

TAREKEGN ARGAW

Researcher

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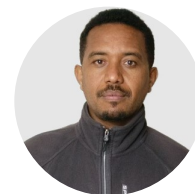
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Addis Ababa, Ethiopia

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EXPERIENCE

Researcher I

Ethiopian Institute of Agricultural Research

Apr 2020– present

Addis Ababa, Ethiopia

- Advanced designs of experiments, conduct P-rep design for early generation and large field trials .
- Conduct spatial and pedigree analysis
- Crop modeling
- Multi-environment trial (MET) data analysis using enhanced statistical models
- Training on statistical method and computing software for crop breeder
- Crop breeding trials data management
- Developments of new research proposals.
- Implementing, follow up and M&E biometrics research projects.
- Lead and manage biometrics research team
- Writing technical publications and reports

Assistant Researcher

Jimma Agricultural Research Center

Feb 2013 – Apr 2019

Jimma, Ethiopia

- Coordinating Biometry, GIS, and Agro-meteorology team
- Implementing research activities.
- Generating design of experiments for field trials.
- Managing crop breeding trials dataset
- Conducting data analysis for genotypes selection at each trial stage

PROJECTS

- Modernizing Ethiopian Research crop improvement.
- Improving accuracy of genotype evaluation in perennial crop breeding research through statistical and ICT solutions.
- Basic and advanced data management and analysis manual for training and reference using R software.
- Estimation of soil variability, optimum plot size and shapes and number of replications for Soya Bean.
- Improving precision of trials in experiments at national agricultural research system.
- Analysis of repeated measure data from livestock research .
- Integrated Analysis Methods and R Scripts for population genetic data.

PROFESSIONAL MEMBERSHIP

- Member of International Biometric Society (IBS)
- Member Ethiopian Statistical Association (ESA)
- Member of Crop Science Society of Ethiopia (CSSE)

PUBLICATION

UNDER REVIEW MANUSCRIPT AND PREPRINTS

RESEARCH INTEREST

- Improving multi-environment trials (MET) data analysis using enhanced statistical models
- Computer programming, Mixed model statistics, Experimental design
- Crop Growth Modeling

ACHIEVEMENTS

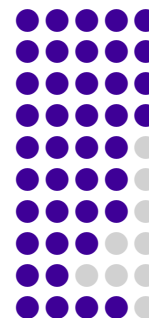
Fitting enhanced statistical models to unbalanced large dataset using ASreml-R

Coordinator of biometrics Research Team at EIAR

Statistical methods and software training for agricultural researchers

PROGRAMMING SKILL

R
ASReml-R
SAS
SPSS
STATA
LaTeX
Genstat
Python
AcrGIS
Minitab



LANGUAGE

Amharic
English



EDUCATION

Master of Science with Honors in Biostatistics

Jimma University

2014 – 2016

Ethiopia

@ ero@ju.edu.et

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Bachelor of Science in Statistics

Addis Ababa University

2009 – 2011

Ethiopia

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- Multi-environment Trials Data Analysis: Linear Mixed Model-based Approaches Using Spatial and Factor Analytic Models , at Frontiers
- Factor Analytic Mixed Model Analysis for Multi-Environmental Trials data, at Ethiopian Journal of Crop Science

