

Mulubirhan Assefa Alemayohu BSc MPH PhD

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Address: Via Forlanini, 2 27100 Pavia (Italy)

EDUCATION AND TRAINING

PhD in Applied Life and Health Sciences: Epidemiology and Biostatistics, University of Verona, Italy [2022]

Thesis: DIETARY FLAVONOID INTAKE AND RESPIRATORY OUTCOMES: EVIDENCE FROM BOLD STUDY

Master of Public Health in Epidemiology, *Addis Ababa University*, Ethiopia [2013]

BSc in Environmental Health Sciences, *Haramaya University*, Ethiopia [2009]

Other Academic Qualifications (Certificate and graduate trainings)

- **GIS for Global Health**, KIT Royal Tropical Institute, 2021
- **Outreach communication and dissemination in EU projects**, University of Verona, 2021
- **Gender Equality and Gender Dimension in Research**, University of Verona, 2020
- **Residential Summer Course in Epidemiology**, European Educational Programme in Epidemiology, 2019

WORK EXPERIENCE

Researcher-RTDA/Assistant Professor

Università di Pavia, Italy [01/03/2023 – Current]

Main Responsibilities:

- Conducting and designing public health and epidemiological studies (such as the effects of the exposome on health and the role of increased biodiversity as an effect modifier)
- Participate and contribute to teaching related to Medical Statistics, Epidemiology and Global Health for undergraduate and postgraduate courses
- Developing and writing research project and grant proposals

Postdoctoral Research Fellow/Assegno di Ricerca

University of Verona, Italy [01/09/2021 – 28/02/2023]

Main Responsibilities:

- Research designed and proposal developed
- Manuscripts developed and submitted for publication

- Participated in collaborative research projects and submitted for publication
- Data management and analysis
- Prepared annual Project Plan and Deliverables
- Literature review conducted
- Scientific abstracts prepared and presented at national and international conferences

Visiting Assistant Professor

Department of International Health John Hopkins Bloomberg School of Public Health, United States [02/2020 – 08/2020]

Main Responsibilities:

- Carried out research activities as part of project investigating the association of dietary flavonoid with lung disease
- Collaborative research established with faculty and staff that enhances research network and internationalization
- Attended eligible academic activities such as lectures and seminar offered by the JHSPH

Early-Stage Researcher

University of Verona, Italy [10/2018 – 09/2021]

Main Responsibilities:

- Participated as PI and Co-PI on four public health research
- Manuscripts developed and submitted for publication
- Participated in collaborative research projects and submitted for publication
- Prepared Direct Acyclic Graphics (DAGs) and Scoping review
- Prepared Paper development Plan: Team formation, task assignment, analysis plan
- Organize and Lead Joint review meeting
- Prepared annual Project Plan and Deliverables
- Scientific abstracts prepared and presented at national and international conferences
- Attended several trainings and/or specialized courses: Gender Equality and Gender Dimension in Research, Outreach communication and dissemination in EU projects, Drug discovery Process & drug development, and conducting systematic reviews

Assistant Professor

School of Public Health, Mekelle University, Ethiopia [10/2017 – Current]

Main Responsibilities:

- Teaching postgraduate courses such as Basic and advanced Epidemiology, Research Methodology, and Public Health Surveillance:
- Supervision, advising and mentoring: I have served as Advisor and Co-Advisor for more than 10 MPH Student's Thesis, Academic mentor for two Field Epidemiology Mentees, and Senior and immediate supervisor for public health and Medical undergraduate students Team Training Programme (TTP). I have chaired the Academic Quality Assurance of one undergraduate and seven postgraduate programmes at the School of Public Health.
- Conduct Public Health Researches: I have been participated as PI and Co-PI in more than five public health research projects.
- Providing Professional Services: Participated in several national research and health policy consultancy.

