

# Dr. AHMED A. H. SIDDIG

Visiting Scholar – Harvard Forest, Harvard University  
Associate Professor of Ecology and Environmental Conservation, University of Khartoum, Sudan

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## Curriculum Vitae

### BIOSKETCH

*I am an applied ecologist whose research investigates the impacts of environmental changes on biodiversity & ecosystem services. I am deeply interested in the long-term monitoring of ecological change. My research is focused on plants and animals, spans wetlands, drylands, savannas, and forests, and is primarily situated in North America and Africa. I combine empirical field observations, experiments, and modeling methods; teaching, mentoring, and outreach are crucial components of my career.*

### EDUCATION

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| <b>PhD</b> | University of Massachusetts Amherst, Environmental Conservation | 2011 – 2015 |
| <b>MSc</b> | University of Khartoum, Desertification Studies                 | 2007 – 2009 |
| <b>BSc</b> | University of Khartoum, Faculty of Forestry (class one)         | 2001 – 2006 |

### HONORS AND AWARDS

1. **2026:** Philip Schwartz Fellowship – Alexander Von Humboldt Foundation, Germany (2026-27)
2. **2025:** Research Mobility Grant from the Arab German Young Academy (AGYA) – 15,000 EUR
3. **2025:** 2025 UMASS Amherst, College of Natural Sciences (CNS) [Early Career Alumni Award](#)
4. **2025:** Tandem Project Grant from the Arab German Young Academy (AGYA) – 50,000 EUR
5. **2023:** Charles Bullard Fellowship in Forestry Research, Harvard University, USA (2023-25)
6. **2023:** Research Mobility Grant from the Arab German Young Academy (AGYA) – 14,000 EUR
7. **2022:** Elected Member and Fellow of the Arab German Young Academy (AGYA) – 2022-27
8. **2021:** Deanship of Scientific Research Prize, University of Khartoum, for the year 2020-21
9. **2018:** Ministry of Higher Education and Scientific Research, Sudan Research Grant. \$11,000 USD.
10. **2015:** DAAD Postdoctoral Researchers International Mobility Experience fellowship (2015- 17)
11. **2014:** UMass Amherst, Graduate School Dissertation Research Grant (\$1,000)
12. **2014:** Harvard Forest graduate student travel grant (\$215)
13. **2014:** UMass Amherst ECO graduate students travel grant (\$250)
14. **2010:** PhD Scholarship for Merit in Environmental Sciences from Islamic Development Bank; 3 years (\$145,000)

### PROFESSIONAL EXPERIENCE

1. **Harvard Forest, Harvard University, USA** 16/09/2023 to present  
Job Title: Charles Bullard Research Fellow  
Job Description: Conduct Research about Forest Ecology in Massachusetts, mentor students in Harvard's Summer Research Program in Ecology, and write articles and grant proposals.
2. **University of Khartoum, Sudan** 01/04/2020 to 03/30/2021  
Job Title: Director of the Training and Teaching Assistants Administration  
Job Description: appointment, promotion, & training of teaching assistants & academic staff
3. **Faculty of Forestry, University of Khartoum, Sudan** 01/01/2020 to 03/30/2020  
Job Title: Deputy Dean  
Job Description: Head of the academic office & contribute to faculty management and leadership.
4. **Faculty of Forestry, University of Khartoum, Sudan** 07/01/2019 to present

Job Title: Associate Professor

Job Description: teaching graduate & undergraduate courses, supervising students' projects, designing & conducting research, collecting data, writing articles, grant writing, and helping with outreach and community services

**5. University of Khartoum, Sudan**

01/10/2017 to 12/31/2019

Job Title: Head of Training & Information Unit, Faculty of Forestry

Job Description: design training workshops & manage training courses for stakeholders

**6. Faculty of Forestry, University of Khartoum, Sudan**

04/01/2017 to 06/30/2019

Job Title: Assistant Professor

Job Description: teaching graduate & undergraduate courses, supervising students' projects, designing & conducting research, collecting data, writing articles, grant writing, and helping with outreach and community services.

