

CURRICULUM VITAE

NAME: Belay Simane Birhanu
PROFESSION: Environment and Development Studies (Agriculture)
DATE OF BIRTH:
NATIONALITY:
CURRENT ADDRESS:

POSITION TITLE

Associate Professor, Environment and Agricultural Development;
Center for Environment and Development,
College of Development Studies

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Addis Ababa University, Awassa College of Agriculture, Awassa, Ethiopia	Dip	1979	Crop Production and Protection
Timiriyazev Agricultural Academy, Moskow, Russia	M.Sc	1986	Plant Breeding and Agronomy
International Crops Research Institute for the semi-Arid Tropics (ICRISAT)	Dip	1990	Agroclimatology
Wageningen Agricultural University, Wageningen, Netherlands	PhD	1993	Agronomy and Environmental Sciences

Addis Ababa University

A. Personal Statement

Dr Belay Simane, who holds a PhD in Environment and Agricultural Development (Agronomist), has had a specialized training in dry-land agronomy, climate change, natural resources management, crop ecology, agrometeorology, and genetic resource conservation and utilization. He has more than 20 years of varied experience in teaching, agricultural research, and rural development in Ethiopia, India, Syria, Kenya, and Mozambique mostly related in environment, agronomy, input system and watershed development. He worked in Alemaya University from 1986 to 1996 as lecturer, associate professor of agronomy and ecology and as director of research and development. As a senior staff and director of research proposed and carried out several research projects. He has also taught several courses at both undergraduate and graduate levels and advised many graduate students. From 1997 to 2000, he served as Research Advisor in Sida/ANRS Rural Development Project. He played an important role in the preparation of the regional research master plan and on-farm research activities either particular emphasis with watershed development. From January 2000 to 2004 he had been working in EARO as a senior agronomist at Debre Zeit Research Center. Areas of competence encompass agronomy, stress physiology, seed technology and sustainable agriculture. As of 2004 he is Associate professor of environment and agronomy. Currently he is Associate professor of Environment and Agriculture in the Institute of Development Research under Addis Ababa University. He has been also engaged at various consultancy works in the areas of climate change, environmental management,

agronomy, biodiversity conservation and environmental issues, rural development, agricultural input system, agricultural extension and research system development. Currently he is working as a senior staff member in the Center for Environment and Development under the College of Development Studies of the Addis Ababa University and a lead scientist for Choke Mountains Development and Research Initiative, and Ecosystem-based climate change analysis: mitigation and adaptation options in Ethiopia. He is also teaching the course Environmental Impact Assessment, Integrated Natural Resources Management and Climate Change for graduate students at MA and PhD students. He is a co-leader of the applied research project that has been initiated by AAU and UNESCO-IHE, entitled "In Search of Sustainable Catchments and Basin-wide Solidarities: Transboundary Water Management of the Blue Nile River Basin". This 4-year project is supported by the WOTRO. Dr. Belay has developed and is leading the thematic research on Climate Change Adaptation entitled "supporting climate resilient sustainable development in Ethiopia" which is a long term project supported by EPA, AAU and UNDP. He is also a PI of an NSF supported research project titled: Building Resilience to Climate Change in the Upper Blue Nile Highlands, Ethiopia. This project focuses on the fulfilling the post-2015 Development Agenda at community level by integrating economic development, natural resources management and protection and social equity based on research outcomes.

Positions and Employment

1986-1989	Lecturer, Department of Plant Science, Alemaya University of Agriculture, Head of Agronomy Section and breeder and leader of the University's sorghum improvement program
1989-1990	Research Fellow, Agroclimatology in International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)
1991-1992	Research Fellow, Cereals Physiology, International Centre for Agricultural Research in Dry Areas (ICARDA)
1993-1996	Assistant Professor of Agronomy and Ecology, Alemaya University of Agriculture, Department of Plant Sciences, Director of Research
1997-2000	On-Farm Research Advisor, Orgut-Danagro/Sida "Support to Rural Development in Amhara National Regional State, Ethiopia"
2000-2002	Senior Researcher, Head, Agronomy/Physiology Division. Debre Zeit Agricultural Research Center, EARO.
2002-2004	Quality Control and Certification Department Head, National Agricultural Input Authority
2004-2005	National Resource Person for ASSARECA on Seed Regulation and Procedures and Consultant on environmental and biodiversity issues, rural development, agricultural input system development, and agricultural research.
2005-Now	Associate Professor, Environment and Agriculture (Agronomy). Center for Environment and Development, College of Development Studies. Addis Ababa University.
2013-2015	Visiting Associate Research Professor, John Hopkins University, USA