Lecturer of Epidemiology

School of Public Health, Mekelle University, Ethiopia [12/2015 – 09/2017]

Main Responsibilities:

- Teaching undergraduate and postgraduate courses such as Basic Epidemiology and Research Methodology
- Supervision, coaching, and advising public health students
- Conducting public health research
- Providing professional services

Researcher (part time as Epidemiologist)

Vétérinaires Sans Frontières (VSF)-Swiss - Ethiopia Office [06/2015 – 12/2016]

Main Responsibilities:

- Prepared detail research plan such as study design selection; prepared, translate, and validate survey questionnaire/tool
- Conducted baseline and end-line survey
- Lead and supervise field work including training of data collectors, conducted pre-test the survey tool, data collection,
- Performed data entry and clean, data analysis and writeup

Lecturer of Epidemiology and Biostatistics

College of Health Science, Jigjiga University [07/2013 – 11/2015]

Main Responsibilities:

- Teaching undergraduate courses such as Epidemiology, Biostatistics, and Research Methods
- Serving as chairperson of Epidemiology and Biostatistics Unit

- Supervision, coaching, and advising
- Initiated, lead, and coordinate research projects
- Provided community services to society.

PUBLICATIONS

Peer Reviewed Journal articles

1. Di Gennaro G, Chamitava L, Pertile P, Ambrosi E, Mosci D, Fila A, Alemayohu MA, Cazzoletti L, Tardivo S, Zanolin ME. A stepped-wedge randomized controlled trial to assess efficacy and cost-effectiveness of a care-bundle to prevent falls in older hospitalized patients. *Age Ageing*. 2024 Jan 2;53(1): [https://doi.org/ 10.1093/ageing/afad244](https://doi.org/10.1093/ageing/afad244)
2. Nigusse AT, Amaha MH, Temesgen Hailu TT, Gebremariam HG, Cazzoletti L, Zanolin ME, Hailu AB, ***Alemayoh u MA***. Human anthrax outbreak and associated factors in the horrific siege of Tigray, Ethiopia. *IJID One Health*, 2023, <https://doi.org/10.1016/j.ijidoh.2023.100013>
3. ***Alemayohu MA***, Zanolin ME, Cazzoletti L, Nyasulu P, Garcia-Larsen V; GBD 2019 Sub-Saharan COPD Collaborators. Burden and risk factors of chronic obstructive pulmonary disease in Sub-Saharan African countries, 1990-2019: a systematic analysis for the Global Burden of disease study 2019. *EClinicalMedicine*. 2023 Oct 2;64:102215. <https://doi:10.1016/j.eclinm.2023.102215>
4. Abraha H, Kibreab G, Mohamedawel ME, Yonas B, Teklay GB, Tesfay H, Atakelti N, Habtamu M, Tekleab D, Haylsh T, ***Alemayohu MA*** & Alemayehu B. Clinical Profiles of Cardiovascular Diseases and Predictors of Outcome of Hospitalization in a Tertiary Teaching Hospital, Ethiopia: A Prospective Observational Study, *Research Reports in Clinical Cardiology*, 2023, 14:, 69-83, <https://doi:10.2147/RRCC.S424830>
5. Abraha H, Kibreab G, Mohamedawel ME, Yonas B, Teklay GB, Tesfay H, Atakelti N, Habtamu M, Tekleab D, Haylsh T, ***Alemayohu MA*** & Alemayehu B. Patterns of Medical Admissions and Predictors of Mortality in Ayder Comprehensive Specialized Hospital, Northern Ethiopia: A Prospective Observational Study, *International Journal of General Medicine*, 2023, 16:, 243-257, <https://doi:10.2147/IJGM.S385578>
6. Cazzoletti L, Zanolin ME, Dorelli G, Ferrari P, Dalle Carbonare LG, Crisafulli E, ***Alemayohu MA***, Olivieri M, Verlato G, Ferrari M. Six-minute walk distance in healthy subjects: reference standards from a general population sample. *Respir Res*. 2022 Apr 5;23(1):83. <https://doi:10.1186/s12931-022-02003-y>.
7. Cazzoletti, L.; Zanolin, M.E.; Tocco Tussardi, I.; ***Alemayohu, M.A.***; Zanetel, E.; Visentin, D.; Fabbri, L.; Giordani, M.; Ruscitti, G.; Benetollo, P.P.; Tardivo, S.; Torri, E. Risk Factors Associated with Nursing Home COVID-19 Outbreaks: A Retrospective Cohort Study. *Int. J. Environ. Res. Public Health* 2021, 18, 8434. <https://doi.org/10.3390/ijerph18168434>

