



Curriculum vitae (CV)

1. Personal information:

Full name	Mitiku Badasa Moisa
Date of birth	1984 E.C/ 1991 G.C
Sex	Male
Nationality	Ethiopian
Region	Oromia
Address	East Wollega zone , Sibu Sire woreda, Bikila kebele
Place of Birth	Qaqe
Healthy status	Normal
Marital status	Married
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Information for publication	Researchgate link: https://www.researchgate.net/profile/Mitiku-Badasa-2 ORCID: https://orcid.org/0000-0003-1788-0035 Google scholar link: https://scholar.google.com/citations?user=7QK94M4AAAAJ&hl=en

2. Educational back-ground :

Primary School	Gunjo primary school (Grade1 th -8 th)
Secondary school	Sire secondary school (Grade 9 th -10 th)
Preparatory School	Sire preparatory school (Grade 11 th -12 th)
Higher Education	Bsc. Degree in Geo Information science form Wollega University and MSc Degree in Geographic Information System and Remote sensing from Jimma University

4. Work Experience

- ✓ I have 10 years teaching and learning, research and community service experiences in Wollega University
- ✓ Academic editor of PLOS ONE journal
- ✓ Co-founder and Director of Research and Publication at SESPS LAB (<https://socialecolab.com/people/>).
- ✓ Academic board member for Global Open Share Publishing
- ✓ Editor of Global Journal of Earth Science and Engineering
- ✓ Currently I am Editorial board member of “BOHR International Journal of Civil Engineering and Environmental Science (BIJCEES)” and board review of Acta Scientific Agriculture journal, Geology, Geophysics and Earth science.
- ✓ I have reviewed more than 100 papers for reputable international journals

5. Grant

Currently, I am participating as team leader in large scale project which funded by IHE and the project entitled “Stakeholder Participation to Enhance Drought Resilience through Reinforced Indigenous Knowledge and Smart Tools for Socially-Just Water Management (ABCDryBASIN) <https://www.un-ihe.org/news/water-and-development-partnership-programme-six-projects-selected-funding-0>

6. Referees

Referee 1

Birhanu Iticha Ayanssa (PhD)
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Referee 2

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7. Publication

I have published more than 71 articles on peer reviewed international journal which indexed in Scopus and web of science. Those papers are:

- Abebe, S., Deribew, K. T., Alemu, G., & Moisa, M. B. (2023). Modeling *Eragrostis tef* Zucc and *Hordeum vulgare* L cropland in response to food insecurity in the Southwestern parts of Ethiopia. *Heliyon* 9(2). e14535
- Arega, E., Deribew, K. T., Moisa, M. B., & Gemed, D. O. (2024). Assessment of soil erosion and prioritization of conservation and restoration measures using RUSLE and Geospatial techniques: the case of upper Bilate watershed. *Geomatics, Natural Hazards and Risk*, 15(1), 2336016.
- Çelik, M. A., Ağırkaya, M. B., Moisa, M. B., & Gemed, D. O. (2026). Air quality evaluation in Ethiopian major cities through Monte Carlo simulation, principal component analysis, and T test-integrated statistical frameworks. *Air Quality, Atmosphere & Health*, 19(4), 86.
- Chalchissa, F. B., Moisa, M. B., Roba, Z. R., Kipkulei, H. K., Deribew, K. T., Negash, D., ... & Gemed, D. O. (2025). Synergistic Pathways of Grand Ethiopian Renaissance Dam and Green Legacy Initiative in Shaping Hydrological Stress and Land Surface Temperature in Abay Basin. *Trees, Forests and People*, 101039.
- Chalchissa, F. B., Wakene, Y. A., Danno, B. L., Kuris, B. K., Roba, Z. R., & Moisa, M. B. (2026). Geospatial Modelling of Agro-climatic Suitability for *Coffea arabica* under CMIP6 Scenarios in the Western highlands of Ethiopia. *Trees, Forests and People*, 101216.
- Dagne SS, Hirpha HH, Tekoye AT, Roba ZR & Moisa MB. (2025). Quantifying urbanization-induced dynamics of urban sprawl using spatial metrics method in Adama City, Ethiopia. *Cogent social sciences* 11(1). 2433696