Publications

Peer-reviewed

1. **Belay Simane** and Benjamin F., 2014. The Sustainability of Community-Based Adaptation Projects in the Blue Nile Highlands of Ethiopia. *Sustainability* **2014**, *6*, 4308-4325; doi:10.3390/su6074308.
2. **Belay Simane**, Benjamin F. Zaitchik and Jeremy D. Foltz, 2014. Agroecosystem-specific climate vulnerability analysis: application of the livelihood vulnerability index to a tropical highland region. *Mitig and Adapt Strateg Global Change* **2014**. DOI 10.1007/s11027-014-9568-1.
3. **Belay Simane**, 2013. Climate Change: Impacts and Responses for Carbon Neutral and Climate Resilient development in Ethiopia. *Ethiopian Journal of Natural Resources* **2013**, *13*, No.1 67-101.
4. **Belay Simane**, Benjamin F. Zaitchik and Mutlu Ozdogan, 2013. Agroecosystem Analysis of the Choke Mountain Watersheds, Ethiopia. *Sustainability* **2013**, *5*, 592-616.

5. **Belay Simane**, Benjamin F. Zaitchik and Desalegn Mesfin, 2012. . Building climate change resilience in the Blue Nile / Abay Highlands. A framework for action. *International Journal of Environmental Research and Public Health*. 2012, 9, 610-631.
6. Zaitchik B.F., **Simane B.**, Habib S., Anderson M.C., Ozdogan M., Foltz J.D, 2012. Building Climate Resilience in the Blue Nile/Abay Highlands: A Role for Earth System Sciences. *International Journal of Environmental Research and Public Health*. 2012; 9(2):435-461.
7. Mulu Getachew Mengistu, **Belay Simane**, Getachew Eshete, & Tilahun SiyumWorkneh (2016). The environmental benefits of domestic biogas technology in rural. *Ethiopia Biomass and Bioenergy* 90 (2016) 131-138. <http://dx.doi.org/10.1016/j.biombioe.2016.04.002>
8. Mulu Getachew Mengistu, **Belay Simane**, Getachew Eshete, & Tilahun SiyumWorkneh (2016). Factors affecting households' decisions in biogas technology adoption, the case of *Ofla* and *Mecha* Districts, Northern Ethiopia. *Renewable Energy Reviews* (2016), <http://dx.doi.org/10.1016/j.renene.2016.02.066>.
9. Ermias Teferi, Woldeamlak Bewket and **Belay Simane** (2016). Effects of land use and land cover on selected soil quality indicators in the headwater area of the Blue Nile basin of Ethiopia. *Environ Monit Assess* (2016) 188:83 DOI 10.1007/s10661-015-5086-1
10. Zenaye Tekle and **Belay Simane** (2015). The Impact of Climate Change on Household Poverty in Ethiopia: Application of a dynamic Micro-simulation Approach. *Ethiopian Journal Development Research* Vol 36, Nov 2014 21-51.
11. Yericho Berhanu and **Belay Simane** (2015). Assessment of the Effectiveness of Watershed Management Intervention in Chena Woreda, Kaffa Zone, Southwestern Ethiopia. *Journal of Water Resource and Protection*, 7, 1257-1269. <http://dx.doi.org/10.4236/jwarp.2015.715102>
12. M.G. Mengistu, **B. Simane**, G.Eshete, & T.S.Workneh (2015). A review on biogas technology and its contributions to sustainable rural livelihood in Ethiopia. *Renewable and Sustainable Energy Reviews* 48(2015)306–316. DOI: 10.1016/j.rser.2015.04.026
13. Abayineh Amare and **Simane Belay** (2015). The Environmental Implication of Population Dynamics in Ethiopia: Review. *International Journal of Research in Agricultural Sciences (IJRAS)*.2015, Volume 2, Issue 2, ISSN (Online): 2348 – 3997)
14. Belay T. Mengistie, Arthur P.J. Mol, Peter Oosterveer and **Belay Simane** (2014): Information, motivation and resources: the missing elements in agricultural pesticide policy implementation in Ethiopia, *International Journal of Agricultural Sustainability*, DOI: 10.1080/14735903.2014.959330
15. Temesgen, M., Uhlenbrook, S., **Simane, B.**, van der Zaag, P., Mohamed, Y., Wenninger, J., and Savenije, H. H. G. 2012: Impacts of conservation tillage on the hydrological and agronomic performance of Fanya juus in the upper Blue Nile (Abbay) river basin, *Hydrol. Earth Syst. Sci.*, 16, 4725-4735, doi:10.5194/hess-16-4725-2012, 2012.
16. Teferi, E., Uhlenbrook, S., Bewket, W., Wenninger, J., and **Simane, B.** 2010: The use of remote sensing to quantify wetland loss in the Choke Mountain range, Upper Blue Nile basin, Ethiopia, *Hydrol. Earth Syst. Sci.*, 14, 2415-2428, doi:10.5194/hess-14-2415-2010, 2010.
17. Setegn Gebeyehu ; **Belay Simane** and Kirkby, Roger, 2006. Genotype×cropping system interaction in climbing beans (*Phaseolus vulgaris* L.) grown as sole crop and in association with maize (*Zea mays* L.). *European Journal of Agronomy*, Volume 24, issue 4 (May, 2006), p. 396-403. ISSN: 1161-0301 DOI: 10.1016/j.eja.2006.01.005. Elsevier Science. *European Journal of Agronomy*, 2006, Vol.24 (4), pp.396-403
18. Gemechu Keneni and **Belay Simane**. 2003. Implications of geographic origin and botanical sub-species for parental selection in genetic enhancement of groundnut (*Arachis hypogaea* L.) *Journal of Genetics and Breeding* 57: 93-100.