8. Write here the dTesfay K, *Alemayohu MA*, Zenebe D, Gebremicael M, Kebede G and Gebrekirstos H. Road traffic injured patients with severe GCS and organ injury had a poor prognosis: a retrospective cohort study. BMC Public Health (2019) 19:749 <https://doi.org/10.1186/s12889-019-7100-y>
9. Bonsa B, Taffere GR, *Alemayohu MA*. Magnitude of occupational exposure to noise, heat and associated factors among sugarcane factory workers in Ethiopia. J Public Health (Berl.) (2019). <https://doi.org/10.1007/s10389-019-01070-8>
10. Bonsa B, Taffere GR, *Alemayohu MA*. Magnitude of occupational exposure to bagasse dust and associated factors among Metehara Sugarcane Factory workers, east Shoa, Ethiopia. J Public Health (Berl.) (2019) 27: 203. <https://doi.org/10.1007/s10389-018-0939-z>
11. Troeger C, Forouzanfar M, Rao PC, Khalil I, Brown A, Swartz S, Fullman N, Mosser J, Thompson RL, *Alemayohu MA*, et al: Estimates of the global, regional, and national morbidity, mortality, and aetiologies of lower respiratory tract infections in 195 countries: a systematic analysis for the Global Burden of Disease Study 2015. The Lancet Infectious Diseases. [http://dx.doi.org/10.1016/S1473-3099\(17\)30396-1](http://dx.doi.org/10.1016/S1473-3099(17)30396-1)
12. Troeger C, Forouzanfar M, Rao PC, Khalil I, Brown A, Swartz S, Fullman N, Mosser J, Thompson RL, Reiner RC, Abajobir A, *Alemayohu MA*, et al: Estimates of global, regional, and national morbidity, mortality, and aetiologies of diarrheal diseases: a systematic analysis for the Global Burden of Disease Study 2015. The Lancet Infectious Diseases. <http://dx.doi.org/10.1016/PII>
13. Fitzmaurice C, Allen C, Barber RM, Barregard L, Bhutta ZA, Brenner H, Dicker DJ, ChimedOrchir O, Rakhi Dandona, *Alemayohu MA*, et al: Global, regional, and national cancer incidence, mortality, years of life lost, years lived with disability, and disability-adjusted life years for 32 cancer groups, 1990 to 2015: A systematic analysis for the Global Burden of Disease study. JAMA Oncology. <http://dx.doi:10.1001/jamaoncol.2016.5688>
14. Kassebaum N, Kyu H, Zoeckler L, Olsen HE, Thomas K, Pinho C, Bhutta ZA, Dandona L, *Alemayohu MA*, et al: Child and Adolescent Health from 1990 to 2015. Findings from the Global Burden of Diseases, Injuries, and Risk Factors 2015 Study. JAMA Pediatric, <http://dx.doi:10.1001/jamapediatrics.2017.0250>
15. Akinyemiju T, Abera S, Ahmed M, Alam N, *Alemayohu MA*, Allen C, Al-Raddadi R, Alvis-Guzman N, Amoako Y, Al Artaman, et al: The Burden of Primary Liver Cancer and Underlying Etiologies from 1990 to 2015 at the Global, Regional, and National Level Results from the Global Burden of Disease Study 2015. JAMA Oncology. October 5, 2017. <http://dx.doi:10.1001/jamaoncol.2017.3055>