- Dagne, S. S., Roba, Z. R., Moisa, M. B., Deribew, K. T., Gemed, D. O., & Hirpha, H. H. (2024). Rainfall prediction for data-scarce areas using meteorological satellites in the case of the lake Tana sub-basin, Ethiopia. *Journal of Water and Climate Change*, 15(5), 2188-2211.
- Dejene, I. N., Manugula, S. S., Eticha, S. F., Garbaba, F. G., Dararo, K. F., Terfa, S. G., & Moisa, M. B. (2026). Geospatial analysis for land capability assessment and sustainable land use planning in Baro Akobo Basin, South-west Ethiopia. *Discov Sustain* 7, 381 (2026). <https://doi.org/10.1007/s43621-026-02729-5>
- Dejene, I. N., Moisa, M. B., & Gemed, D. O. (2023). Spatiotemporal monitoring of drought using satellite precipitation products: The case of Borena agro-pastoralists and pastoralists regions, South Ethiopia. *Heliyon*.9 (1). e13990
- Demelash M; Argaw T; Moisa M.B. (2025). Evaluation of surface irrigation potential areas using geospatial techniques: the case of the Nashe watershed, western Ethiopia. *Water Supply* 24(2). <https://doi.org/10.2166/ws.2025.046>
- Deribew, K. T., Arega, E., & Moisa, M. B. (2024). Prediction of the topo-hydrologic effects of soil loss using morphometric analysis in the upper Bilate watershed. *Bulletin of Engineering Geology and the Environment*, 83(5), 162.
- Gemed, D. O., Ejeta, T. M., Jabana, G. B., Alo, Z. K., Bekele, Y., Mamo, M. H., ... & Moisa, M. B. (2026). Impacts of Climate Change on Water Resources and Farming Community Adaptation Strategies in Southwestern Ethiopia. *Environmental and Sustainability Indicators*, 101207.
- Gemed, D. O., Katebu, Y. G., Moisa, M. B., Roba, Z. R., & Wolteji, B. N. (2025). Implications of forest loss and degradation on human-grivet monkey co-existence: challenges and current mitigation strategies in Southwestern Ethiopia. *Environmental Monitoring and Assessment*, 197(8), 959.
- Gemed, D. O., Katebu, Y. G., Moisa, M. B., Roba, Z. R., & Wolteji, B. N. (2025). Implications of forest loss and degradation on human-grivet monkey co-existence: challenges and current mitigation strategies in Southwestern Ethiopia. *Environmental Monitoring and Assessment*, 197(8), 959.
- Gemed, D. O., Moisa, M. B., Tesso, G. J., & Erena, M. G. (2025). Community perception of Morris's Bat (*Myotis morrisi*) and its conservation status in Southwestern Ethiopia.

Sustainable Futures, 10, 101257.

Gemeda, D. O., Moisa, M. B., Tesso, G. J., & Erena, M. G. (2025). Community perception of Morris's Bat (*Myotis morrisoni*) and its conservation status in Southwestern Ethiopia. *Sustainable Futures*, 10, 101257.

Gemeda, D.O.; Bejaoui, B.;Farhat, N.; Dejene, I.N.; Eticha, S.F.;Girma, T.; Ejeta, T.M.; Jabana,G.B.;Tufa, G.E.; Mamo, M.H.; et al (2024)Drought Characterization Using Multiple Indices over the Abbay Basin, Ethiopia. *Water* 2024, 16, 3143. <https://doi.org/10.3390/w16213143>

Gurmessa, M. M., Moisa, M. B., Ejigu, T. E., Roba, Z. R., Chalchissa, F. B., Demelash, M., ... & Gemeda, D. O. (2026). Land suitability analysis for sustainable cultivation of apple (*Malus domestica*) using integrated geospatial and multi-criteria modelling in Southwestern Ethiopia. *Discov Sustain* 7, 353 (2026). <https://doi.org/10.1007/s43621-026-02905-7>