19. Tesfaye Teferra, Hailu Teferra, **Belay Simane** and M. Tuinstra, 2000. The effect of moisture stress on growth, leaf water loss rate and phenological development of tef (*Eragrostis tef*). *Tropical Science* 40:100-107.
20. **Belay Simane**, Tanner, D.G, Amsal Tarekegn and Asefa Taa, 1999. Agro-ecological Decision support system for sustainable wheat production in Ethiopia. *African Crop Science Journal*, Vol.7. No. 1, 9-19
21. **Belay Simane**, Wortman, C. And Hoogenboom, G., 1998. Haricot Bean Agroecology in Ethiopia: Defining using agroclimatic and Crop Growth Models. *African Crop Science Journal*, Vol.6. No. 1, 9-18.
22. Gemechu Keneni, **Belay Simane** and Getinet Gebeyehu. 1997. Genetic diversity of groundnut germplasm in Ethiopia. *Ethiopian Journal of Agricultural Sciences* 16 (1&2): 1-13.
23. Belay Simane, Zerihun Woldu, Berhe G.Egziabher. 2003. Public-Private Partnership in Biotechnology Product Development in Ethiopia. Discussion paper. No. 03-8 October 2003. International Service for National Agricultural Research (ISNAR).
24. **Simane, B** and Struik, P.C.,1993. Agroclimatic analysis: a tool for planning sustainable durum wheat (*Triticum turgidum* var. *durum*). *Agriculture Ecosystem & Environment* 47: 36-47.
25. **Simane, B.**, Peacock, J.M. and Struik, P.C., 1993. Differences in developmental plasticity and growth rate among drought resistant and susceptible genotypes of durum wheat (*Triticum turgidum* var. *durum*). *Plant and Soil* 157: 155-166.
26. **Simane, B.**, Struik, P.C. and Peacock, J.M., 1993. Ontogenetic analysis of yield components and yield stability of durum wheat in water-limited environments. *Euphytica* 71: 211-219.
27. **Simane, B.**; Keulen, H.Van, Stol, W. and Struik, P.C., 1994. Application of crop growth model (SUCROS-87) to assess the effect of moisture stress on yield potential of durum wheat in Ethiopia. *Agricultural Systems* 44: 337-353.
28. Martha C.Anderson, Benjamin F.Zaitchik, and **Belay Simane**, 2012. Water Balance from Space:Promoting climate resilience in the Blue Nile/Abay Highlands. data and ingenuity for climate change solutions. May/June 2012 RESOURCE.
29. Tesfaye Teferra, Hailu Teferra, **Belay Simane** and M. Tuinstra, 2000. The influence of drought stress on yield of tef (*Eragrostis tef*). *Tropical Science* 40:45-45.
30. Kebebew Assefa, Seyfu Ketema, Hailu Tefera, Henry T. Nguyen, Abraham Blum,Mulu Ayele, Guihua Bai, **Belay Simane** & Tiruneh Kefyalew, 1999. Diversity among germplasm lines of the Ethiopian cerealtf [*Eragrostis tef* (Zucc.) Trotter]. *Euphytica* 106: 87–97, 1999.
31. Mulu Getachew Mengistu, **Belay Simane**, Getachew Eshete, & Tilahun SiyumWorkneh (2016). **Institutional Factors Influencing the Dissemination of Biogas Technology in Ethiopia.** *Journal of Human Ecology (JHE)*. In Press.
32. **Belay Simane**, Hunachew Beyene, Wakgari Deressa, AberaKumie, Kiros Berhane, Jonathan Samet (2016). A Review of Climate Change and Health in Ethiopia: Status and gap analysis. *Ethiopian Journal of Health Development, In press*