16. **Assefa, M.**, Kumie, A. Assessment of factors influencing hygiene behaviour among school children in Mereb-Leke District, Northern Ethiopia: a cross-sectional study. *BMC Public Health* **14**, 1000 (2014).
[https:// doi.org/10.1186/1471-2458-14-1000](https://doi.org/10.1186/1471-2458-14-1000)

PROJECTS

Global, national and sub-national burden of disease estimation [2023 – Current]

Project proposal approved and registered

1. Global Burden of COPD attributable to household air pollution in 204 countries and territories, 1990-2020: A systematic analysis for the Global Burden of Disease Study 2020
2. Global disease burden attributable to low intake of fruits and vegetables in 204 countries and territories, 1990-2020: a systematic analysis for the Global Burden of Disease Study 2020
3. Subnational diseases burden and attributable risk factors in Tigray region of Ethiopia, 1990–2020: analysis for the Global Burden of Disease Study 2020

Differences in the spread of COVID-19 in nursing homes (RSA) of the province of Trento: structural, welfare and medical-legal aspects

[10/2021 – 09/2022]

Sponsoring Agency: Department of Diagnostics and Public Health, University of Verona

Role: *Researcher*

Dates: 10/2021–09/2022

funding level: (Small Scale € 19,540)

Main Grant Objective: To explore the variation in the spread of COVID-19 in nursing homes (RSA) of the province of Trento: structural, welfare and medical-legal aspects

Responsibilities: *Designing and leading the research project*

Predictive modelling of impacts of climate variability on childhood pneumonia

[01/2016 - 07/2018]

Sponsoring Agency: *Mekelle University*

Role: *Principal Investigator*

Dates: 01/2016–07/2018

funding level: (Small Scale ETB 70,000)

Main Grant Objective: To develop modelling in order to predict the future impacts through characterizing changes in childhood pneumonia patterns resulting from climate change

Responsibilities: *Designing and leading the research project*

Behavioral Change for Improved Nutrition among Pastoralists (BCIN)

[03/2015 – 12/2016]

Sponsoring Agency: IFPRI- Transform Nutrition

Role: Co- Investigator

Dates: 03/2015–12/2016

Principal investigator and funding level: Lensse Gobu (US\$ 150,000)

Main Grant Objective: To measure the role of pastoral community platforms in increasing community awareness on key Maternal Infant and Young Child Nutrition (MIYCN) practices, and through this to effect positive behavioural changes

Responsibilities: Leading the Epidemiological part from questionnaires designing, on-site data collection and supervision, data entry and analysis, and writeup.

Predictors of Childhood diarrhea in Jigjiga City, Eastern Ethiopia

[01/2014 – 12/2014]

Sponsoring Agency: Jigjiga University Research Office

Role: Co- Investigator

Dates: 01/2014–12/2014

Principal investigator and funding level: Hailemichael Buzuneh (ETB 32,100)

Main Grant Objective: To investigate prevalence of diarrhoea and its determinants among Under-five years old children.

Responsibilities: Co-lead the designing, onsite data collection and supervision, data entry and analysis.

Occupational exposure and safety conditions of Garages in Jigjiga, Eastern-

Ethiopia
[01/2010 – 04/2011]

Sponsoring Agency: Jigjiga University Research Office (the first research grant in its history)

Role: Principal Investigator Dates: 01/01/2010–04/2011 funding level: (ETB 5,000)

Main Grant Objective: To assess occupational exposure and safety conditions and its associated factors in Eastern

Ethiopia

Responsibilities: designing and leading the research projects

TEACHING AND ACADEMIC SERVICE

Master Thesis Advising at School of Public Health, Mekelle University

[01/2016 – 09/2018]

Served as primary and Co-advisor for more than ten Masters' Public health students

Field Epidemiology Mentor at School of Public Health, Mekelle University

[01/2016 – 08/2018]

Served as Field Epidemiology Academic Mentor for two Field Epidemiology Mentees.

