

Yalemzewod Gelaw

RESEARCH OFFICER

Telethon Kids Institute, Perth, Australia

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Education

University of Queensland

PHD IN EPIDEMIOLOGY

- Thesis: Towards sustainable TB control in Ethiopia—profiling high-risk geographical areas using spatial modelling.
- Studied courses include regression analysis and advanced epidemiology and biostatistics.

Brisbane, Australia

July.2016 - July.2020

Gondar University

MPH IN EPIDEMIOLOGY AND BIOSTATISTICS

- Thesis: Effect of residence on mothers' health care seeking behavior for common childhood illness in Northwest Ethiopia: a community based comparative cross-sectional study
- Studied a broad range of courses covering many aspects of public health, epidemiology and biostatistics.

Gondar, Ethiopia

Sept.2011 - July. 2013

Debab University

BSC IN ENVIRONMENTAL HEALTH SCIENCE

- Studied a broad range of public health courses.

Hawassa, Ethiopia

Sept. 2002 - July 2006

Professional Experiences

RESEARCH AND TEACHING EXPERIENCE

Malaria Atlas Project (MAP), Telethon Kids Institute

RESEARCH OFFICER

- Assisting in data management, analysis, modelling and research, with expertise in spatio-temporal modelling.

Perth, Australia

May.2021 - Present

University of New South Wales

RESEARCH ASSOCIATE

- Involved in data management, analysis, modelling and research, with expertise in longitudinal data analysis and machine learning.

Sydney, Australia

March.2020 - May.2021

University of Queensland

SESSION ACADEMICS

- Sessional teaching of Public Health, Epidemiology and Biostatistics courses to undergraduate university students.

Brisbane, Australia

Sept.2017 - May.2018

University of Gondar

LECTURER

- Teaching, research & community service.

Gondar, Ethiopia

Sept.2013 - Jun.30 2016

INDUSTRY EXPERIENCE

In addition to my academia experience, I have also worked in the healthcare industry in various roles. These roles include Junior Environmental Health Officer, Health Centre Head, Program Officer, and Epidemiologist, with experience working in both Ethiopian and Australian Health Ministries.

Queensland Health, Metro North Public Health Unit

EPIDEMIOLOGIST

- Assist the communicable disease unit with statistical analysis

Brisbane, Australia

Sept.2019 - Feb.2020.

Ethiopia Ministry of Health, Amhara Regional Health Bureau

JUNIOR ENVIRONMENTAL HEALTH OFFICER

- My experience includes coordinating community health extension programs, conducting risk assessments, and investigating outbreaks

West Gojjam, Ethiopia

Sept.2006 - Jun.2011.

Research output

PRESENTATIONS

- 2022 **Geostatistical analysis:** Invited speaker on Geospatial analysis for point data
<https://sctravelmedconference.com/speakers-2022/>
- 2019 **Poster presentation: Districts of HIV clustering in Ethiopia: 2015-2017:** 11th European Congress on Tropical Medicine and International Health.
<https://espace.library.uq.edu.au/view/UQ:56e0df8>
- 2019 **Poster presentation: Epidemiology of tuberculosis and HIV coinfection and its collaborative services towards ending the TB epidemic in Ethiopia:** 68th Annual Meeting of the American Society for Tropical Medicine and Hygiene.
<https://doi.org/10.4269/ajtmh.abstract2019>
- 2017 **Oral presentation: The Effect of Climate and Altitude Variability on Tuberculosis: A Systematic Review:** ISEE Conference.
<https://ehp.niehs.nih.gov/doi/abs/10.1289/isee.2017.2017-313>

PUBLICATIONS (SELECTED)

