

# **SAMUEL ABERA ZEWDIE**

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+ 251-929-194934

## **Education and Qualifications**

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2014 – **Master of Philosophy in Demography** -University of Cape Town

Dissertation: “Spatial Analysis of Child Mortality in South Africa in Relation to Poverty and Inequality: Evidences from the 2011 Census”

2008 – **Master of Science in Statistics** - Addis Ababa University

Dissertation: “Demand of Electricity in Ethiopia as Related to Consumption, Population Size and GDP- a Multivariate Time Series Analysis”

2004 –**Bachelor of Science in Statistics and Computer Science** - Addis Ababa University

## **Skills**

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- ***Data management and database administration***
  - Advanced level data management skill
  - Data cleaning, database security and data quality monitoring
  - Designing, creating and maintaining databases
  - Spatial data management (including raster data)
  - Well familiar with Oracle, SQL-Server, Access and other database tools
- ***Statistical Analysis***
  - Classical and Advanced statistical methods
  - Spatial data analysis and Mapping
  - Longitudinal, Multilevel and Survival data analysis
  - Software: Stata, SPSS, ArcGIS, R, SAS, and many other packages
- ***Demographic and health studies***
  - Analysis of demographic changes
  - Population projection and modelling
  - Family planning
  - Disease mapping, health economics, ehealth
- ***Research and survey sampling***
  - Socioeconomic Survey design- including sampling and questionnaire design
  - Survey coordination
  - Impact Evaluation
  - Designing instruments for data collection, editing, entry and processing

- **Programming**
  - Programs for data analysis, database management or software development
  - Well familiar with SQL & PL/SQL, Python, C#, C++ and Java
- **Project management**
  - Program planning; Monitoring and evaluation; Linear programming; Network analysis
  - Familiar with MS-Project and Primavera6

## Work Experience

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**1. Research Officer** (since July 2015): *Environment and Climate Research Center, Ethiopian Development Research Institute (EDRI)*

Proposal Development; Policy and Research Review; Survey coordination; Data management; Monitoring data quality; Developing Survey tools; Data analysis; Econometric modelling; GIS and Mapping; Analytical report writing;

**2. Survey Coordinator** (March-April 2015) – *World Health Organization (WHO)*

Coordinate the 2015 Global Survey on eHealth in Ethiopia.

**3. Research Assistant** (Feb – Nov 2014) - Centre for Acturial Research, University of Cape Town

Literature review on measurement of poverty; poverty analysis; Teaching assistant for Biostatistics course.

**4. Data Manager** (Sept 2011 - Feb 2013) – *EfD Ethiopia (Environmental Economics Policy Forum), EDRI*

Data management; Survey coordination; Monitoring data quality; Reviewing questionnaires; Developing data entry applications; Descriptive, and predictive analysis of data; Econometric modelling; Simulation; Research assistant.

**5. Lecturer** (Sept 2009 – Dec 2012) – *Department of Statistics, Adama Science & Tech. University*

*Courses delivered:* Engineering Statistics, Sataistical Computing, Sampling and Survey Design, Regression Analysis, Econometrics, Medical Statistics, Statistical Principles of Experimental Design, Probability and Statistics.

**6. Statistician** (Jan 2010 – Aug 2011) – *Marketing Department, Equatorial Business Group*

Identify, collect and organize data for various economic sectors (customs, construction, energy, transport, agriculture etc); Develop marketing database system; Planning and conducting market research; Conducting customer satisfaction surveys; Analysis of marketing data; Report writing

**7. Database Administrator** (Aug 2007 – Dec 2009) : *ICT Dept, Ethiopian Electric Power Corp.(EEPCO)*

Monitoring the performance of databases; creating and maintaining databases; ensuring the security of the databases; querying; writing database objects such as triggers, procedures, functions and programs using

PL/SQL; taking database backups; importing and exporting data among databases; helpdesk support.

**8. Programmer** (Jun 2006 – July 2007): *MIS Project, Ethiopian Electric Power Corporation*

Balancing daily billing transactions and posting them into the Accounting System (Aggreso); design standard Oracle reports; Preparing non-standard billing reports;

**9. Jr. Statistician** (Sept 2004 – May 2006) – *Personnel Dept, Ethiopian Electric Power Corp.*

Maintaining personnel databases; Updating personnel information; Exporting personnel data to payroll system; Preparing periodic and non-periodic manpower reports for the management and other stakeholders; assist the staffing division manager.