Hailu, S., Deribew, K.T., Teferi, E. et al. Spatial assessment employing fusion logistic regression and frequency ratio models to monitor landslide susceptibility in the upper Blue Nile basin of Ethiopia: Muger watershed. *Environ Syst Res* 13, 54 (2024). <https://doi.org/10.1186/s40068-024-00382-3>

Hinkosa, L. B., Dinsa, M. L., Zalaqa, G. T., & Moisa, M. B. (2023). Modeling spatio temporal pattern of urban land use and land cover change by using geospatial technology: a case of Shambu Town, Horo Guduru Wallaga, Ethiopia. *Applied Geomatics*, 1-16.

Keno, H. A., Moisa, M. B., Kurs, B. K., & Chalchissa, F. B. (2025). Monitoring Land Surface Temperature Variations and Land Cover Dynamics in West Wollega, Ethiopia, Using Remote Sensing Technology. *Journal of African Earth Sciences*, 105812.

Megersa, W., Deribew, K. T., Abreha, G., Liqa, T., Moisa, M. B., Hailu, S., & Worku, K. (2023). Stochastic modeling of urban growth using the CA-Markov chain and multi-scenario prospects in the tropical humid region of Ethiopia: Mettu. *Geocarto International*, 38(1), 2240285.

Megersa, W., Deribew, K. T., Abreha, G., Liqa, T., Moisa, M. B., Hailu, S., & Worku, K. (2023). Stochastic modeling of urban growth using the CA-Markov chain and multi-scenario prospects in the tropical humid region of Ethiopia: Mettu. *Geocarto International*, 38(1), 2240285.

- Merga B. B., Moisa, M. B., & Gemed, D. O. (2024). Spatial analysis of malaria risk using geospatial techniques in Wabi Shebele river sub-basin, Southeastern Ethiopia. *Sustainable Environment*, 10(1), 2321681.
- Merga, B. B., Mamo, F. L., Moisa, M. B., Tiye, F. S., & Gemed, D. O. (2023). Assessment of flood risk by using geospatial techniques in Wabi Shebele River Sub-basin, West Hararghe Zone, southeastern Ethiopia. *Applied Water Science*, 13(11), 214.
- Merga, B. B., Moisa, M. B., Negash, D. A., Ahmed, Z., & Gemed, D. O. (2022). Land surface temperature variation in response to land-use and land-cover dynamics: a case of Didessa River sub-basin in Western Ethiopia. *Earth Systems and Environment*, 1-13.
- Mitiku, A., Deribew, K. T., Moisa, M. B., & Worku, K. (2024). Spatial evaluation of surface water irrigation potential areas to improve rural crop productivity in the Gomma district, southwestern Ethiopia. *Cogent Food & Agriculture*, 10(1), 2328424.
- Mohammednur, R. S., Deribew, K. T., Moisa, M. B., & Gemed, D. O. (2024). Landslide susceptibility zonation mapping using geospatial technologies and multi criteria evaluation techniques in the upper Didessa sub-basin, Southwest Ethiopia. *Geology, Ecology, and Landscapes*, 1-15.
- Moisa Badasa, M., Muleta Gurmessa, M., Geleta Oljira, D., Lamessa Dinsa, M., Tsegay Deribew, K., Reta Roba, Z., & Obsi Gemed, D. (2025). Spatial land suitability modeling for livestock production for closing yield gaps in Western parts of Ethiopia. *Cogent Food & Agriculture*, 11(1), 2547467.
- Moisa, M. B., & Gemed, D. O. (2021). Analysis of urban expansion and land use/land cover changes using geospatial techniques: a case of Addis Ababa City, Ethiopia. *Applied Geomatics*, 13(4), 853-861.
- Moisa, M. B., & Gemed, D. O. (2022). Assessment of urban thermal field variance index and thermal comfort level of Addis Ababa metropolitan city, Ethiopia. *Heliyon*, 8(8), e10185.
- Moisa, M. B., Babu, A., & Getahun, K. (2023). Integration of geospatial technologies with RUSLE model for analysis of soil erosion in response to land use/land cover dynamics: a case of Jere watershed, Western Ethiopia. *Sustainable Water Resources Management*, 9(1), 13. <https://doi.org/10.1007/s40899-022-00805-y>.
- Moisa, M. B., Bulto, T. W., Werku, B. C., Berkessa, Y. W., Chebo, A. K., Negash, D. A., & Gemed, D. O. (2023). Analyzing Wetland Dynamics Using Geospatial Techniques: A

