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Tom Forzy

PhD Student

Education

- **PhD student** — *Epidemiology, Biostatistics and Prevention Institute* — University of Zürich **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**
Title: "Geo-spatial analysis of immunization coverage and its determinants in Ethiopia" - Grade 100%.
- **Master of Science in Statistics** — *ETH Zürich* **2021-2022**
Relevant Modules:
 - Statistical Modeling (Statistical Regression, Machine Learning, Bayesian statistics)
 - Mathematical Statistics (Likelihood inference, Introduction to Causal Inference)
 - Applied Statistics (Analysis of Variance, Bio-Statistics, Clinical Statistics, Spatial Statistics, Time Series)
- **Program in "Human Health, Nutrition and Environment"** — *ETH Zürich* **2020-2021**
Relevant Modules: Public Health, Epidemiology, Translational Science, Physiology & Anatomy, Bio-statistics, etc.
- **Exchange program** — *Instituto Técnico Lisboa* — Lisbon **2019-2020**
Relevant Modules in Applied Math & Engineering, Computer Science, Public Health, Epidemiology & Environmental Sciences.
- **Bachelor of Science in Engineering** — *EPFL* — Lausanne **2017-2020**
Relevant Modules:
 - Math & Computer Science: Algebra, mathematical/numerical analysis, etc.
 - Physics, Chemistry & Engineering: Thermodynamics, Mechanics, Electromagnetism, Organic Chemistry, etc.
 - Biology: Cellular / Molecular biology, Genetics / Genomics, Introduction to laboratory research, etc.

Research and Work Experience

- **Research Scholar** — *Harvard T.H. Chan School of Public Health* — Boston (USA) **Mar 2022-Present**
 - Technical lead in Global Health research projects.
Data-Management and Analysis, Mathematical modeling, Statistical modeling, Geospatial analysis
 - Economic analysis of public policy.
 - Seminar organization and leadership in high-level meetings with partners from governments, NGOs, and international organizations.

MAIN PROJECTS:

 - * Geo-spatial analysis of routine immunization coverage in Ethiopia.
 - * Investigating the access to tuberculosis screening services in Ethiopia.
 - * Analysis of investments in school feeding programs in 8 Sub-Saharan African countries:
Côte d'Ivoire, Burundi, Malawi, Niger, Ethiopia, Mozambique, Namibia, Sierra Leone.
- **Guest researcher** — *Ethiopian Public Health Institute* — Addis Ababa (Ethiopia) **Jun 2022 & Jun 2023**
Data-collection and engagement with local partners.
- **Guest researcher** — *World Food Programme* — Lilongwe (Malawi) & Abidjan (Côte d'Ivoire) **Jan-Feb 2023**
Data-collection and engagement with local partners.
- **Semester Project** — *ETH / UZH - Zürich* (Switzerland) **Fall 2021**
Bio-statistics in drug surveillance (Machine Learning & Survival Analysis); lead of data analysis and statistical modeling for research on chronic opioid use and health outcomes.
- **Term Paper** — *ETH / EAWAG* — Zürich (Switzerland) **Fall 2020**
Literature review on Legionellosis outbreaks; evaluation of factors explaining seasonality patterns.
- **Teaching assistant** — *EPFL* — Lausanne (Switzerland) **Fall 2018**
Teaching assistant for first-year students in informatics: "Information, Calcul et Communication".

Bibliography

- 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* **2024**
- F Getnet, **T Forzy**, L Tesfaye, et al. Optimizing health extension workers' task-shifting to improve tuberculosis case detection and treatment in Ethiopia, *SPECIAL BULLETIN*, 41 **2023**

Conference Presentations

- **Tom Forzy**. Assessing the multisectoral returns of School Meals Programmes. Regional Conference of ECOWAS Member States on School Feeding Based on Local Production. World Food Programme of the United Nations & ECOWAS. Dakar (Sénégal). **Oct 2023**

Scientific collaborations

- Participation in the Communities of Practice of the **Research Consortium for School Health and Nutrition**. Support in the development of a White paper: "School Meals and Food Systems: Rethinking the consequences for climate, environment, biodiversity and food sovereignty". *2023 United Nations Climate Change Conference*. Accessible at: <https://doi.org/10.17037/PUBS.04671492> **2023-Present**
 - **Technical expert** for KEPT(CERFAM): Technical review of good practices in food security and nutrition in Africa as part of a collaborative effort between the Government of Côte d'Ivoire and WFP. **2024-Present**
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