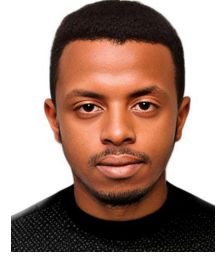


# CURRICULUM VITAE

## PERSONAL INFORMATION

**Name** Kalid Hassen Yasin  
**Address** A5 Addis Ababa – Metu Road, 1000, Addis Ababa, Ethiopia  
**Telephone** +251 923 328 893 | +251 941 882 888  
**E-mail** Kalid.hassen@haramaya.edu.et | kalidh84@gmail.com  
**Nationality** Ethiopian  
**Date of birth** 17 June 1997



## WORK EXPERIENCE

### Lecturer and Researcher:

**Haramaya University | Haramaya, Ethiopia | Mar 2021 – Present**

- Developed and taught courses in GIS and Remote Sensing.
- Assessed student performance through exams, assignments, and projects.
- Conducted research on water and gully erosion, ecotourism potential mapping, spatial planning, and machine learning applications to geospatial data; resulting in multiple publications.
- Collaborated with interdisciplinary teams and contributed to national and international conferences.

### Technical Consultant:

**Oromia Chamber of Commerce & Sectorial Associations | Addis Ababa, Ethiopia | Aug 2024 – Feb 2025**

- Diagnosed and resolved technical issues; optimized system performance and aligned workflows with best practices.
- Implemented tailored solutions that streamlined accounting processes and enhanced data accuracy.
- Delivered targeted trainings for finance staff to ensure smooth adoption of upgrades.
- Advised on upgrades, data security, backup strategies, and maintenance to ensure reliability, scalability, and compliance.

### GIS Consultant

**Haramaya Land Administration and Use Office | Haramaya, Ethiopia | Oct 2021 – Jul 2022**

- Produced land index maps and adjudication certificates.
- Customized and optimized GIS workflows for efficient data collection and surveying.
- Performed QC on spatial and non-spatial databases to ensure data integrity.
- Processed & refined spatial data from field observations, aerial photographs, and satellite imagery.

## EDUCATION AND TRAINING

ASc, Computer Science (GPA: 3.25) — *University of the People (Online)* | Sep 2023 – Jun 2025)

BSc, Geo-information Science (GPA: 3.68) — *Haramaya University* | Oct 2017 – Feb 2021

MSc, Remote Sensing (GPA: 3.93) — *Space Science & Geospatial Institute, Addis Ababa University* | 2022 – 2024

## CERTIFICATES, MOOCS & COURSES

- UAVs in Precision Agriculture (Geoversity and ITC, 2025)
- Exploration of Copernicus and Sentinel Data (Geoversity and ITC, 2025)
- High-resolution Crop Monitoring for Food Security Using EO (EO AFRICA R&D Facility, 2025)
- Drought Assessment and Monitoring from Space v3 (EO AFRICA R&D Facility and ITC, 2025)
- Introduction to Remote Sensing (Geo University, 2025)
- Remote Sensing and Satellite Image Processing with the EOS Platform (Geo University, 2025)
- Coordinate Reference Systems, Projections, and Spatial Data Representation (Geo University, 2025)
- Learn the FOSS4G Stack: QGIS 3 Desktop (Geo University, 2025)
- Sentinel Hub Webinar Series (Geo University, 2025)
- Hyperspectral Thermal Image Unmixing (Geo University, 2025)

- Tutorial on CloudSigma Online Platform (Geo University, 2025)
- Digital Image Processing with OpenCV in Python (Geo University, 2025)
- Introduction to cloudeo's Geospatial Solutions (Geo University, 2025)
- Remote sensing, QGIS and data import (ALISON, 2022)
- Geospatial analysis in urban planning (ALISON, 2022)
- HarvardX: CitiesX; Data Science: Visualization; Health Effects of Climate Change (edX, 2022)
- IBM: AI for Everyone; Python Basics for Data Science (edX, 2022)
- ColombiaX: Machine Learning for Data Science and Analytics (edX, 2022)
- DelftX: Introduction to Water and Climate (edX, 2022)
- Linux Foundation: Business Consideration for 5G with Edge, IoT and AI (edX, 2022)
- University of Washington: Preparing to Network in English (edX, 2022)
- University of Colorado Boulder: Essential Linear Algebra for Data Science (Coursera, 2023)
- Udemy: Data Science in R (2024); Complete Linear Regression in Python (2024); Java Programming for Beginners (2024)