Classroom Instruction at Department of Public Health, Experimental and Forensic Medicine, Università di Pavia

2024

Global Health I

For 2nd Year Residents of The School of Specialization in Health Statistics and Biometrics; the course module is designed to provide basic knowledge and skills in the methodologies used for estimating the Burden of Disease.

2023

Global Health II

For 3rd Year Residents of The School of Specialization in Health Statistics and Biometrics; the course module is designed to provide in-depth knowledge and skills in the methodologies used for estimating the Burden of Disease (BoD) metrics.

Classroom Instruction at School of Public Health, Mekelle University

2018

PhFe8111 Advanced Epidemiology

2nd semester postgraduate course (14 MPH students); the course provides epidemiological study designs, and skills to synthesis and appraises different journal articles and health related information to produce evidence for decision-making.

2017

PHEP521 Epidemiology

1st semester postgraduate course (21 MPH students); the course explains the tools commonly used in descriptive and analytical epidemiology. It introduces the students with statistical methods in Epidemiological studies, mainly dealing with crude data analysis, statistical methods in cohort, case-control/cross-sectional/Ecological studies and data validity.

Epidemiology for Leadership in strategic information

As Trainer for Leadership in strategic information (LSI) training program Organized by Ethiopian Public Health Association in collaboration with CDC, MOH and Universities

COMH511 Epidemiology

2nd semester (10 master students) provides students with a range of epidemiological tools with practical guidance and skills in approaches for understanding the health of a population.

2016

PhFe 5026 Public Health Surveillance

1st semester (27 master students) this course introduces students with the basics of public health surveillances, surveillance system development and surveillance evaluation and management.

COMH511 Epidemiology

2nd semester (15 master and dental resident II students) provides students with a range of epidemiological tools with practical guidance and skills in approaches for understanding the health of a population.

ACADEMIC SERVICE

Department of Public Health, Experimental and Forensic Medicine, Università di Pavia

2016–Present

- Member of the Department Council
- Member of Harvey Medicine Degree Course Teaching Council

School of Public Health, Mekelle University

2016–2018

- Member, School of Public Health Council
- Coordinator, School of Public Health Academic Quality Assurance
- *Member*, Ethical Review Committee
- Member, Master Students Thesis Examiner Board (Chair & Internal Examiner)

College of Health Science, Jigjiga University

2013–2015

- Chairperson, Epidemiology and Biostatistics Unit 2010–2011
- Member, College Examination Committee

HONOURS AND AWARDS

Orange Knowledge Program Scholarship for the short course

Nuffic - Dutch organization for internationalization in education [04/2021]

Awarded to attend GIS for Global Health at the Royal Tropical Institute (KIT) in Amsterdam the Netherlands, starting 21/06/2021 until 02/07/2021

The Barbara and Richard Hall Student Award for Excellence in Nutrition Science

Center for Human Nutrition, Jhon Hopkins Bloomberg School of Public Health [05/2020]

Emerging Leaders in Nutrition Science Finalist

American Society for Nutrition (ASN) [05/2020]

The Emerging Leaders in Nutrition Science program aims to recognize the top 15% highest scoring abstracts as finalists. Abstracts were rated by more than 500 nutrition scientists.

International Mobility Grant

University of Verona [07/2019]

The PhD School in Life and Health Sciences has awarded me an International Mobility Grant based on open competition.

Early-Stage Research Fellowship (INVITE)

University of Verona [10/2018]

Selected among the top fourteen international applicants from more than 900 applications for the Innovative Verona University Interdisciplinary, Inter-sectoral and international Training Experience (INVITE) under the call

H2020-MSCA-COFUND-2016

Best Young Researcher award

College of Health Sciences, Mekelle University [07/2017]

The Research and Community Service Council at College of Health Sciences, Mekelle University nominates researchers by their category to reward based on their research achievements.