Books

1. **Belay Simane**, 2016. Building Community Resilience to Climate Change: Lessons from the Choke Mountain Agro-Ecosystems, Abay/the Blue Nile Highlands. *Addis Ababa University Press, 2016*. Addis Ababa, Ethiopia. Pp 302. ISBN 978-99944-52-71-2.
2. Belay Simane, 2010. Establishing Climate Resilient Economy in the Choke Ecosystem: making Research and Capacity Building Development Oriented. Addis Ababa University printing Press (in Amharic). Pp-82.
3. Belay Simane, 1993. 2Drought Resistance in Durum Wheat, PublisherLandbouwniversiteit Wageningen, Pp 159. ISBN9054851627, 9789054851622.

Book Chapters

1. Belay Simane, 2008. Seed policies and regulations and informal seed supply in Ethiopia. In: Thijssen, M.H. Z.Bishaw, A. Beshir and W.S. de Boef (Eds). *Farmers, Seeds and Varieties: supporting informal seed supply in Ethiopia*. Wageningen, Wageningen International. 348p. ISBN: 978-8585-215-5.
2. Zewdie Bishaw, Yonas Sahilu, and Belay Simane. 2008. The status of the Ethiopian seed industry. In: Thijssen, M.H. Z.Bishaw, A. Beshir and W.S. de Boef (Eds). *Farmers, Seeds and Varieties: supporting informal seed supply in Ethiopia*. Wageningen, Wageningen International. 348p. ISBN: 978-8585-215-5.
3. Yonas Sahilu, Belay Simane and Zewdie Bishaw. 2008. The Farmer-based seed production and marketing scheme: lessons learnt. In: Thijssen, M.H. Z.Bishaw, A. Beshir and W.S. de Boef (Eds). *Farmers, Seeds and Varieties: supporting informal seed supply in Ethiopia*. Wageningen, Wageningen International. 348p. ISBN: 978-8585-215-5.
4. Challenges and opportunities of irrigated agriculture: The Case of Gedeb River, Amhara Region of Ethiopia Paperback – March 6, 2013 by Lijalem Abebaw (Author) , Belay Simane (Author). LAP LAMBERT Academic Publishing (March 6, 2013). 144 pages, ISBN-10: 3659356662, ISBN-13: 978-3659356667
5. Belay Simane, P.C Struik and J.M Peacock, 1996. Water Use Efficiency: A measure of Drought Resistance in Durum Wheat under Terminal Stress. In: Tanner, D.G., Payne, T.S., and Abdella, O.S. eds. 1996. *The Ninth Regional Wheat Workshop for Eastern, Central and Southern Africa*. Addis Ababa, Ethiopia. Pp 535. ISBN 92-9146-007-9.
6. Belay Simane, 2004. Agricultural Input System and public-Private Partnership in Ethiopia. In: Tesfahun Fenta and Osman Ali, 2004. *Proceedings of the Food Security Conference 2003. Challenges and Prospects of Food Security in Ethiopia*. August 13-15, 2003 , UNCC, Addis Ababa, Ethiopia. Pp 396.