- Case of Abay Choman and Jimma Geneti Watershed, Horo Guduru Wollega Zone, Western Ethiopia. *Air, Soil and Water Research*, 16, 11786221221150183. <https://doi.org/10.1177/117862212211501>
- Moisa, M. B., Busha Hinkosa, L., Negasa, G. F., Olika, G., Ijigu, T. E., Wedajo, Y. N., & Gemed, D. O. (2023). GIS and remote sensing Based Analysis of Land use and Land cover Change in the Upper Anger watershed, Western Ethiopia. *Geology, Ecology, and Landscapes*, 1-10. <https://doi.org/10.1080/24749508.2023.2237323>.
- Moisa, M. B., Dejene, I. N., & Gemed, D. O. (2022). Geospatial technology–based analysis of land use land cover dynamics and its effects on land surface temperature in Guder River sub-basin, Abay Basin, Ethiopia. *Applied Geomatics*, 1-13.
- Moisa, M. B., Dejene, I. N., & Gemed, D. O. (2022). Integration of geospatial technologies with multiple regression model for urban land use land cover change analysis and its impact on land surface temperature in Jimma City, southwestern Ethiopia. *Applied Geomatics*, 1-15.
- Moisa, M. B., Dejene, I. N., Deribew, K. T., Gurmessa, M. M., & Gemed, D. O. (2023). Impacts of forest cover change on carbon stock, carbon emission and land surface temperature in Sor watershed, Baro Akobo Basin, Western Ethiopia. *Journal of Water and Climate Change*. Vol 14 No 8, 2842 doi: 10.2166/wcc.2023.208.
- Moisa, M. B., Dejene, I. N., Hinkosa, L. B., & Gemed, D. O. (2022). Land use/land cover change analysis using geospatial techniques: a case of Geba watershed, western Ethiopia. *SN Applied Sciences*, 4(6), 1-10.
- Moisa, M. B., Dejene, I. N., Hirko, O., & Gemed, D. O. (2022). Impact of deforestation on soil erosion in the highland areas of western Ethiopia using geospatial techniques: a case study of the Upper Anger watershed. *Asia-Pacific Journal of Regional Science*, 1-26.
- Moisa, M. B., Dejene, I. N., Merga, B. B., & Gemed, D. O. (2022). Impacts of land use/land cover dynamics on land surface temperature using geospatial techniques in Anger River Sub-basin, Western Ethiopia. *Environmental Earth Sciences*, 81(3), 1-14.
- Moisa, M. B., Dejene, I. N., Merga, B. B., & Gemed, D. O. (2022). Soil loss estimation and prioritization using geographic information systems and the RUSLE model: a case study of the Anger River sub-basin, Western Ethiopia. *Journal of Water and Climate Change*, 13(3), 1170-1184.