AuthorAID Travel grant

AuthorAID [07/2016]

AuthorAID Travel grant to attend the 7th African Nutrition Epidemiology Conference

Other travel grants

- 2019 - IEA-Africa Conference Bursary to attend the fifth African Regional Conference
- 2017 - International Food Policy Research Institute-Transform Nutrition Travel grants (Flight and Accommodation)
- 2017 - Ethiopian Malaria Research Network Travel grant
- 2016 - Ethiopian Public Health Association Travel Grant
- 2016 - Ethiopian Public Health Institute Travel and Accommodation to attend National Climate and Health planning workshop
- 2015.- Ethiopian Public Health Association Travel Grant

Recognition Certificate

- 2018 - Recognition, serving as reviewer for BMC Public Health
- 2015 - Certificate of Recognition, EPHA Annual Scientific Conference
- 2015 - Recognition, serving as reviewer for BMC Public Health

CONFERENCES AND SEMINARS

Scientific conference abstracts (published/in press/ accepted)

1. **Alemayohu MA**, Zanolin ME, Cazzoletti L, Garcia-Larsen V et.al: Dietary flavonoids and ventilatory function in adults from the multinational Burden of Obstructive Lung Disease (BOLD) Study. *European Respiratory Journal* 2023; 62: Suppl. 67, PA1021 [2023 ERS International Congress]
2. **Alemayohu, M.A.**; Cazzoletti, L.; Di Gennaro, G.; Garcia-Larsen, V.; Zanolin, ME. Daily flavones intake is inversely associated with chronic obstructive pulmonary disease: evidence from the BOLD study. *SISMEC Intermediate Congress 2022, Napoli, Italy, 21-22 October 2022.*
3. **Alemayohu, M.A.**; Cazzoletti, L.; Tocco Tussardi, I.; Tardivo, S.; Torri, E.; Zanolin, M.E. Risk Factors Associated with Nursing Home COVID-19 Outbreaks: A Retrospective Cohort Study. *EPIDEMIOLOGIA (GENERALE E CLINICA)*, SISMEC IX National Congress, Italy, 15-17 September 2021
4. **Alemayohu MA**, Zanolin ME, Cazzoletti L, Chamitava L, Mattioli V, Plumb J, Burney PG, Garcia-Larsen V. Flavonoid Content of Selected Foods – A Comparison of Four International Composition Tables. *Curr Dev Nutr* 2020; 4: 1155 https://doi.org/10.1093/cdn/nzaa056_002. [**Alemayohu MA** named an **Emerging Leaders in Nutrition Science Finalist**, a program of the American Society for Nutrition (ASN) to recognize the highest quality research presented by students and young investigators at NUTRITION 2020 LIVE ONLINE. Abstracts were rated by more than 500 nutrition scientists.]
5. **Alemayohu MA**, Gobu L, Legesse Y, Belay KS, Covic N: Community Platforms as Channels for Breastfeeding Behavioral Change Communication in Hard-to-Reach Pastoralist Communities: Community Based Quasi-Experimental Study. *IEA Africa regional Conference, Maputo, Mozambique, 14-17 April 2019*
6. **Alemayohu MA**, *Alemayehu B, Zenebe A, et.al*: Distribution of Monthly Pneumonia Case Correlated with Climatic Zone in Tigray Region: Ecological Study. *The 8th Malaria Research Networks Symposium, Addis Ababa, Ethiopia, 27–28 February 2017*
7. **Alemayohu MA**, Gobu L, Legesse Y, Belay KS, Covic N: Factors Associated with Breast Feeding Practice among Pastoralist Mothers in Eastern Ethiopia. *7th African Nutrition Epidemiology*

Conference, Marrakesh, Morocco, 9 – 14 October 2016. [AuthorAID Travel grant received for this abstract]

8. ***Alemayohu MA***: The Role Of Water, Sanitation and Hygiene In Agri-Health Linkage: An Integrated Approach For Improved Nutrition. ANH Academy week 1st international conference, Addis Ababa, Ethiopia, 20–24 June 2016