1. Chen, Y.-Y., & Assefa, Y. (2021). The heterogeneity of the COVID-19 pandemic and national responses: An explanatory mixed-methods study. *BMC Public Health*, 21(1).
2. KA, A., YA, G., DM, F., DN, K., YA, M., H, G., MM, B., AA, A., MD, M., BA, D., S, A., A, A., AA, A., WM, B., & Y, K. (2021). COVID-19 in ethiopia: A geospatial analysis of vulnerability to infection, case severity and death. *BMJ Open*. <https://doi.org/10.1136/bmjopen-2020-044606>
3. Kassa, G. M., Tadesse, A., Gelaw, Y. A., Alemayehu, T. T., Tsegaye, A. T., Tamirat, K. S., & Akalu, T. Y. (2020). Predictors of mortality among multidrug-resistant tuberculosis patients in central ethiopia: A retrospective follow-up study. *Epidemiology and Infection*, 148. <https://doi.org/10.1017/s0950268820002514>
4. YA, G., Y, A., RJ, S. M., M, D., W, T., PW, D., & G, W. (2020). TB and HIV epidemiology and collaborative service: Evidence from ethiopia, 2011-2015. *HIV/AIDS (Auckland, N.Z.)*. <https://doi.org/10.2147/hiv.s284722>
5. Assefa, Y., Woldeyohannes, S., Gelaw, Y. A., Hamada, Y., & Getahun, H. (2019). Screening tools to exclude active pulmonary TB in high TB burden countries: Systematic review and meta-analysis. *The International Journal of Tuberculosis and Lung Disease*, 23(6), 728–734. <https://doi.org/10.5588/ijtld.18.0547>
6. Gelaw, Y. A., Magalhães, R. J. S., Assefa, Y., & Williams, G. (2019). Spatial clustering and socio-demographic determinants of HIV infection in ethiopia, 2015/2017. *International Journal of Infectious Diseases*, 82, 33–39. <https://doi.org/10.1016/j.ijid.2019.02.046>
7. Gelaw, Y. A., Gelaw, Y. A., Magalhaes, R. J. S., Assefa, Y., & Williams, G. (2019). EPIDEMIOLOGY OF TUBERCULOSIS AND HIV COINFECTION AND ITS COLLABORATIVE SERVICES TOWARDS ENDING THE TB EPIDEMIC IN ETHIOPIA. *The American Journal of Tropical Medicine and Hygiene*.
8. A, M., MG, G., & YA, G. (2019). Willingness to pay for community-based health insurance and associated factors among rural households of bugna district, northeast ethiopia. *BMC Research Notes*. <https://doi.org/10.1186/s13104-019-4091-9>
9. Sisay, M. M., Ayele, T. A., Gelaw, Y. A., Tsegaye, A. T., Gelaye, K. A., & Melak, M. F. (2018). Incidence and risk factors of first-line antiretroviral treatment failure among human immunodeficiency virus-infected children in amhara regional state, ethiopia: A retrospective follow-up study. *BMJ Open*, 8(4), e019181. <https://doi.org/10.1136/bmjopen-2017-019181>
10. Y, A., Y, A., S, W., Y, H., & H, G. (2018). 3-month daily rifampicin and isoniazid compared to 6- or 9-month isoniazid for treating latent tuberculosis infection in children and adolescents less than 15 years of age: An updated systematic review. *The European Respiratory Journal*. <https://doi.org/10.1183/13993003.00395-2018>
11. M, A., Y, A., F, G., & D, J. (2018). Factors affecting the utilization of xpert MTB/RIF assay among TB clinic health workers in addis ababa. *Journal of Clinical Tuberculosis and Other Mycobacterial Diseases*. <https://doi.org/10.1016/j.jctube.2018.06.007>
12. GD, M., HF, C., YA, G., & D, L. (2018). The role of smoking in the relationship between intimate partner violence and age at natural menopause: A mediation analysis. *Women's Midlife Health*. <https://doi.org/10.1186/s40695-017-0031-9>
13. Gebrezgabher, B. B., Kebede, Y., Kindie, M., Tetemke, D., Abay, M., & Gelaw, Y. A. (2017). Determinants to antiretroviral treatment non-adherence among adult HIV/AIDS patients in northern ethiopia. *AIDS Research and Therapy*, 14(1). <https://doi.org/10.1186/s12981-017-0143-1>
14. Zenebe, C. B., Adefris, M., Yenit, M. K., & Gelaw, Y. A. (2017). Factors associated with utilization of long-acting and permanent contraceptive methods among women who have decided not to have more children in gondar city. *BMC Womens Health*, 17(1). <https://doi.org/10.1186/s12905-017-0432-9>