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## CONFERENCES, SEMINARS & WORKSHOPS

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### Seminar:

- “It's time to assign nonforested, nonagricultural lands a global designation” — *Organized by Cambridge Prisms* | Attendee

### Workshop:

- Promoting Equity and Social Justice in Online Work Environments — *Hosted by University of the People* | Participant
- In-house Curriculum review— *Hosted by Haramaya University* | Participant
- National Curriculum review— *Hosted by Haramaya University* | Participant

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## PRESENTATIONS & ACTIVITIES

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- Annual Conference of the Space Science & Geospatial Institute, Addis Ababa, Ethiopia (Jun 2024)
- Planetary, Astronomy, Magnetism, & Space Weather Annual Conference, Addis Ababa (Jun 2024)
- First Pan African University, International Conference, University of Ibadan, Nigeria (Nov 2024)
- and Second Pan African conference, Algeria Telmcan (Dec 2025)
- Ethio Space Kids Club Summer Camp: Instructor (Aug–Sep 2023)

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## PEER REVIEW ACTIVITIES

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- International Journal of Applied Earth Observation and Geoinformation (Elsevier), 2025 (8x)
  - Discover Environment (Springer Nature), 2025 (7x)
  - Journal of Environmental Management (Elsevier), 2025 (4x)
  - Heliyon (Elsevier), 2025 (4x)
  - Discover Geoscience (Springer Nature), 2025 (3x)
  - Discover Sustainability (Springer Nature), 2025 (3x)
  - Geoderma (Elsevier), 2025 (1x)
  - Marine Pollution Bulletin (Elsevier), 2025 (1x)
  - The Egyptian Journal of Remote Sensing and Space Sciences (Elsevier), 2025 (1x)
  - Transportation Research Part D: Transport and Environment (Elsevier), 2025 (1x)
  - Discover Data (Springer Nature), 2025 (1x)
  - Discover Applied Sciences (Springer Nature), 2025 (1x)
  - Environmental Earth Sciences (Springer Nature), 2025 (1x)
  - Scientific Reports (Nature), 2025 (1x)
  - Environmental Monitoring and Assessment (Springer Nature), 2025 (1x)
  - Discover Water (Springer Nature), 2024 (1x)
  - Environmental Systems Research (Springer Nature), 2024 (1x)
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## TECHNICAL & DIGITAL SKILLS

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### *Geospatial & Remote Sensing:*

- ArcGIS, QGIS, ERDAS, SAGA, GRASS, Google Earth Engine, ILWIS
- Photogrammetry; UAV/Drone; Radar and optical satellite imagery;

### *Programming & Data Science:*

- R, Python, Java script (scripting for data analysis and machine learning)
- SPSS for statistical analysis

### *Surveying:*

- Handheld & Differential GPS, Theodolite
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## PUBLICATIONS