Other publications

1. **Belay Simane**, 2013. The Sustainability of Community-Based Adaptation in the Choke Mountain Watersheds, Blue Nile Highlands, Ethiopia. In *Proceedings of the 3rd World Sustain. Forum*, 1-30 November 2013; Sciforum Electronic Conference Series, Vol. 3, 2013 , h001; doi:10.3390/wsf3-h001
2. Zwedu Eshetu, Belay Simane, Gebeyehu Tebeje, Workneh Negatu, Aklilu Amsalu, Abeje Berhanu, Neil Bird, Bryn Welham and Nella Canales Trujillo, 2014. *Ethiopia National Climate Change Finance Analysis*. Overseas Development Institute, London and the Climate Science Centre, Addis Ababa University, Addis Ababa. Pp.111.
3. Belay Simane and Paddy Abot, 2009. *Africa Adaptation Project: Supporting climate resilient sustainable development in Ethiopia (2009)*. Commissioned by the UNOPS and UNDP.
4. *Alliance for a Green Revolution in Africa: Soil Health Program Business Planning Process. Country Report for Ethiopia (2008)*, commissioned by the Rockefeller and Bill & Melinda Gates Foundations in conjunction with Cambridge Economic Policy Associates (CEPA) as part of the development of the Program for Africa's Soil health program (AGRA).
5. Belay Simane, 2007. *Seed system country report for Ethiopia (2007)*, commissioned by the Rockefeller and Bill & Melinda Gates Foundations in conjunction with Cambridge Economic Policy Associates (CEPA) as part of the development of the Program for Africa's Seed Systems (PASS).
6. Belay Simane, 2004. *The Seed Regulations and Standards of Ethiopia: The Way Forward*. Eastern and Central Africa Program for Agricultural Policy Analysis (ECAPAPA) Report. Entebbe, Uganda: ECAPAPA.

7. Belay Simane, 1989. Agroclimatology of Ethiopia in relation to dry land Agriculture in Ethiopia. International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, A.P., India. pp 125.
8. Belay Simane. 2002. The National Seed Industry Policy and Strategy: Current Status of Sorghum and Millets. Paper to be presented at the 1st sorghum and millet national workshop to be held at Melkassa Agricultural Research Center, October 12-14, 2002.
9. Belay Simane. 2002. Fertilizer Demand and Status of Soil Testing Laboratories. Paper presented at SG-2000 workshop. Addis Ababa, Ethiopia.
10. Belay Simane. 2003. Agricultural Input System and Public-Private Partnership in Ethiopia. Paper presented at the Food Security Conference 2003 "Challenges and Prospects of Food Security in Ethiopia" to be held at UN Conference Center, Addis Ababa, August 13-15, 2003.
11. Belay Simane. 2003. The National Seed Industry Policy and the Status of Legumes Seed System in Ethiopia. Paper presented at the Second National Review Workshop on Food and Forage Legumes. Ethiopian Agricultural Research Organization, September 22-26, 2003, Addis Ababa, Ethiopia.