**10. Instructor** (Feb 2007 – Feb 2008) – *St. Mary's University College*

*Courses delivered:* Probability theory, and Introduction to Inferential Statistics.

**11. Instructor** (Feb 2005 – Mar 2007) – *MicroLink Information Technology College*

*Courses delivered:* Business Statistics, College Mathematics, Calculus, Probability theory, Introduction to Statistics, Business Mathematics.

**12.** Statistical software training (Various time): Stata, SPSS, EViews at the Ethiopian Statistical Association and other institutions.

**13.** Data analysis works: for various researchers at various time

**14.** Survey data collection (July – Aug 2003): *UNICEF and Michael Dejene Public Health Consultance*

**15.** Survey data diting, coding and verification (July - Sept 2002): Central Statistical Agency of Ethiopia

## **Trainings**

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**Training title**

Introduction to R-INLA package

Panel Data Analysis using Stata

Complex Sample Survey Data Analysis

Social Welfare Measurement

Business Survey Design

Longitudinal Data Analysis

Game Theory and Industrial Organizations

Applied Micro-econometrics

Statistical Packages SAS, SPSS & STATA

Oracle 10g Database Administration

Monitoring & Evaluation

Leadership and Management

SQL Programming

System Development & Project Management

**Institution and place**

Wits University, Johannesburg

UCT, Cape Town

UCT, Cape Town

UCT, Cape Town

International Association of Survey Statisticians, Durban

International Statistical Institute, Durban

EDRI, Addis Ababa

EDRI, Addis Ababa

Ethiopian Statistical Association, Addis Ababa

Ora-Tech Consulting, Addis Ababa

ESA and UNICEF, Addis Ababa

Vision Ethiopia Congress for Democracy, Addis Ababa

EEPCO on job training, Addis Ababa

EEPCO, Addis Ababa

ISO 2008 Quality Management System (QMS)  
Advanced Pedagogy  
Leading a High Performing Team

Ethiopian Quality and Standards Authority, Addis Ababa  
GTZ & AASTU, Addis Ababa  
International Leadership Institute, Addis Ababa

## Publications

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- Zenebe Gebre gziabher, Alemu Mekonnen, Rahel Deribe, Samuel Abera, and Meseret Molla. *Crop-Livestock Inter-linkages Climate Change Implications for Ethiopia's Agriculture: A Richardsonian Approach*. Environment for Development Discussion Paper Series. December 2013
- Samuel Zewdie, Visseho Adjewanou. "Spatial Analysis of Child Mortality in South Africa: Evidences from the 2011 census". Journal of Spatial and Spatio-Temporal Statistics (under review)

## Conference Presentations

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- Population Association of America (PAA) Poster presentation, San Diego, CA, April 2015: Spatial Analysis of Child Mortality in South Africa: Evidences from the 2011 Census.
- Sub-Saharan Conference on Spatial and Spatio-temporal Statistics, Johannesburg, November 2014: Spatial Analysis of Child Mortality in South Africa: Evidences from the 2011 Census.
- 59<sup>th</sup> Conference of ISI, Hong Kong, August 2013: Performances of Bilinear Time Series Models: Applications with Demographic Data.,
- 3<sup>rd</sup> Young African Statisticians Conference, Pretoria 2012: Awareness, Availability and Distribution of Condoms in Rural Ethiopia,
- 2<sup>nd</sup> Young African Statisticians Conference, Pretoria 2010: Forecasting Internation Tourist Arrivals to Ethiopia Using Multivariate Time Series Models,
- 57<sup>th</sup> WSC, Durban 2009: Impact of Participation of Children in Economic Activities and Some Characteristics of Parents on their Academic Performance” ,
- 1<sup>st</sup> Young African Statisticians Conference, Pretoria,2008:Demand and Consumption of Electricity in Ethiopia as Related to Population Size & GDP”,

## References

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1. Mintwab Bezabih (PhD),  
Researcher, London School of Economics; [M Bezabih@lse.ac.za](mailto:M Bezabih@lse.ac.za)
2. Rob Dorrington  
Professor, Centre for Actuarial Research, University of Cape Town; [rob.dorrington@uct.ac.za](mailto:rob.dorrington@uct.ac.za)
3. Abebe Damte (PhD)  
Research fellow, Ethiopian Development Research Institute; [abebedamte@yahoo.com](mailto:abebedamte@yahoo.com)
4. Erimas Dessie  
Consultant, World Health Organization (WHO); [Ermias.stat@gmail.com](mailto:Ermias.stat@gmail.com)