

Education

- **PhD Student** | *Epidemiology, Biostatistics & Prevention Institute* | **University of Zurich** **Apr 2024–Present**
Title: “From single disease reductionist research to informed Machine Learning: a new research paradigm for multimorbidity”
- **Master’s Thesis** | **Harvard T.H. Chan School of Public Health** | Boston **Mar–Sep 2022**
“Geo-spatial Analysis of Immunization Coverage and Its Determinants in Ethiopia” — **grade 100 %**
- **MSc in Statistics** | **ETH Zürich** **2021–2022**
Modules: Statistical & Mathematical Modelling, Machine Learning, Bayesian Statistics, Causality, Biostatistics.
- **Training in “Human Health, Nutrition and Environment”** | **ETH Zürich** **Fall 2020**
Public Health, Epidemiology, Physiology, Biostatistics, etc.
- **Exchange Programme** | **Instituto Técnico Lisboa** | Lisbon **2019–2020**
Applied Math & Engineering, Computer Science, Public Health, Epidemiology, Economy.
- **BSc in Engineering** | **EPFL** | Lausanne **2017–2020**
Foundation in mathematics, computer science, biology, physics, chemistry and engineering.

Research & Work Experience

- **Doctoral Research** | *Epidemiology, Biostatistics & Prevention Institute* | **University of Zurich** **Apr 2024–Present**
 - Application of trial emulation framework to large real-world HIV data from North-America.
 - Supporting the development and validation of generative AI methods for causal inference using real-world data.
 - Assessing the impact of health interventions using routine & survey data from Sub-Saharan African countries (SSA).
 - Visiting Student | **Harvard T.H. Chan School of Public Health** | remote/in-person (Boston) **Apr 2024–Present**

Teaching Experience:

- Delivered lecture hours & ran practical exercise sessions in *Statistical Methods for Epidemiology & Computer Science*.
- Supervision of 2 Master’s theses in *Statistical Modeling for Epidemiology*.
- **Research Consultant (part-time)** | **AMREF Ethiopia** **Dec 2024–May 2025**
Developing a SDG-3 Acceleration Plan in Ethiopia | remote/in-person (Addis Ababa).
- **Research Consultant (part-time)** | **Imperial College London** **Aug–Dec 2024**
Assessed value for money of school-feeding programmes in Nigeria | remote.
- **Research Scholar** | **Harvard T.H. Chan School of Public Health** | Boston **Mar 2022–Mar 2024**
 - Technical lead in epidemiology projects (data management, modelling, biostatistical/geospatial analysis).
 - Led analyses of public policy; organised high-level seminars with governments & NGOs.
 - Projects: immunisation coverage & TB-service access; cost-benefit of school-feeding in 8 SSA countries.
- **Guest Researcher** | **Ethiopian Public Health Institute** | Addis Ababa **Jun 2022 & Jun 2023**
- **Guest Researcher** | **World Food Programme** | Lilongwe & Abidjan **Jan–Feb 2023**
- **Semester Project** | **ETH Zürich / University of Zurich** | Zürich **Fall 2021**
Machine-learning & survival models for chronic opioid-use prediction.

Awards & Grants

- **Best Published PhD Article in Public Health** — 2 000 CHF, **Swiss School of Public Health (SSPH+)** **2025**
- **GRC Travel Grant** — 2 000 CHF, “Applied causal inference on Ethiopian data”, **University of Zurich** **2025**

Bibliography

Peer-Reviewed Articles

- **T Forzy**, L Tesfaye, F Getnet, *et al.* “Assessing the Geographic and Socioeconomic Determinants of Vaccine Coverage in Ethiopia: A Spatial and Multistage Analysis at the District Level”, **Vaccine** (2025)
- F Getnet, **T Forzy**, L Tesfaye, *et al.* “Inequalities in Tuberculosis Control in Ethiopia: A District-Level Distributional Modelling Analysis”, **Tropical Medicine & International Health** (2025)
- L Tesfaye, **T Forzy**, F Getnet, *et al.* “Estimating Immunization Coverage at the District Level: A Case Study of Measles and Diphtheria-Pertussis-Tetanus Vaccines in Ethiopia”, **PLOS Global Public Health** (2024)
- U Held, **T Forzy**, A Signorell, *et al.* “Development and Internal Validation of a Prediction Model for Long-Term Opioid Use: Analysis of Insurance Claims Data”, Editors’ Choice, **PAIN** (2022)

Published Reports

- “Value for Money of School Feeding Programs in Namibia” | Working Paper, School Meals Coalition (2025)
- “Value for Money of School Feeding Programs in Burundi” | Working Paper, School Meals Coalition (2025)
- “Value for Money of School Feeding Programs in Malawi”, UNESCO – Health & Education Resource (2024)
- “Value for Money of School Feeding Programs in Ethiopia”, UNESCO – Health & Education Resource (2024)

Conferences & Symposiums

- “Comparative Effectiveness of ACEIs and ARBs for Cardiovascular Disease Prevention in People Living with HIV”. Causal Inference in the Health Sciences — *University of Zurich & UniFR*, Zurich (Switzerland). Mar 2025
- “Assessing the Multisectoral Returns of School Meals Programmes”. Regional Conference of ECOWAS Member States on School Feeding Based on Local Production — *World Food Programme & ECOWAS*, Dakar (Senegal). Oct 2023
- **Technical Expert** for KEPT (CERFAM): technical review of food-security and nutrition good practices across Africa in collaboration with the Government of Côte d’Ivoire and the *World Food Programme* (2024)

Skills

Technical

- Statistical modelling in **R**, **Python**, **Matlab**, **C++** (causal inference, time-series, biostatistics, spatial statistics)
- Data management & analysis: **SQL**, Excel, introductory GIS
- Scientific writing: \LaTeX , Markdown, MS Word

Languages

French (native) • English (fluent) • Portuguese (B1) • German (B1)