National and International Conference Participated

1. SISMEC IX National Congress, Italy, 15-17 September 2021
2. Association of African Universities 15th General Conferences, Jul 5-8, 2021
3. 1 Food Environment Research Network Meeting - FERNst 2020
4. SISMEC IX National Congress, Italy, 12-13 November 2020
5. European Respiratory Society (ERS) International Congress 2020
6. The American Society for Nutrition, NUTRITION 2020 LIVE ONLINE, June 1-4, 2020
7. International Epidemiological Association African 5th Regional Conference, Maputo, Mozambique, April, 2019
8. The 8th Malaria Research Networks Symposium, Addis Ababa, February 2017
9. ANEC VII, Marrakech, Morocco, October 2016
10. World Health Organization II Global Conference on Health and Climate Change, Paris, 7-8 July 2016
11. ANH Academy week 1st international conference, Addis Ababa, Ethiopia June 2016
12. EPHA 27th annual conference, Addis Ababa, Ethiopia February 2016
13. EPHA 26th annual conference, Bahir-Dar, Ethiopia February 2015
14. 2nd national conference on pastoralism, Jigjiga, Ethiopia March 2014
15. Annual research forum organized by JJU-RPO May 2011

NETWORKS AND MEMBERSHIPS

Society/Professional Association Membership

Member of:

- COST Action CA18218 European Burden of Disease Network (Since 2023)
- International Society for Environmental Epidemiology (Since 2019)
- The European Respiratory Society (ERS) (since 2019)
- International Epidemiological Association (since 2018)
- Certified member, EPICORE (since 2017)
- GBD Collaborator Network (since 2016)
- Ethiopian Public Health Association (since 2010)

PROFESSIONAL SERVICES

Leadership

- Member, ATS Program Committee for Environmental and Occupational Section (2021/22, 2022/23, 2023/24)
- Co-chair ATS 2024 Symposium Beyond tobacco: non-smoking related causes of COPD
- Invited Chair of E-Poster Sessions – ‘Risk factors for chronic lung diseases’, Air pollution as a cause of respiratory disease’ ERS VIRTUAL CONGRESS 2020, 7 – 10

Consulting/Review Services (as Expert)

- Participated in PMNCH ART Constituency Consultative meeting (2020/21)
- Participated in African Region Consultation on climate and Health (2021)
- Participated in Global Society of Tigrayan Scholars (GSTS) Strategic Action Deliverables Forum (since June 2021)
- Independent consultant for VSF-Suisse Ethiopia office to conduct baseline assessment and midterm evaluation for a project funded by EU and UN OCHA (2017)
- National Climate and Health planning consultancy workshop, Addis Ababa, Ethiopia (October/2016)
- Year-3 country level One Health strategic planning consultancy, Addis-Ababa Ethiopia (May/2016)
- IFPRI Global research flagship consultancy on Food Systems for Healthier Diet; Addis Ababa, Ethiopia (February/2016)
- Technical coordinator at Alliance Community Development Consultancy (ACDC) local firm, Jigjiga, Ethiopia (2011–2015)
- National WASH strategic plan workshop consultancy organized and funded by UNICEF and FMoH, Adama, Ethiopia, (June 2011)

EDITORIAL ACTIVITIES

Invited Peer Review Activities

- Review Editor in Life-Course Epidemiology and Social Inequalities in the Journal of Frontiers in Public Health (since 2020)
- BMC Public Health
- PLOSE ONE Journal
- Implementation Science Journal
- The East African Journal of Health Sciences
- Journal of Parasitology and Vector Biology
- Conference Abstracts for The International Society for Environmental Epidemiology

- Conference Abstracts for the American Thoracic Society

Ad Hoc Review of Proposals/Prizes

- As a reviewer for the International Science Council (ISC) in the evaluation of articles for the Frontiers Planetary Prize, Second Edition
- Abstracts Judge, ISEE 2023 Poster Awards Evaluation
- Invited Proposal evaluator, formal research project evaluation workshop, JJU-RPO, 2011