Research based Consultancy Works

1. Preparation of Watershed Investment Projects Chemoga-Yeda, Fincha (Ethiopia), Atbara Kerib land Rehabilitation, Talkuk Water-harvesting (Sudan) projects, 2014. EASTERN NILE TECHNICAL REGIONAL OFFICE, NBI. Agricultural Expert.
2. Belay Simane, 2013. Vulnerability Assessment of Ethiopia adaptation project: Coping with Drought and Climate Change. GEF PROGRAM, The United Nations Development Programme Ethiopia Country Office (UNDP-CO)
3. Belay Simane, 2011. ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT Training Module Prepared for EPA Experts
4. Conduct training on Environmental and Social Impact Assessment for Federal and Regional Agricultural Experts April 13-23, 2012 Akaki Campus Addis Ababa University
5. Conduct training on Environmental and Social Impact Assessment for Federal and Regional Environmental Protection Authorities from February 03-23, 2010. Ghion Hotel, Addis Ababa
6. Africa Adaptation Project: Supporting climate resilient sustainable development in Ethiopia (2009). Commissioned by the UNOPS and UNDP.
7. Alliance for a Green Revolution in Africa: Soil Health Program Business Planning Process. Country Report for Ethiopia (2008), commissioned by the Rockefeller and Bill & Melinda Gates Foundations in conjunction with Cambridge Economic Policy Associates (CEPA) as part of the development of the Program for Africa's Soil health program (AGRA).
8. Afar Regional Environmental Action Plan Development (2007), Commissioned by UNDP
9. Environmental Impact Assessment of Jatropha plantation (2008). Commissioned by the Sun Biofuels.
10. Seed system country report for Ethiopia (2007), commissioned by the Rockefeller and Bill & Melinda Gates Foundations in conjunction with Cambridge Economic Policy Associates (CEPA) as part of the development of the Program for Africa's Seed Systems (PASS).
11. Preparation of National Capacity Needs Self-Assessment Action Plan for Environmental Protection Authority, Addis Anteneh, Consultant/Economist, 2005 – Team Leader
12. Impact assessment of BIO-EARN Program II in Ethiopia. The Ethiopian Science and Technology Agency, 2006. Team Leader
13. Preparation of the Agricultural Input System for Mozambique. IFDC, 2005, **Seed Agronomist**
14. Harmonization of the Ethiopian Seed System for ECAPAPA/ASARECA 2004. **Team Leader**

15. Strategic Plan development for The Hunger Project for *Addis Anteneh*, *Consultant/Economist*, 2004, **Team leader**
16. Agricultural Inputs Market Development for Ethiopia. IFDC/USAID, 2004. **Seed agronomist**
17. Evaluation and Assessment of the Agricultural Research and Training Project for *Addis Anteneh*, *Consultant/Economist*, 2004. **Team Leader**
18. Public-Private Partnerships in Biotechnology Product Development in Ethiopia. The Ethiopian Science and Technology Commission, 2003. **Team Leader**
19. Agricultural Inputs Project (Fertilizer, seed and pesticide project to be submitted to the World Bank), Ministry of Rural Development (NAIA, 2002). **Team Leader**
12. Analysis of Market and Socio-economic Situations Affecting *in situ* Biodiversity Conservation in Ethiopia (IBCR, 2001) for *Addis Anteneh*, *Consultant/Economist*. **Team Leader**
13. Techno-economic Feasibility Study for Private Seed Farms, NSIA, 2001 **Team Leader and Agronomist**
14. Technical assistance for the Private Seed Farms, NSIA, 2001, **Team Leader and Agronomist**
15. Agricultural Research Master Plan for Amhara National Regional State (1999), **Coordinator**.
16. Agricultural Intervention Strategies in the Somali Regional State (1997), **coordinator and agronomist**

Participation in AAU Affairs

Academic administration:

- Associate Director for research programs (2006-2008)
- Director, Institute for Environment, Water and Development (2008-2009)
- Chair, **Institute Council**
- **Head, Center for Environment and Development(2010-2013)**
- **Member of CDS Academic Commission**
- Chair, **Center Council**

Work in committees:

- Strategic Plan of CDS
- Chair of the Committee for the Implementation plan for Graduate Programs Reform Taskforce
- Chair of the Strategic Plan Preparation Committee

Other special assignments:

- Coordinator for "The Choke Mountains Research and Development Initiative: Sustaining the Blue Nile Basin Ecosystem"
- Co-Author for the Ethiopian Panel on Climate Change Report: Working Group II Agriculture and Food Security. Published by Ethiopian Academy of Sciences. ISBN: 978-99944-918-4-1
- Member of the International Group for developing a "Toolkit for Green Economy Planning at Subnational level" (UNEP project)

Research leadership and coordinations:

