Kibrewosen Zewdu Belay

Remote Sensing and Hydrology Expert

Date of Birth: 19 June 1992

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in https://www.linkedin.com/in/kbelay

Summary

A detail-oriented water professional with a Master's in Hydroinformatics and over 4 years of effective hands-on experience in Remote Sensing, Hydrology, and Sustainable Water Resources Management. Specializing in water systems optimization and the development of decision support tools.

Extensive experience in leading platform development and capacity building projects in multicultural project environment for the benefit of communities in Sub-Sharan Africa and the Middle East.

Education

2017-2019 THE DELFT INSTITUTE FOR WATER EDUCATION

MSC. HYDROINFORMATICS

RESEARCH AREA: Water Resources Management: Water System Optimization

IHESIS: Optimization of Transboundary reservoir system in the Nile basin: The Tekeze - Atbara case study

2009-2014 ARBAMINCH UNIVERSITY

BSC, HYDRAULIC AND WATER RESOURCES ENGINEERING

RESEARCH AREA: Hydrologic Modeling

THESIS: Bedessa watershed Rainfall-Runoff Modelling using HEC-HMS

Work Experience _____

JAN2023-CURRENT REMOTE SENSING AND HYDROLOGY EXPERT [FULL TIME]



iMMAP Iraq

Project lead for Developing the River Basin Monitoring System for Tigris and Euphrates Rivers in Iraq Responsibilities:Provide technical support, Oversee platform development, GIS training design and delivery

JUL2014-JAN2023 LECTURER AND RESEARCHER IN HYDROINFORMATICS [FULL TIME]



University of Gondar

Institute of Technology, Gondar, Ethiopia

Lecturer under the Department of Hydraulic and Water Resources Engineering

Responsibilities: Lecturing undergraduate courses, Teaching assistance for post-graduate classes, Research and community service

JAN2022-JAN2023 GIS EXPERT [PART TIME]



ABEK Business Group

Water Consultancy, Gondar, Ethiopia

Project: Soil Survey and Land Suitability Evaluation Consultancy Service for Adaa and Becho Groundwater Irrigation Development and Rural Development Project

Responsibilities: Geospatial data processing, Analysis and Visualization/Map making

MAY2022-JAN2023 DEREJA ACADEMY ACCELERATOR PROGRAM (DAAP) TRAINING FACILITATOR [PART TIME]



Dereja.com

InfoMind Solutions, Addis Ababa, Ethiopia

Training facilitator for young fresh graduates on self-development and employability skill training Responsibilities: Facilitating training for 8 consecutive weeks, Follow up and weekly reporting

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JUL 2022-CURRENT AMHARIC TRANSLATOR [PART TIME]



https://onewater.blue/

Responsibilties: Translating articles to Amharic for better outreach

Teaching Experience

2014-2019 UNDERGRADUATE: CIVIL AND WATER ENGINEERING

Courses on Basic Hydraulics: Open channel water systems, Hydraulic Structures

Software demonstrations: GIS & Remote Sensing, Software Applications in Hydraulic Engineering

Research/Mentorship: Irrigation and Hydropower Project development final year projects

Laboratory demonstrations: Properties of fluid and hydrostatics experiments

2019-2023 POSTGRADUATE: HYDRAULIC ENGINEERING

Teaching assistant for Msc. courses : GIS for water management, computer programming applications in Numerical methods and Computational Hydraulics

Training in programming: Msc. Students on application of python in computational hydraulics

Research/Mentorship: Conducted research on Roof-top water harvesting, Groundwater potential mapping, water potential assessment Co-advised two Msc. Students in topics of hydrological modelling and remote sensing

Online teaching: www.youtube.com/@KibrewosenBelay

Research Interest

Water resources planning and management (WRPLM): Machine Learning-Based Web Framework for Enhanced Hydrological Predictions [Emphasis on application for water management decision support tool development]