PUBLISHED ARTICLES

- **Argaw T**, Fenta BA, Assefa E. (2024). [Application of factor analytic and spatial mixed models for the analysis of multi-environment trials in common bean \(*Phaseolus vulgaris* L.\) in Ethiopia](#). Plos one, 19(4), e0301534
- Tesfaye K, Alemu T, **Argaw T**, de Villiers S, Assefa E. 2023. [Evaluation of finger millet \(*Eleusine coracana* \(L.\) Gaertn.\) in multi-environment trials using enhanced statistical models](#). Plos one 18(2), e0277499;
- **Woldemeskel TA**, Fenta BA. 2022. [Spatial Mixed Model Analysis in Varietal Selection Field Trials](#). Ethiopian Journal of Crop Science 9(2), print ISSN: 2072-8506
- **Argaw T**, Taye G, Bedada D, Ayano A. 2018. [Longitudinal Analysis of Arabica Coffee Bean Yield: Application of Linear Mixed Model for Clustered Longitudinal Data](#). Acad. Res. J. Agri. Sci. Res. 6(7), pp. 370-379; <http://doi.org/10.14662/ARJASR2018.049>
- **Argaw T**, Taye G. 2018. [Genotype by Environment Interaction Analysis of Arabica Coffee Bean Yield](#). Acad. Res. J. Agri. Sci. Res. 6(8), pp. 509-519; <http://doi.org/10.14662/ARJASR2018.090>
- Belete Y, **Argaw T**. 2015. [Genetic Variation and Extent of Heritability of the Various Agronomic Traits of Arabica Coffee \(*Coffea Arabica* L.\) Genotypes Grown across different Environments in Ethiopia](#). Greener J. Agron. Forestry Horti. 3(1), pp. 001-010; <http://doi.org/10.15580/GJAFH.2015.1.061614271>
- Woldu Z, Mohammed A, Belew D, Bekelle Y, **Argaw T**. 2015 [Combined Effects of 1-MCP and Export Packaging on Quality and Shelf-life of Cavendish Banana \(*Musa sp.*\)](#). Food Science and Quality Management 45, pp. 62-77; <https://doi.org/10.7176/FSQM>
- Adane ZW, Ibrahim AM, Yohannes DB, **WoldeMeskel TA**. 2015 [Effect of traditional kerosene smoking and ethrel on ripening, shelf life and quality of Cavendish banana \(*Musa sp.*\)](#). African Journal of Agricultural Research 10(50), pp. 4570-4583; <http://doi.org/10.5897/AJAR2015.10299>

CERTIFICATES

- Enhance Use of Climate Services for Agricultural Research and Development: Navigation and Use of ENACT Maproom
📅 February 17-21, 2020 📍 EIAR, Ethiopia
- Participated as Trainer on a Three Days R for A Biologist Training Workshop
📅 November 16-18, 2020 📍 EBTi/Ethiopia
- Manage Soil and Agronomy Data Portal
📅 November 2-4, 2020 📍 EIAR, Ethiopia
- Participated as Trainer on Basic Statistic and Computing Software
📅 January 18- 19, 2018
📍 Yabello Pastoral and Dry Land Agricultural Research Center/Ethiopia
- Panel Data Modeling and Impact Evaluation Methods Using STATA
📅 June 14-23, 2017 📍 EIAR, Ethiopia
- Introduction to Geographical Information System (GIS)
📅 March 18-22, 2013 📍 Jimma Universty,Ethiopia

STRENGTHS

Communication Skills

Comited and hardworking

Computer skills

Transferable skills

Attention to detail

Patience

Reporting skill

REFERENCES

Dr. Ermias Betemariam

@ e.betemariam@cifor-icraf.org

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Land health scientist, Land and soil health theme,CIFOR-ICRAF

Adjunct Assistant Professor of Natural Resource and Computational Sciences, Addis Ababa University

Dr. Berhanu Amsalu Fenta

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✉ 436 Adama, Ethiopia

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Senior Researcher

Coordinator, National Lowland Pulse Research Program

Ethiopian Institute of Agricultural Research

Adama, 📍 Ethiopia

Dr. Girma Mamo Diga

@ mamogirma2018@gmail.com

✉ 2003 Addis Ababa

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Senior Researcher

Director, Climate, Geospatial and Biometrics Research Directorate(CGBRD)

Ethiopian Institute of Agricultural Research

Addis Ababa, 📍 Ethiopia

Dr. Girma Taye Awoke

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✉ 9086 Addis Ababa

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Associate Professor of Biostatistics, School of Public Health

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