- Moisa, M. B., Dejene, I. N., Roba, Z. R., & Gemed, D. O. (2022). Impact of urban land use and land cover change on urban heat island and urban thermal comfort level: a case study of Addis Ababa City, Ethiopia. *Environmental Monitoring and Assessment*, 194(10), 1-20. <https://doi.org/10.1007/s10661-022-10414-z>
- Moisa, M. B., Feyissa, M. E., Dejene, I. N., Tiye, F. S., Deribew, K. T., Roba, Z. R., & Gemed, D. O. (2023). Evaluation of land suitability for Moringa Oleifera tree cultivation by using Geospatial technology: The case of Dhidhessa Catchment, Abay Basin, Ethiopia. *Oil Crop Science* 8 (1) 45–55. <https://doi.org/10.1016/j.ocsci.2023.02.007>
- Moisa, M. B., Gabissa, B. T., Hinkosa, L. B., Dejene, I. N., & Gemed, D. O. (2022). Analysis of land surface temperature using Geospatial technologies in Gida Kiremu, Limu, and Amuru District, Western Ethiopia. *Artificial Intelligence in Agriculture*, 6, 90-99.
- Moisa, M. B., Gabissa, B. T., Wedajo, Y. N., Gurmessa, M. M., Deribew, K. T., Negasa, G. G., ... & Gemed, D. O. (2023). Analyzing the Correlation of Forest and Wetland with Land Surface Temperature by using Geospatial Technology: A case of Yayo district, Southwestern Ethiopia. *Geocarto International*, 2023, VOL. 38, NO. 1, 2256300 <https://doi.org/10.1080/10106049.2023.2256300>
- Moisa, M. B., Gurmessa, M. M., Karuppanan, S., Dejene, I. N., Roba, Z. R., Deribew, K. T., & Rebouh, N. Y. (2026). Geospatial analysis of land suitability for Teff (*Eragrostis tef*) cultivation in the Deben watershed, Western Ethiopia. *GeoJournal*, 91(2), 59.
- Moisa, M. B., Iticha, B., Chalchissa, F. B., Roba, Z. R., Kipkulei, H. K., Deribew, K. T., ... & Tariq, A. (2026). Geospatial evidence of enhanced soil carbon storage, moisture stability, and microclimate mitigation under Ethiopia's green legacy initiative. *Environmental Monitoring and Assessment*, 198(3), 223.
- Moisa, M. B., Iticha, B., Chalchissa, F. B., Roba, Z. R., Kipkulei, H. K., Deribew, K. T., ... & Tariq, A. (2026). Mapping the Spatiotemporal Nexus of Soil Moisture and Salinity in Semi-Arid Croplands for Sustainable Agriculture. *Earth Syst Environ* (2026). <https://doi.org/10.1007/s41748-025-01007-0>
- Moisa, M. B., Merga, B. B., & Gemed, D. O. (2022). Land suitability evaluation for surface irrigation using geographic information system: a case study in Didessa River Sub-Basin, Western Ethiopia. *Sustainable Water Resources Management*, 8(3), 1-12.
- Moisa, M. B., Merga, B. B., & Gemed, D. O. (2022). Multiple indices-based assessment of