Honors & Awards

- Orange Knowledge Program (OKP) scholarship: Linking good land and water governance for lasting food security [Refresher course organized by IHS, Institute for Housing and Urban Development Studies, Rotterdam, Netherlands]
- **Orange Knowledge Program (OKP) scholarship:** Towards sustainable food security [Refresher course organized by IHS, Institute for Housing and Urban Development Studies, Rotterdam, Netherlands]
- 2017 Netherlands Fellowship Program (NFP): Full scholarship to attend Msc in Hydroinformatics

Publication

CONFERENCES AND WORKSHOPS

- 2019 Tekeze-Atbara basin regional conference on water related studies [Organized by The hydraulics research center Sudan (HRC-Sudan), 24-25/03/2019]
- 2022 Water Resources under pressure: Challenges and future perspectives for Ethiopian water bodies [Organized by University of Kiel (CAU-Germany), 03-04/11/2022]

RESEARCH PROJECTS

- Mapping Geotechnical properties of Gondar City Soil [Fully funded research by University of Gondar, 11/10/2020-20/06/2021]
- Soil Survey and Land Suitability Evaluation Consultancy Service for Adaa and Becho Groundwater Irrigation Development and Rural Development Project[Funded by Ethiopian Ministry of low land and irrigation, 01/01-30/107/2022]

Certifications

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MAR 2023	HEAT & First Aid SENTRY SECURIT	Y
WAK ZUZS	HEAT & FIIST AIG SENTKT SECONIT	J

NOV 2022	Spatial Data Science: The New Frontier in Analytics. ESRI
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JUN 2022 U	sing Python	for Research	ı. edX
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MAY 2022 Dereja Academy Accelerator Program Training of Trainers. Dereja.com

MAY 2022 Going Places with Spatial Analysis. ESRI

MAY 2022 Python Basics for Data Science. edX

MAY 2022 AI for Everyone: Master the Basics. edX

https://drive.google.com/file/ **MAY 2022**

MAR 2022 Disrupting HydroInformatics. World Bank Group

Introduction to Data Science. edX

FEB 2022 Linking good land and water governance for lasting food security. Institute for Housing and Urban

Development Studies, Erasmus University Rotterdam

JUN 2021 Towards sustainable food security. Institute for Housing and Urban Development Studies, Erasmus

University Rotterdam

JUN 2018 Water professionals-IHE modelling lecture series. South Florida Water Management District, U.S.A



LANGUAGE SKILLS

MOTHER TONGUE: Amharic

OTHER LANGUAGE: English. IELTS Proficiency C1

WATER RESOURCES MODELLING TOOLS: ADVANCED PROFICIENCY

Python programming, C# programming, / MIKHYDROBasin, MIKE SHE / HEC-HMS, HEC-RAS, HECRessim / QSWAT, ArcGISPro, QGIS / Mullino (multi-criteria analysis), RIBASIM

WATER RESOURCES MODELLING TOOLS: HIGH PROFICIENCY

SQL programming / SOBEK / MODFLOW / WaterGEMS / AUTOCAD / MIKEHYDRORiver, MIKE URBAN

WATER RESOURCES MODELLING TOOLS: MEDIUM PROFICIENCY

EPANET / WEKA (Machine learning) / DrinC (Drought management)

Refrences.

Dima Hunati

iMMAP Iraq

Program Coordinator

dhunaiti@immap.org

Bewuketu Destaw

Abek Buisness Group

Technical Manager

abekconsultancy2005@gmail.com

Prof. Yasir A. Mohamed

IHE-Delft, The Netherlands First Thesis Supervisor (MSc) y.mohamed@un-ihe.org

Christian Fischer

Managing Director OneWater Blue

Chris@watersciencepolicy.com

Dr. Andreja Jonoski

IHE-Delft, The Netherlands Second Thesis Supervisor (MSc) a.jonoski@un-ihe.org

Academic diploma and IELTS result can be accessed here

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https://drive.google.com/file/ d/1HvnAVL2wmq1FKzmtBp2Lr5rTcE8nodU3/view?usp=sharing