

Yalemzewod Gelaw

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SUMMARY

I am a biostatistician with proficiency in key tools such as R, SQL, Python, and Power BI. I have a proven track record of effectively managing large and complex datasets, predictive modelling, data integration, and pipeline development. With over 7 years of experience in proficient data handling in academic and research environments, I have honed my skills and expertise for better data-driven decision-making.

SKILLS

- Programming: R and Python
- Data management & analysis: RStudio, Panda, SQL
- Data visualization: Power BI, MS Excel, ggplot, shiny, seaborn, matplotlib
- Communication & Negotiation
- Structural Thinking & Problem-Solving
- Scientific writing
- Leadership

EXPERIENCE

Data analyst and research | Telethon Kids Institute | May 2021 - Present, Perth, AU

- Developed four pipelines for the annual production of global malaria burden estimates.
- Managed climate and health service datasets to predict malaria risk transmission with the Bayesian Framework.
- Designed, built, and maintained automated systems for surveys and surveillance data gathering, transforming and integration.
- Presented and published outputs in scientific publications, reports, and educational materials.
- Collaborated with international stakeholders and provided support in utilizing local data for decision-making.
- Involved in training manual preparation and conducted a training session on data management and spatial analysis for 50+ participants.
- Led data extraction, cleaning, manipulation, and cross-validation for 42 data points.
- Provided technical support to research assistants, improving team productivity.

Data analyst and research | University of New South Wales | March 2020 - May 2021, Sydney, AU

- Developed, documented, and implemented data cleaning, analytics, and reporting for five projects with four years of longitudinal data points.
- Collaborated and led data cleaning, transformation, data integration and analysis of four datasets, resulting in successful publications.
- Applied decision tree analysis using a machine learning algorithm to identify the influential risk factor using the *R caret* package.
- Provided statistical and research design and support to clinicians and PhD students to utilize data for action.

Epidemiologist | Queensland Department of Health | September 2019 - February 2020, Brisbane, AU

- Analyzed routine surveillance data to provide program recommendations.
- Offered analytical support for project planning and program evaluation.
- Conducted monitoring and surveillance activities, including data collection, management, and analysis.
- Utilized ETL process to extract reportable diseases, examined and visualized data to identify patterns on maps for monitoring.

Lecturer | The University of Gondar | September 2013 - July 2016, Gondar, Ethiopia

- Delivered biostatistics courses to undergraduate and postgraduate health sciences students.
- Mentored and supervised Master of Public Health by research health sciences students.
- Led fieldwork students in community professional practices.

EDUCATION

PhD in Epidemiology and Biostatistics, The University of Queensland (2016 – 2020)

Thesis: Towards sustainable TB control in Ethiopia—profiling high-risk geographical areas using spatial modelling

Key skills developed: Mathematical modelling, data visualization, statistics, spatial modelling, and scientific writing.

MPH in Epidemiology and Biostatistics, The University of Gondar (2011 – 2013)

Thesis: Effect of residence on mothers' health care seeking behaviour for common childhood illness in Northwest Ethiopia: a community-based comparative cross-sectional study.

Key skills developed: Data analysis, survey data management, and scientific writing.

BSc in Environmental Health

Debub University • Hawassa, Ethiopia • 2006

PUBLICATIONS

Over 30 peer-reviewed publications, with 15 first and senior-author papers. Full list available on [Google Scholar](#).

For conference presentations, grants and awards please review my [webpage](#)

PROJECT PORTFOLIO

[MS Excel dashboard](#)

R and Python programming for Data Science ([GitHub](#))