15. Chekol, D. A., Biks, G. A., Gelaw, Y. A., & Melsew, Y. A. (2017). Exclusive breastfeeding and mothers' employment status in gondar town, northwest ethiopia: A comparative cross-sectional study. *International Breastfeeding Journal*, 12(1). <https://doi.org/10.1186/s13006-017-0118-9>
16. Kifle, D., Azale, T., Gelaw, Y. A., & Melsew, Y. A. (2017). Maternal health care service seeking behaviors and associated factors among women in rural haramaya district, eastern ethiopia: A triangulated community-based cross-sectional study. *Reproductive Health*, 14(1). <https://doi.org/10.1186/s12978-016-0270-5>
17. Adane, W. G., Alemie, G. A., W/yonhones, S. M., & Gelaw, Y. A. (2016). Prevalence and associated factors of khat use among university students in the university of gondar, northwest ethiopia. *Journal of Substance Use*, 22(2), 176–181. <https://doi.org/10.3109/14659891.2016.1166273>
18. Bogale, G. G., Gelaye, K. A., Degefe, D. T., & Gelaw, Y. A. (2017). Spatial patterns of childhood diarrhea in ethiopia: Data from ethiopian demographic and health surveys (2000, 2005, and 2011). *BMC Infectious Diseases*, 17(1). <https://doi.org/10.1186/s12879-017-2504-8>
19. SD, A., AW, K., & YA, G. (2017). Pertussis outbreak investigation of mekdel district, south wollo zone, amhara region, north-west ethiopia. *BMC Research Notes*. <https://doi.org/10.1186/s13104-017-2735-1>
20. A, W., S, A., YA, G., & M, A. (2017). The prevalence of impaired fasting glucose and undiagnosed diabetes mellitus and associated risk factors among adults living in a rural koladiba town, northwest ethiopia. *BMC Research Notes*. <https://doi.org/10.1186/s13104-017-2571-3>
21. Tadesse, S., Kelaye, T., & Assefa, Y. (2016). Utilization of personal protective equipment and associated factors among textile factory workers at hawassa town, southern ethiopia. *Journal of Occupational Medicine and Toxicology*, 11(1).
22. Asfaw, A. G., Koye, D. N., Demssie, A. F., Zeleke, E. G., & Gelaw, Y. A. (2016). Determinants of default to fully completion of immunization among children aged 12 to 23 months in south ethiopia: Unmatched case-control study. *Pan African Medical Journal*, 23. <https://doi.org/10.11604/pamj.2016.23.100.7879>
23. Belay, A. D., Mengesha, Z. B., Woldegebriel, M. K., & Gelaw, Y. A. (2016). Married women's decision making power on family planning use and associated factors in mizan-aman, south ethiopia: A cross sectional study. *BMC Womens Health*, 16(1). <https://doi.org/10.1186/s12905-016-0290-x>
24. Gelaw, Y. A., Senbete, G. H., Adane, A. A., & Alene, K. A. (2015). Determinants of late presentation to HIV/AIDS care in southern tigray zone, northern ethiopia: An institution based casecontrol study. *AIDS Research and Therapy*, 12(1). <https://doi.org/10.1186/s12981-015-0079-2>
25. Helelo, T. P., Gelaw, Y. A., & Adane, A. A. (2014). Prevalence and associated factors of hypertension among adults in durame town, southern ethiopia. *PLoS ONE*, 9(11), e112790. <https://doi.org/10.1371/journal.pone.0112790>
26. YA, G., GA, B., & KA, A. (2014). Effect of residence on mothers' health care seeking behavior for common childhood illness in northwest ethiopia: A community based comparative cross-sectional study. *BMC Research Notes*. <https://doi.org/10.1186/1756-0500-7-705>
27. HA, G., DN, K., DM, F., M, W., Y, K., AB, G., YA, M., H, M., KA, A., MA, A., MM, B., AT, G., YA, G., & AA, A. (2021). Risk factors for COVID-19 infection, disease severity and related deaths in africa: A systematic review. *BMJ Open*. <https://doi.org/10.1136/bmjopen-2020-044618>

Awards & Achievements

AWARDS

2022	Seed grant (AUD 15,000)	ACREME
2019	ASTMH Travel Award	ASTMH, the USA
2017	Thomas McIntyre Travel Scholarship (AUD 3000) for tuberculosis researchers	UQ, Australia
2018	HDR Travel Scholarship (AUD 2,500)	UQ, Australia

SCHOLARSHIPS

2019	Scholarship to attend an Introduction to Infectious Disease Modelling course	NIGMs, the USA
2016-2020	University of Queensland International Scholarship (UQI) for PhD study (AUD 78,000)	UQ, Australia
2011-2013	Postgraduate Scholarship Award for MPH	Amhara Regional Health Bureau, Ethiopia