

## Curriculum Vitae

### Dawit Girma Burayu

Ethiopia

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### Education

#### Master's degree:

Graduated with M.Sc. degree in Civil Engineering (**Hydraulic Engineering**) from Addis Ababa University, Ethiopia, on **March 4, 2021**.

#### Bachelor degree:

Graduated with B.Sc. degree in Hydraulic and water resources engineering from Wollega University, Ethiopia, on **June 25, 2016**

### Research Experience

#### Master Thesis

EVALUATION OF THE PERFORMANCE OF HIGH-RESOLUTION SATELLITE BASED RAINFALL PRODUCTS FOR STREAM FLOW SIMULATION (Case Study: Genale Dawa River basin), Addis Ababa University, 2021.








### Publications

1. Publish the article Entitled with “Geospatial mapping of groundwater potential zones using multi-criteria decision analysis and GIS fuzzy logic in Dabus Sub-Basin, western Ethiopia” in the Journal of Quaternary Science Advances, 2025. <https://doi.org/10.1016/j.qsa.2025.100275>
2. Publish the article Entitled with “Identifying flood vulnerable and risk areas using the integration of analytical hierarchy process (AHP), GIS, and remote sensing: A case study of southern Oromia region” in the Journal of Climate change/Elsevier, 2023 <https://doi.org/10.1016/j.uclim.2023.101640>
3. Published the article Entitled with “Site Suitability Analysis for Surface Irrigation using GIS, Remote Sensing, and Analytical Hierarchy Process (AHP) Integration in Wama Watershed, Western Ethiopia” in the Journal of Hydrospatial Analysis, 2022. <https://doi.org/10.21523/gcj3.2022060104>
4. Published the article Entitled with “Estimation of Soil Loss Rate Using RUSLE Model Integrated with GIS and Remote Sensing Techniques: The Case of Wama Watershed, Western Ethiopia” International Journal of Scientific Research and Innovative Studies (IJSRIS Journal), 2022


5. Published the article Entitled with “Identification of Groundwater Potential Zones Using AHP, GIS and RS Integration: A Case Study of Didessa Sub-Basin, Western Ethiopia” in the Journal of Remote Sensing of land, 2022. <https://doi.org/10.21523/gcj1.2022060101>
6. Published the article Entitled with “Evaluation and Bias correction of Tropical Applications of Meteorology using SATellite (TAMSAT) daily rainfall estimates over the data-scarce region of Southern Ethiopia” in the Journal of Journal of Civil Engineering Research & Technology, 2021 [https://doi.org/10.47363/JCERT/2021\(3\)121](https://doi.org/10.47363/JCERT/2021(3)121)
7. Publish the article Entitled with “Evaluation of the performance of high-resolution rainfall products for stream flow Simulation” in the Journal of Civil & Environmental Engineering, 2021 <https://www.bing.com/newtabreaddir?url=https%3A%2F%2Fwww.hilarispublishes.com%2Fopen-access%2Fevaluation-of-the-performance-of-highresolution-satellite-based-rainfall-products-for-stream-flow-simulation.pdf>
8. Publish the article Entitled with “MCDA Approach for Identification of Rainwater Harvesting Site in Drought Vulnerable Area of Genale Dawa River Basin, Southern Ethiopia” in the Journal of Hydro spatial Analysis, 2025. <https://doi.org/10.21523/gcj3>





## Technical Skills




### 1. programming languages

-  Python Programming
-  MATLAB Programming
-  R Programming
-  Data analysis
-  Statistical modeling
-  Machine learning
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### 2. Software

- |  |  |
|--|--|
|  GIS            |  Sewer CAD  |
|  Flow master    |  Water GEMS |
|  HEC-HMS        |  Storm CAD  |
|  HEC-RAS        |  Water CAD  |
|  Culvert master |  MATLAB     |
|  Global mapper  |  Ephanet    |
|  CADAM          |  Cropwat    |
|  SWAT           |  GAMS       |
|  AutoCAD        |  SWMM       |

 ERDAS  
 HY8  
 HYSIM  
 RStudio

 GFMFS  
 HBV model  
 WEAP

## Work Experience

### Lecturer

Wolkite University, Ethiopia, [September 14, 2017 - Present]

Teaching, Mentoring and coaching Hydraulic, Civil and Construction Engineering students at different level.