- **NILE-NEXUS: Opportunities for a sustainable food-energy-water future in the Blue Nile Mountains of Ethiopia.** Belmont Forum. 2016-2019
- **CNH: Agroecosystem-based Climate Resilience Strategies in the Blue Nile Headwaters of Ethiopia . NSF Coupled Natural and Human Systems Program. 2012-2016.** Goal is to undertake agroecosystem-based analysis of climate change impacts and adaptation opportunities and risks in the Blue Nile Headwaters (BNH) region of Ethiopia. 2012-2017. (financed by NSF and John Hopkins University; Role: PI-Ethiopia.
- **Building Resilience to Climate Change in Ethiopia: a Thematic Research (AAU).** Goal is to support policy makers and development actors to manage climate change risks and strengthen evidence-based recommendations and enhance Ethiopia's capacity to adapt to and mitigate climate change. 2010-2018. (Financed by AAU (SIDA supported, Ethiopia). Role: PI
- **In Search of Sustainable Catchments and Basin-wide Solidarities: Transboundary Water Management of the Blue Nile River Basin.** Goal is to understand the positive externalities of sustainable land use practices of upstream catchment areas for sustainable and integrated basin management. 2002-2006 (Financed by the WOTRO, the Netherlands, Co-PI)
- **MAINBIOSYS: "Mainstreaming Biofarming System in Ethiopian and Ugandan Higher Education Institutions",** 2005-2008 (Financed by EU & University of Molise, Italy, Co-PI)
- **AFRHINET: An ACP-EU Technology Transfer Network on Rainwater Harvesting Irrigation Management for Sustainable Dryland Agriculture, Food Security and Poverty (Ethiopia, Kenya, Mozambique, and Zimbabwe)** Financed by ACP:EU programme and Hamburg University of Applied Sciences, Germany).

Participation in Community Services/Professional Activities

Participation in local, regional and national committees:

- Member of the National Panel of Experts for the Grand Renaissance Dam
- Member of the National Technical Institutions for the project on Operationalizing Green Economy Transition in Africa
- GEF_SGP National Steering Committee member
- National Global Environment Facility coordination Member
- Member of the Ethiopian Negotiation Team on Climate Change
- Member of the Project Coordination Committee for "African Adaptation Program- Supporting Climate Resilient Sustainable Development in Ethiopia"

Organizing Symposiums

- Symposium on Climate Change Adaptation in Africa "FOSTERING AFRICAN RESILIENCE AND CAPACITY TO ADAPT". Addis Ababa, Ethiopia, 21st-23 February 2016.
- Second New Nile Conference New Nile Opportunities: Scientific Advances towards prosperity in the Eastern Nile basin 8-9 December, 2014 UN-ECA, Addis Ababa, Ethiopia

Supporting Communities

- Established and organized 21 community-based watershed organizations that supported 10,267 households (8907 MHHs and 1360 FHHs) with the financial support of 5,350,999 Ethiopian Birr together with GEF-UNDP in the Choke Mountain Ecosystems.

- Established 13 Community-based Innovation Platforms (Climate Smart Villages) that supporting about 300 HHs together with Debre Markos University with the support of CNH project.

Courses taught

Course Title	Course Number	Academic Year	Semester
Environmental Impact Assessment	DEST 645	2005-2014	2
Climate Change and Response measures	DEST 646	2010-2013	2
Integrated Environmental Resources management	DEVENV 804	2009-2015	2
Environmental Policies, Laws and Enforcement Mechanisms	DEVENV 805	2009-2015	2
<i>Seminar II</i>	<i>DEVENV 808</i>	2009-2012	2
Environmental management System and development	<i>DEVENV 824</i>	2010-2015	1

PhD Student Advisees working in climate change and resilience related areas:

1. Kindie Gebeyehu
2. Demamu Mesfin
3. Mintesinot Azene
4. Endalew Addis
5. Paulos Asrat
6. Abayneh Amare
7. Mulu Getachew
8. Amanu Mekonen
9. Challa Dechassa
10. Amogne
11. Mussie Yibab

Teaching Material

1. Belay Simane, 2013. Environmental Impact Assessment. Training Module. College of Development Studies. Akaki Campus. Addis Ababa University
2. Belay Simane, 2010. Local Level Environmental Management Planning. Training Module for Environmental Protection Authority experts, Addis Ababa University

Journal Editorial board

- Ethiopian Journal Natural Resources
- Ethiopian Journal of Agricultural Sciences

Referees:

1. Dr. Teweldebirhan Gebre Egziabher, Director General
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CERTIFICATION:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications and work experiences.

