

HELINA TILAHUN WORKU

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EXPERIENCE

Research:

- Co-authored papers on spatial analysis of livestock and crop production systems of Ethiopia;
- Carried out raster based market proximity/travel time analysis;
- Undertake raster based geostatistical analysis of soil fertility status prediction based on samples collected from hundreds of districts in Ethiopia on R programming platform;
- Organized spatial data on rural services and facilities collected by Central Statistical Agency of Ethiopia
- Editor and map production team of *Soil Fertility Status and Fertilizer Recommendation Atlases of Sothorn Nations Nationalities and Peoples' Regional State (2016), Amhara National Regional State (2016), Harari Peoples' National Regional State (2016), and Dire Dawa City Administration (2016)*;
- Member of a team which produces *Population and Housing Census Atlas of Ethiopia 2007* consisting of maps and descriptions of demographic characteristics, socioeconomic indicators and biophysical environment of Ethiopia;
- Member of a team which produces *Atlas of Agricultural Statistics 2006/07 - 2010/11* comprising of maps and descriptions of livestock and crop production characteristics of private peasant holdings in Ethiopia;

Capacity building:

- Prepared training modules and provided hands-on intermediate level GIS training to university lecturers and researchers in Ethiopia (2014 - 2016);
- Gave an introductory level GIS training to staff of Pakistan Strategy Support Program and Innovative Development Strategies (Islamabad, 2012);
- Provided training focused on basics of GIS, database management system and data collection using GPS for over 200 staffs of regional Bureaus of Finance and Economic Development and Central Statistical Agency of Ethiopia to meet their demand of knowledge-based decision making between 2011 and 2012.

RECORD OF EMPLOYMENT

GIS Analyst

Ethiopia Strategy Support Program (International Food Policy Research Institute/ Ethiopian Development Research Institute)

05 / 2010 - Present

Soil Fertility Status Prediction and Mapping Team Lead

Agricultural Transformation Agency

07 / 2015 - Present

ICT intern

Engineering Capacity Development Program (German Corporation for Technical Cooperation)

08 / 2007 - 01 / 2008

CONSULTANCIES

GIS expert

Dutch Consortium of Flying Swans

- Agronomic suitability analysis of selected horticultural crops based on climatic and edaphic data

05/2017 - Present

GIS expert

The African Development Bank

- **Generate spatial variables and carry out analysis for Rwandan Integrated Household Living Conditions Survey (EICV) sites**

09/2014

GIS expert

Addis Ababa University

- **Designed a module and taught a course in Python programming for master students of GIS**

05/2014 - 06/2014

ICT consultant

Engineering Capacity Development Program (German Corporation for Technical Cooperation)

- **Managed and One Laptop Per Child initiative in Ethiopia which promotes interactive learning among primary school students**
- **Coordinated trainings, support and content related topics**

02 / 2008 - 07 / 2008

EDUCATION

Wageningen University, Wageningen, Netherlands

Master of Science in Geo-information science

09 / 2008 - 08 / 2010

HilCoE School of Computer Science and Technology, Addis Ababa, Ethiopia

Bachelor of Science in Computer Science

09 / 2003 - 05 / 2007

Addis Ababa University, Addis Ababa, Ethiopia

Bachelor of Science in Geology

09 / 1997 - 09 / 2001

PROFESSIONAL DEVELOPMENT

Faculty of Geo-Information Science and Earth Observation - University of Twente, Enschede, Netherlands

Certificate in GIS Operation:

- **Principles of programming (Python)**
- **Spatial database**
- **Spatial analysis**
- **Use and development of web mapping application**

04 / 2013 - 07 / 2013

Faculty of Geo-Information Science and Earth Observation - University of Twente, Nairobi, Kenya

Certificate of attendance in Geostatistical Methods for Environmental Monitoring and Epidemiology course

- **R programming language**
- **Geostatistics**

10 / 2012 - 11 / 2012

PUBLICATIONS

1. Tilahun, H., & Schmidt, E. (2012). *Spatial analysis of livestock production patterns in Ethiopia*. Ethiopia Strategy Support Program II Working Paper 44. Addis Ababa: International Food Policy Research Institute
 2. Kedir, M., Schmidt, E., & Tilahun, H. *Teff production patterns and fertilizer use: a spatial perspective. (forthcoming)*
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SKILLS AND INTERESTS

Languages: English: Speaking, Reading, Writing - Excellent
Amharic: Mother tongue

Interests: Traveling, Reading, Community service (member of Rotary Club of Arada)

REFERENCE

1. Tekalign Mamo (Prof), Senior Director, The Ethiopian Agricultural Transformation Agency, Tekalign.Mamo@ata.gov.et; tekalignmamo@gmail.com
2. Emily Schmidt (PhD) , Associate Research Fellow, Development Strategy and Governance Division, International Food Policy Research Institute, E.Schmidt@cgiar.org
3. Guush Birhane, (PhD) , Research Fellow, Development Strategy and Governance Division, International Food Policy Research Institute, guush.berhane@cgiar.org