

# CURRICULUM VITAE

## Mehari Melak Ayele

### EDUCATION

- PhD Candidate at University of Memphis since fall 2009, USA
- M.Sc. in Geophysics from Addis Ababa University, Ethiopia, July 16, 2004  
Thesis: "The Velocity Structure of the upper crust across the Main Ethiopian Rift"
- B.Sc. in Physics from Addis Ababa University, Ethiopia, July, 1990.

### EMPLOYMENT

- Graduate Research Assistant, Center of Earthquake Research and Information (CERI) since Sept. 2009, Memphis, USA
- Lecturer of Physics, Bahir Dar University, Sept. 2005 - June 2009 Bahir Dar, Ethiopia
- Lecturer of Physics and Geophysics, Gondar University, Sept. 2004 - August, 2005, Gondar, Ethiopia
- Guest Lecturer of Physics, Gondar Teachers college, Oct. 2004- June 2005, Gondar, Ethiopia
- Distance Education Coordinator for Adama Teachers College, Sept. 2001 - Aug. 2002, Negele Borena, Ethiopia
- Teacher of Physics and Mathematics in High Schools, Sept 1991 - Aug. 2003: Gunchrie, Tulubolo, Negele Borena, Addis Ababa - Ethiopia

### MANAGEMENT EXPERIENCE

- Projector Coordinator, Expansion of the Graduate School of Bahir Dar University, May 2007- June 2009, Ethiopia
- Projector Coordinator, Establishing Virtual Physics Laboratory at Bahir Dar University, Oct. 2007- June 2009, Ethiopia
- Bahir Dar University project materials purchasing committee secretary, Dec. 2008 to May 2009, Ethiopia
- Head, Physics Department, in high Schools, for eight years in between Sept. 1991- Aug. 2002, Ethiopia

### WORKSHOP ORGANIZER

- Einstein Year of Physics, Dec. 2005, Bahir Dar, Ethiopia
- Ethiopian Physical Society, Dec. 2006, Bahir Dar, Ethiopia
- Weekly seminar of Physics Department at Bahir Dar University, Jan. 2006 to Nov. 2008, Bahir Dar, Ethiopia

### WORKSHOP ATTENDED

- IPRPI Workshop "Seismic Waveform Tomography", April 27-28, 2010, Troy, USA
- Meeting of Central and Eastern US Earthquake Hazard Program, Oct. 28-29, 2009, Memphis, USA
- The Stanford AWESOM First IHY International Workshop, "Advancing VLF Science through the Global AWESOME Network", 30 May to 01 June, 2009, Tunis, Tunisia
- Horn of Africa Regional Environment Meeting (HoA-REM): December 3-7, 2008, Addis Ababa, Ethiopia

- US-Africa Workshop on Anatomy of Continental Rifts: "The evolution of the East African Rift System from nascent extension to continental breakup", June 24-26, 2004, Addis Ababa, Ethiopia
- The 2nd IHY-Africa SCINDA Workshop, November 10-11, 2007, Addis Ababa, Ethiopia
- The IHY-Africa Space Weather Science and Education Workshop, Nov 12-16, 2007, Addis Ababa, Ethiopia

## **RESEARCH INTEREST**

- Tomography using wave gradiometry technique
- Seismic wave attenuation and surface wave dispersion
- Shear - wave study to understand the rifting processes and the birth of the new oceanic or continental floor
- Integrated Geophysical techniques for subsurface investigation

## **RESEARCH EXPERIENCE**

- Master thesis, "The velocity structure of the upper crust across the Main Ethiopian Rift", Mehari, M. Ayele., 2004, Addis Ababa University, Ethiopia
- The Ethiopia - Afar Geoscientific Lithospheric Experiment to investigate modification of lithospheric structure during continental breakup, EAGLE group, 2002/04
- Vertical electrical sounding survey to map the Potential Basaltic Quarry site at Kaliti area, 2005, Addis Ababa, Ethiopia
- Integrated Geophysical Investigation for the determination of the depth and movement of the Ground Water at Jan-Meda, Addis Ababa, 2004, Addis Ababa, Ethiopia
- Identifying the bore hole site and depth determination for the ground water table in Gondar University Compound, 2005, Gondar, Ethiopia
- The Resistivity Image of the Lake Beseka and the surrounding seismically active regions in the Main Ethiopian Rift, Sept, 2008, Methara, Ethiopia