- agricultural drought: A case study in Gilgel Gibe Sub-basin, Southern Ethiopia. *Theoretical and Applied Climatology*, 148(1), 455-464.
- Moisa, M. B., Merga, B. B., & Gemed, D. O. (2022). Urban heat island dynamics in response to land use land cover change: a case of Jimma city, southwestern Ethiopia. *Theoretical and Applied Climatology*, 1-11.
- Moisa, M. B., Merga, B. B., Deribew, K. T., Feyissa, M. E., Gurmessa, M. M., & Gemed, D. O. (2023). Urban green space suitability analysis using geospatial techniques: a case study of Addis Ababa, Ethiopia. *Geocarto International*, (just-accepted), 1-17. <https://doi.org/10.1080/10106049.2023.2213674>.
- Moisa, M. B., Merga, B. B., Gabissa, B. T., & Gemed, D. O. (2022). Assessment of land suitability for oilseeds crops (sesame and groundnut) using geospatial techniques: In the case of Diga district, East Wollega zone, western Ethiopia. *Oil Crop Science*, 7(3), 127-134.
- Moisa, M. B., Negash, D. A., Merga, B. B., & Gemed, D. O. (2021). Impact of land-use and land-cover change on soil erosion using the RUSLE model and the geographic information system: a case of Temeji watershed, Western Ethiopia. *Journal of Water and Climate Change*, 12(7), 3404-3420.
- Moisa, M. B., Negash, D., Reta Roba, Z., Debesa Wedajo, G., Tsegay Deribew, K., Benti, F., & Obsi Gemed, D. (2025). Spatial analysis of urban expansion and its effects on land surface temperature using geospatial techniques in Addis Ababa and Shaggar Cities, Ethiopia. *All Earth*, 37(1), 37 (1), 1-23. <https://doi.org/10.1080/27669645.2025.2493434>
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- Moisa, M. B., Roba, Z. R., Purohit, S., Deribew, K. T., & Gemed, D. O. (2025). Evaluating the impact of land use and land cover change on soil moisture variability using GIS and remote sensing technology in southwestern Ethiopia. *Environmental Monitoring and Assessment*, 197(7), 1-21.
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- Moisa, M. B., Tufa, C. A., Gabissa, B. T., Gurmessa, M. M., Wedajo, Y. N., Feyissa, M. E., & Gemed, D. O. (2022). Integration of geospatial technologies with multi-criteria decision analysis for aquaculture land suitability evaluation: The case of Fincha'a River Sub-basin, Western Ethiopia. *Journal of Agriculture and Food Research*, 100448.
- Muleta Gurmessa, M., Badasa Moisa, M., Jira Tesso, G., & Geleta Erena, M. (2024). Impacts of land use land cover change on Leopard (*Panthera pardus*) habitat suitability and its effects on human wildlife conflict in Hirkiso forest, Sibu Sire District, Western Ethiopia. *All Earth*, 36(1), 1-24.
- Negash, D. A., Moisa, M. B., Merga, B. B., Sedeta, F., & Gemed, D. O. (2021). Soil erosion risk assessment for prioritization of sub-watershed: the case of Chogo Watershed, Horo Guduru Wollega, Ethiopia. *Environmental Earth Sciences*, 80(17), 1-11.
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- Negeri, B. G., Xiuguang, B., Olana, G. S., Fufa, H. W., Negera, C. U., Wakwoya, Y. B., ... & Duguma, A. L. (2025). Does Small-Scale Irrigation Participation Affect the Income of Households in Ethiopia? Insights From the Horo Guduru Wollega Zone. *Irrigation and Drainage*. <https://doi.org/10.1002/ird.70086>
- Roba, Z. R., Moisa, M. B., Aymeku, T. G., Daba, D. E., & Gemed, D. O. (2025). Spatial analysis of land use and cover changes: Implications of Green Legacy initiative on climate action in upper Awash basin, Ethiopia. *Trees, Forests and People*, 100875.
- Roba, Z. R., Moisa, M. B., Chalchissa, F. B., Geda, M. B., Aymeku, T. G., Deribew, K. T., & Gemed, D. O. (2026). Geospatial Evaluation of Ecosystem Service Values and Carbon Stock Dynamics in the Yayu Coffee Forest Biosphere Reserve, Allobar Zone, Ethiopia. *Trees, Forests and People*, 101259.
- Roba, Z. R., Moisa, M. B., Purohit, S., Deribew, K. T., & Gemed, D. O. (2025). Assessing the impacts of forest cover change on carbon stock and soil moisture dynamics using geospatial techniques: a case study of Nensebo forest, Southern Ethiopia. *Environmental Monitoring and Assessment*, 197(2), 169.
- Roba, Z. R., Moisa, M. B., Purohit, S., Deribew, K. T., & Gemed, D. O. (2025). Assessment of

soil erosion and sediment yield in response to land use and land cover changes using geospatial techniques in Dumuga Watershed, Ethiopia. *All Earth*, 37(1), 2460917

Tamene, G. A., Moisa, M. B., Begna, D. N., Chalchissa, F. B., Roba, Z. R., Kipkulei, H. K., ... & Gemed, D. O. (2026). Modeling urban land use and land cover change using multiple machine learning algorithms in central Ethiopian cities. *Discov Sustain* (2026). <https://doi.org/10.1007/s43621-026-03296-5>

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