

# Endalkachew Abebe Kebede

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## Work History

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**2017-10 - 2022-08**

### **Researcher and Lecturer**

*Debre Tabor University, Debre Tabor, Ethiopia*

- 75% research and 25% teaching responsibilities
- Propose and conduct problem-driven research projects according to the scientific research standards
- Search for research grant donors and apply according to the specific requirements
- Deliver courses for undergraduate students
- Mentored undergraduate students in their research or project works .

**2012-11 - 2017-10**

### **Lecturer and Researcher**

*Woldia University, Woldia, Ethiopia*

- Deliver courses for undergraduate students using a variety of learning modalities and support materials
- Created and designed quizzes, tests and projects to assess student knowledge
- Mentored undergraduate students and coordinating seminars and senior research projects
- Conducted individual research projects to actively contribute to institution's research work

**2010-12 - 2012-11**

### **Instructor**

*Bahir Dar Polytechnic College, Bahir Dar, Ethiopia*

- Deliver vocational training in the area of water technology.
- Applied various teaching aids to minimize learning gaps and instruct and motivate students.
- Used learning assessments to regularly monitor student understanding of class concepts and materials.
- Create, adopt/adapt water technologies that are designed to solve critical and prioritized community problems

2010-01 - 2010-12

## Irrigation Infrastructural Engineer

*ANRS Agricultural Office, Maksengit Branch, Maksengit*

- Design and monitor the construction of public irrigation and water harvesting infrastructures as well as identify maintenance need
- Monitored execution of contract work for compliance with design plans and specifications.
- Estimated quantities and material costs during project planning to support budgeting and costing.
- Developed and implemented solutions to maintain and improve public infrastructure at existing sites.

## Education

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2022-08 - Current

### Ph.D.: Geography

*University of Delaware - Newark, DE*

2019-10 - 2021-04

### Master of Science: Water Science And Engineering

*IHE Delft Institute For Water Education - Delft, The Netherlands*

2013-10 - 2015-07

### Master of Science: Irrigation Engineering

*Haramaya University - Haramaya, Ethiopia*

2006-09 - 2009-07

### Bachelor of Science: Soil And Water Engineering And Management

*Haramaya University - Haramaya, Ethiopia*

## Research Interests

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My research interests include water, food, energy nexus, hydro-economic modeling, crop water productivity modeling and applications of remote sensing on water resources

## Publications

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Yonas, G.H., Andualem, G.H., Yibeltal M., Malede, D.A., Assefa M., Melesse, Fitsum T., Haimanote K. Bayabil, **Kebede E.A.**, Demissie, E.A., Mitku, A.B., Mequanent, A.M., (2022).. Assessment of agricultural land suitability for surface irrigation using Geospatial Techniques in the Lower Omo Gibe Basin, Ethiopia. *Journal of Agricultural Water Management*. (Submitted)

**Kebede, E. A.**, Addise, MB, Gelaye, TY. (2022). Potentials and Constraints of Irrigation production in South Gondar Zone, Ethiopia. (under review)

- Kebede, E. A.**, Addise, MB, Getachew G, Anudalem, TG (2022). The impact of land use land cover on the hydrology of Ribb watershed, Upper Blue Nile Basin, Ethiopia. (Under review)
- Abebe, E.** (2019). Grey water Irrigation: An Alternative Approach for Household Production, Journal of Civil and Environmental Research, Vol.11, No.2, 2019, DOI: 10.7176/CER
- Kebede, E.A** and Kebede, A. (2019). A Comparison of Hydrological Models Under Climate Change on the water resources of Megch River Catchment, Abbay Basin, Ethiopia, 2019. Journal of Natural science Research, 9.1.DOI: 10.7176/JNSR
- kebede, E.A** and Kebede, A. (2017). Assessment of Climate Change Impacts on the Water Resources of Megech River Catchment, Abbay Basin, Ethiopia. Open Journal of Modern Hydrology,7, 141-152.

## Conference Presentations

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- Kebede, E. A.**, Crosato, A., Paron, P., and Sloff, K.: 1D morphological adaptation of Lower Zambezi River to dam construction, EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-13022, <https://doi.org/10.5194/egusphere-egu22-13022>.
- Kebede E.A.**, Bojin Bojinov, Orhan Dengiz, Silviya Valentinova Vasileva, 2022. Comparing Remote Sensing and In Situ Analyses of Test Wheat Plants as Means for Optimizing Data Collection In Precision Agriculture. II International Cappadocia Scientific Research Congress June 17-19, 2022 / Cappadocia-Nevşehir. [https://en.cappadociacongress.org/\\_files/ugd/d0a9b7\\_71be4351e23540ffa0732d76a491ab15.pdf](https://en.cappadociacongress.org/_files/ugd/d0a9b7_71be4351e23540ffa0732d76a491ab15.pdf)
- Kebede E.A.**, Anadon V. Andonov , Bojin Bojinov, Orhan Dengiz (2021). Artificial intelligence and remote sensing as a tool for sustainable agriculture: A review. International Soil Science Symposium on "Soil Science & Plant Nutrition" 18 – 19 December 2021 / Samsun, Turkey. <http://www.fesss.org/pages.php?id=6>
- Kebede, E.A** and Kebede, A. (2016). Assessment of Climate Change Impacts on the Water Resources of Megech River Catchment, Abbay Basin, Ethiopia. A national conference on Water Use, Recyclability, and Treatment Technologie, June 03 -06, 2016, Haramaya University, Ethiopia.
- Kebede, E.A** and Kebede, A. (2017). A Comparison of Hydrological Models Under Climate Change on the water resources of Megch River Catchment, Abbay Basin, Ethiopia. 4th International Conference on the Advancements of Science and Technology (ICAST - 2017), Bahir Dar, May 19-20, 2017.

## Teaching

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Surface and Ground Water Hydrology  
 Hydraulics  
 GIS and RS  
 Water supply system structure design and construction  
 Irrigation and water management  
 Land Drainage

Soil and water conservation engineering  
Water resource planning and management  
Design of small channels  
Experimental Design and Research Methodologies

## Award and Honors

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**Erasmus Mundus Scholarship** - 2019  
**Nuffic-Orange Knowledge Program fellowship** -2019

## Certifications

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**2019-12** Introduction to GIS for Water Science and Engineering.  
<http://changelog.qgis.org/en/qgis/certificate/QGIS-1567/>








**2021-09** Programming for Everybody (Getting Started with Python).  
<https://www.coursera.org/account/accomplishments/certificate/LZN76CTVSA9A>

**2021-09** Python Data Structure  
<https://www.coursera.org/account/accomplishments/certificate/LZN76CTVSA9A>

**2021-09** Capstone: Retrieving, Processing, and Visualizing Data with Python  
<https://www.coursera.org/account/accomplishments/certificate/EFVBGZNX5EB>

## Skills

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Academic writing	
	Very Good
Presentations	
	Very Good
Hydrology and Hydraulics Modeling	
	Very Good
Data analysis tools (R, Python..)	
	Very Good
Crop Water Productivity modeling	
	Very Good
GIS and RS	
	Very Good
Econometric modeling	
	Very Good