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- **Yasin, K.H.**, Gelete, T.B., Kebede, E., Iguala, A.D., Abdo, M.Y., 2025. Advanced geospatial and machine learning models identify groundwater potential and reveal storage dynamics in Ethiopia's abbay river basin. *J. Hydrol. Reg. Stud.* 61, 102762. <https://doi.org/10.1016/j.ejrh.2025.102762>
- **Yasin, K. H.**, Yasin, M. I., Iguala, A. D., Gelete, T. B., & Kebede, E. (2025). Methodological Integration of Machine Learning and Geospatial Analysis for PM10 Pollution Mapping. *MethodsX*, 14(April), 103322. <https://doi.org/10.1016/j.mex.2025.103322>
- **Yasin, K. H.**, Yasin, M. I., Iguala, A. D., Gelete, T. B., Tulu, D., & Kebede, E. (2025). Predictive machine learning and geospatial modeling reveal PM10 hotspots and guide targeted air pollution interventions in Addis Ababa, Ethiopia. *Discover Applied Sciences*, 7(4). <https://doi.org/10.1007/s42452-025-06723-w>
- **Yasin, K. H.**, Iguala, A. D., & Gelete, T. B. (2025). Spatiotemporal analysis of urban expansion and its impact on farmlands in the central Ethiopia metropolitan area. *Discover Sustainability*, 6(1). <https://doi.org/10.1007/s43621-024-00749-7>
- **Yasin, K. H.** (2024). Characterizing and modeling spatiotemporal trends in rangelands: *Prosopis juliflora* impact in middle Awash Basin, Ethiopia. *Journal of Environmental Management*, 371(September). <https://doi.org/10.1016/j.jenvman.2024.123336>
- Gelete, T. B., Pasala, P., Abay, N. G., Woldemariam, G. W., **Yasin, K. H.**, Kebede, E., & Aliyi, I. (2024). Integrated machine learning and geospatial analysis enhanced gully erosion susceptibility modeling in the Erer watershed in Eastern Ethiopia. *Frontiers in Environmental Science*, 12. <https://doi.org/10.3389/fenvs.2024.1410741>
- Woldemariam, G. W., Awoke, B. G., & **Yasin, K. H.** (2024). Soil Erosion Risk Assessment—A Key to Conservation Planning in the Ethiopian Highland in East Hararghe. In *Springer Geography: Vol. Part F3289*. Springer Nature Switzerland. [https://doi.org/10.1007/978-3-031-60251-1\\_8](https://doi.org/10.1007/978-3-031-60251-1_8)
- **Yasin, K. H.** (2024). Urban Land Adjudication Mapping and Parcel Coding: A Practical Guide. 112. <https://my.lap-publishing.com/catalog/details//store/gb/book/978-620-7-65005-7/urban-land-adjudication-mapping-and-parcel-coding-a-practical-guide>
- **Yasin, K. H.**, Gelete, T. B., Iguala, A. D., & Kebede, E. (2024). Optimal interpolation approach for groundwater depth estimation. *MethodsX*, 13(May), 102916. <https://doi.org/10.1016/j.mex.2024.102916>
- **Yasin, K. H.**, Woldemariam, E. C., Woldemariam, G. W., Gelete, T. B., & Yuya, I. A. (2023). Abattoir Site Suitability Modeling Using a Geographic Information System and Multi-Criteria Evaluation—A Case Study of Dire Dawa City, Ethiopia. *KN - Journal of Cartography and Geographic Information*, 73(2), 161–178. <https://doi.org/10.1007/s42489-023-00134-w>
- **Yasin, K. H.**, & Woldemariam, G. W. (2023). GIS-based ecotourism potentiality mapping in the East Hararghe Zone, Ethiopia. *Heliyon*, 9(8), e18567. <https://doi.org/10.1016/j.heliyon.2023.e18567>
- Woldemariam, G. W., **Yasin, K. H.**, & Iguala, A. D. (2023). Water Erosion Risk Assessment for Conservation Planning in the East Hararghe Zone, Ethiopia. *Geosciences (Switzerland)*, 13(6). <https://doi.org/10.3390/geosciences13060184>

Gelete, T.B., Tulu, D., **Yasin, K.H.** *et al.* Machine learning predictions of climate change effects on nearly threatened bird species (*Crithagra xantholaema*) habitat in Ethiopia for conservation strategies. *Sci Rep* 15, 36972 (2025). <https://doi.org/10.1038/s41598-025-20952-4>

## VOLUNTEERING

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- Cadastral mapping and surveying, Sebeta City Municipality (Jun–Aug 2019)
- Urban planning support, Furi Sub-City Plan and Development Office, Sheger City (Jun–Nov 2024)