Conduct problem solving research and community service activities and publish on reputable national and international journal.

### Hydraulic Engineer, Hydrologist and Sanitary Engineer

GMN Water Works Construction Plc, [June 14, 2021 – November 13, 2024]

Planning, Designing, Construction and implementation of different water resources project

## Professional Memberships & Certifications

1. Awarded certificate of Nanodegree Program Completion “Data Analysis Fundamentals” from UDACITY in 2024. [www.udacity.com/certificate/e/17af7d64-ad68-11ef-8bfb-fb13b5256379](https://www.udacity.com/certificate/e/17af7d64-ad68-11ef-8bfb-fb13b5256379)
2. Awarded certificate of Nanodegree Program Completion “Artificial Intelligence Fundamentals” from UDACITY in 2024. [www.udacity.com/certificate/e/6d4961b4-ac9f-11ef-9698-b32a963d6948](https://www.udacity.com/certificate/e/6d4961b4-ac9f-11ef-9698-b32a963d6948)
3. Awarded certificate of Completion training course “IWRM for climate resilience” from Cap-Net Virtual Campus in 2024. **Certificate ID Number:** **e9fcf406bac042779988334fa243dfb6**
4. Awarded Certificate of Excellence in Reviewing from Journal of Agriculture and Ecology Research International in 2022. **Certificate No:** **SDI/HQ/PR/Cert/84009/DAW**
5. Awarded Certificate of Excellence in Reviewing from Journal of Geography, Environment and Earth Science International in 2022. **Certificate No:** **SDI/HQ/PR/Cert/83779/DAW**
6. Awarded Certificate of Excellence in Reviewing from International Journal of Environment and Climate Change in 2022. **Certificate No:** **SDI/HQ/PR/Cert/86268/DAW**
7. Awarded Certificate of *participation on a nationwide survey on “Knowledge, Attitudes, and Practices of Ethiopians Towards COVID-19: An online survey” during May 2020.* **88EKWQ-CE001555**

## Conferences & Workshops

1. Participated on e-Conference on **Climate Change, Environmental Health and Sustainable Development Goals in Post COVID-19 World** in commemoration of World Environment Day for two days on 4<sup>th</sup>-5<sup>th</sup> June, 2020, Organized by University

School of Environment Management Guru Gobind Singh Indraprastha University

2. Participated in one day webinar on “ADVANCES IN SUSTAINABLE MANAGEMENT OF WATER RESOURCES” organized by SURESH GYAN VIHAR University, held on OCT 18,2020.
3. Participated in the 7th Annual Virtual International Convention on “Sustainability in Current Scenario: Challenges & Solutions” (SCSCS-2020) held from 05 to 07 Nov, 2020.

## References

### 1. Shankar Karuppannan (PhD)

Associate Professor, 2. Department of Applied Geology, College of Applied Natural Science, Adama Science and Technology University, Adama, Email [geoshankar1984@gmail.com](mailto:geoshankar1984@gmail.com)

### 2. Belete Berhanu (PhD)

Associate Professor, Chair Person for Hydraulics, Hydrology and Water Resources system Chair, School of Civil and Environmental Engineering, Addis Ababa Institute of Technology, Addis Ababa University, Email [belete.berhanu@aait.edu.et](mailto:belete.berhanu@aait.edu.et)

### 3. Yilma Seleshi (Prof)

Professor in Water Resources Engineering, School of Civil and Environmental Engineering, Ababa Institute of Technology, Addis Ababa University, E-mail: [Yilma.seleshi@aau.edu.et](mailto:Yilma.seleshi@aau.edu.et)

### 4. Dereje Hailu (Dr.-Eng.)

Associate Professor in Water Resources Engineering, School of Civil & Environmental Engineering, Addis Ababa Institute of Technology, Addis Ababa University, Ethiopia, Email: [dereje.hailu@aait.edu.et](mailto:dereje.hailu@aait.edu.et)