- [1] Lorenzo Fabbri, Oliver Robinson, Xavier Basagaña, Leda Chatzi, Regina Grauleviien, 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. pmid: 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. 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. 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, 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-

Last revised: Tuesday 22nd July, 2025

- Country Study'. In: International Journal of Obesity (27th Oct. 2024), pp. 1–11. ISSN: 1476-5497. DOI: 10.1038/s41366-024-01657-6. pmid: 39465309. URL: https://www.nature.com/articles/s41366-024-01657-6 (visited on 12/12/2024).
- Lorenzo Fabbri, Ronan Garlantézec, Karine Audouze, Mariona Bustamante, Ángel Carracedo, Leda Chatzi, Juan Ramón González, Regina Grauleviien, 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. 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. 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 Environmental Chemicals and Adolescence Attentional Problems: A Triangulation Study.

Software packages

causaleffects: Estimating causal effects https://github.com/lorenzoFabbri/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 Programing and Toxicity Meeting (online) 2022 Efficient and Portable MPI Support for Approximate Bayesian Computation

Talks and workshops

2017

See https://github.com/lorenzoFabbri/talks for slides and materials.

Transparent causal inference for observational epidemiology

Platform for Advanced Scientific Computing Conference, Lugano (CH)

Colicino Group, NYC (via Zoom)

Jan 2025

Last revised: Tuesday 22nd July, 2025

Continuing Education

	Continuing Education	
Spring School in Causal Inference Causal Insights, Leeds (UK)	with Observational Data	Apr 2022
Computational Bayesian methods u	using brms in R	11p1 2022
Physalia Courses, online		Feb 2022
ELIXIR Omics Integration and Systational Bioinformatics Infrastructure S		Sep 2021
Advanced Statistics: Statistical Mo Swiss Institute of Bioinformatics, online	odelling	Aug 2021
Alpine Exposome Summer School nserm and ATHLETE, online		Jun 2021
Metabolomics Data Processing and University of Birmingham, online	l Data Analysis	Feb 2021
Mendelian Randomisation mperial College London, online		May 2020
mage Analysis and Modeling of Countries of Wurzburg, Wurzburg (DE)		Sep 2017
Effective High Performance Compu	o .	Jul 2017
MARVEL School on Variationally Education (CH)	Enhanced Sampling	Feb 2017
Advanced Course in Alternatives to University of Genova, Genoa (IT)	o Animal Experimentation	Nov 2015
	Service	
0 - (1)	Referee	
cientific Reports (1).	Working groups	
international Society for Environm		
Students and New Researchers Network		2022 - 2023
COnsortium of METabolomics Studently Career Scientist Working Group	dies	2022 - 2022
I Centro de Investigación Biomédica	Professional memberships	
Member	en ned (CIBBICESI)	2024 - 2025
Society for Longitudinal and Lifeco	ourse Studies	2024 - Present
· ·		2024 - 1 Tesent
Member Society for Epidemiologic Research	1	2024 - 1 resent 2021 - 2024
Member Society for Epidemiologic Research	Skills	
Member Society for Epidemiologic Research Member	Skills	2021 - 2024
Member Society for Epidemiologic Research Member Languages	Skills Italian (native), English (C1, IELTS 7.0	2021 - 2024
Member Society for Epidemiologic Research Member	Skills	2021 - 2024

Last revised: Tuesday $22^{\rm nd}$ July, 2025