Personal Information

Mekuanint Simeneh Workie



26, Bahir Dar, Ethiopia
(+251) 918 31 17 27
mekuanintsimeneh@gmail.com

Sex Male | Date of birth 14/11/1988 | Nationality Ethiopia
Website: Linkedin/ Researchgate

Brief Bio:

I am specialized in Mathematical and Statistical modeling (Statistics). I have 8 years of experience in Statistical modeling and machine learning techniques of health data research. My specific research focuses on Bayesian methods, Count modelling, Generalized Linear Mixed Model and machine learning. I have 6 publications in peer-reviewed journals. I am a member of the Ethiopian Statistical associations. I apply statistical methods and machine learning techniques to a varied range of applications in improving public health problem.

Work Experience:

02/12/2021-till: Assistant professor in Statistics, Bahir Dar Institute of Technology-Bahir Dar University

07/08/2018-01/12/2021: Lecturer in Statistics, Bahir Dar Institute of Technology-Bahir Dar Unversity

02/04/2014–07/08/2018: Lecturer in Statistics, Debre Markos University, Ethiopia

Education and Training:

4/11/ 2021:	Higher Diploma Program in Teaching
24/10/2011–29/10/2013:	Master of Science in Mathematical and Statistical Modelling (Statistics). MASTMO is to establish a MSc programme in mathematical and statistical modelling at Hawassa University based on and linked to the existing Industrial Mathematics programme at NTNU.
15/09/2008–09/07/2011:	Bachelor of Science in Statistics, University of Gondar, Ethiopia

Honors and awards:

2022:	Received certificate of participation training on Research Methods in economics using STATA software
2021:	Received certificate of participation training on Python Basic programming and scientific computing with python

2021:	Basic Statistical Analysis Using R package Training for Selected Bahir Dar Institute of Technology Postgraduate Students and Academic Staffs
2020:	Received certificate of Data Management and Analysis using R -software Training for Selected Bahir Dar Institute of Technology Postgraduate Students and Academic Staffs
2018:	Received certificate of Statistical Data Management and Analysis Using SPSS, Training for Bahir Dar Institute of Technology Postgraduate Students and Academic Staffs
2018:	Received certificate of Statistical Data analysis using R statistical software training for Debre Markos University Academic Staffs
2017	Received certificate for providing training on R- software for academic staffs to Debre markos university
2017	Received certificate to facilitating statistical software (STATA, R and SAS) for college of medicine and health science academic staffs
2016	Received certificate of offering SPSS training to the academic staffs of the college of natural and computational sciences, Debre Markos University
2015	Received certificate of outstanding performance in teaching in the college of natural and computational science

Teaching and Research Interest

Research Interest	Bayesian methods, Count modelling, Generalized Linear Mixed Model and machine learning
Teaching	Statistical computing (R,SAS, SPSS), Statistical inference, Statistical theory distribution, Regression analysis, sampling theory, Bio-statistics and Epidemiology and Categorical data analysis ▪ Advising the student research proposal and outcomes. ▪ Design, plan and implement effective and inclusive teaching and supporting learning activities. ▪ To supervise or assist with supervision of undergraduate. ▪ To contribute to the development, planning and implementation of a high-quality curriculum. ▪ To assist in the development of learning materials, preparing schemes of work and maintaining records to monitor student progress, achievement and attendance.

Publications

1. **Workie, M.S**. and Lakew, A.M., 2018. Bayesian count regression analysis for determinants of antenatal care service visits among pregnant women in Amhara regional state, Ethiopia. *Journal of*

Big Data, *5*(1), p.7.

2. **Workie, M.S**. and Denekew, B.B, 2019. Bayesian Model with Application to a Study of dental caries, Ethiopia Journal BMC Oral health
3. **Workie, Mekuanint Simeneh**, and Abebaw Gedef Azene. Bayesian zero inflated regression model with application to under-five child mortality. *Journal of Big Data* 8.1 (2021): 1-23.
4. **Workie, Mekuanint Simeneh**, and Abebaw Gedef Azene. Bayesian negative binomial logit hurdle and zero-inflated model for characterizing smoking intensity. *Journal of Big Data* 8.1 (2021): 1-20.
5. Azene, Abebaw Gedef, **Mekuanint Simeneh Workie**, and Abiba Mihret Aragaw. Knowledge, attitude, and prevention practice towards Covid-19 in Ethiopia: systematic review and Meta-analysis. *Current Therapeutic Research* (2021):100633
6. Aragaw, Abiba Mihret, Abebaw Gedef Azene, and **Mekuanint Simeneh Workie.** "Poisson logit hurdle model with associated factors of perinatal mortality in Ethiopia." *Journal of Big Data* 9.1 (2022): 1-11.

Under Review to Publications

1. Bayesian Binary Logistic Generalized Linear Mixed Model Analysis of Factors Associated with Female Genital Mutilation in Ethiopia
2. Bayesian Model with Informative Prior Application of Institutional Delivery Service Utilization
3. Prediction of Intimate Partner Violence using Machine-learning Algorithms

Professional activities

- R-programming language laboratory manual for data mining course editing committee at Bahir Dar Institu of Technology
- Chair holder criteria committee at Bahir Dar Institute of Technology
- Quality Assurance committee at Debre Markos University
- Curriculum review committee at Debre Markos University
- Research and Community Service Committee at Debre Markos University
- Essential clinical research skills :Global Health trials Date 15-17th may 2015
- Attend annual conference at Debre Markos University research conference each year
- Member of the Ethiopian Statistical Association (ESA)
- Life Long Member of Ethiopian Red Cross Society
- Member of the Society for Eco-Tourism and Bio-diversity conservation

Skills

Personal Skills

Mother tongue(s) Amharic

Second language(s)	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	Excellent	Excellent	Excellent	Excellent	Excellent

Application software : Microsoft office Excel and Microsoft office word, Microsoft office power point

professional Software: *Latex software,* winbugs packages and general statistics packages(SPSS, R, SAS), Python

Communication: I am sociable, I appreciate aesthetics, I have no problem to communicate with anybody in position where communication is important situations where team work is essential i.e. I believe group working. I am a self-conscious person; I communicate effectively with others in my environment, understand and identify others' feelings, having highly developed empathy. I posses' problem-solving skills as well as negotiating skills. I am capable of and prefer to plan ahead, to learn from experience, adopt and implement daily acquired knowledge and skills that I need to work with young people.

Data analysis Analysis machine learning, Bayesian inference using R software,
To give the training of R software with related to the research