**7. Dept. of Biometry, University of Freiburg, Germany** 11/01/2016 to 03/31/2017

Job Title: Postdoctoral Research Fellow

Job Description: design & conduct research, collect data, write articles, and participate in seminars & talks

**8. Fac. Of Forestry, University of British Columbia, Canada** 11/01/2015 to 10/30/2016

Job Title: Postdoctoral Research Fellow

Job Description: design & conduct research, collect data, write articles, mentor undergraduate students, and participate in seminars & talks.

**9. Harvard Forest, Harvard University, USA**

05/01/2013 to 05/15/2015

Job Title: Graduate Research Assistant

Job Description: conduct research, collect data, write articles, mentor undergraduate students, and participate in seminars & talks.

**10. Faculty of Forestry, University of Khartoum, Sudan**

02/10/2010 to 01/04/2011

Job Title: Lecturer

Job Description: teaching undergraduate courses, leading field tours, and helping with outreach and community services.

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**PUBLICATIONS**

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• **Journal Articles:**

**33.** Ali, F. S. M., **Siddig, A. A. H.**, Sommer, J. H., Borgemeister, C., & Biber-Freudenberger, L. (2026).

Valuing ecosystem services in Sudan: A participatory study of the Okalma reserved forest. *Trees, Forests and People*, 23, 101139.

**32.** **Siddig, A. A. H.**, Omer, A., Hasoba, A., Khalid, S., Hart, C., & Barker Plotkin, A. (2026). Backing ecologists to succeed and thrive (BEST) in crisis zones: Inspirations from the 2024 ESA annual meeting. *The Bulletin of the Ecological Society of America*.

**31.** Gadallah, N. A. H., Gone Bi, Z. B., Hakam, O., **Siddig, A. A. H.**, & Ongoma, V. (2025). Modeling the impacts of climate change on the future distribution of the baobab tree (*Adansonia digitata* L.) in Sudan. *Modeling Earth Systems and Environment*, 11, 404.

**30.** Yasin, E. H. E., **Siddig, A. A. H.**, Diab, E. E., & Czimer, K. (2025). Evaluating the efficiency of two ecological indices in monitoring forest degradation in the drylands of Sudan. *Remote Sensing*, 17(13), 2298.

**29.** Hasoba, A. M. M., **Siddig, A. A. H.**, Czimer, K., Omer, A., Gadallah, N. A. H., Adam, M. M. A., & Barker Plotkin, A. (2025). Synthesizing knowledge about tree diversity, density, and distribution in the savanna woodlands of Sudan. *Trees, Forests and People*, 19, 100906.

**28.** Gadallah, N. A. H., Gone Bi, Z. B., Ongoma, V., Omer, A., Ahmed, A. E. M., Hasoba, A. M. M., & **Siddig, A. A. H.** (2025). Investigating tree diversity and structure across varying land cover classes and altitudes in the savanna woodlands of Sudan. *Frontiers in Forests and Global Change*, 8, 1581188.

27. Elmardi, M. E. M., Hassana, M. M. A., Ibrahim, M. E. A., Hamid, A. A., & **Siddig, A. A. H.** (2025). Impact of fire frequency on tree diversity in Dinder National Park (DNP), Sudan, using geospatial technology. *Journal of Geoscience and Environment Protection*, 13(3), 168–183.
26. Ghoraba, S. M. M., Suárez, E. L., Almahasheer, H., **Siddig, A. A. H.**, Nagi, H. M. H., & Valderrábano, M. (2024). IUCN Red List of Ecosystems, mangroves of the Red Sea and Gulf of Aden. *EcoEvoRxiv*.
25. Dafa-Alla, M. D., Gibreel, H. H., **Siddig, A. A. H.**, Yagoub, Y. E., Abdelkarim, H. A., Saeed, K. H. T., & Abuelbasher, A. I. (2024). Exploring the diversity of trees and the ecological value of mountain forests in the Blue Nile region of Sudan. *Open Journal of Ecology*, 14(3), 245–256.
24. Koko, S., **Siddig, A. A. H.**, Yasin, E. E., Gadallah, N. A. H., Adam, M. M. A., Hasoba, A. M. M., & Mohammed, A. (2023). Do observations during patrolling trips detect changes in wildlife presence & diversity in national parks? *Open Journal of Ecology*, 13(11), 794–805.
23. Elzaki, I. A. E., **Siddig, A. A. H.**, Yasin, E. H. E., Attaelmnan, A. A., Gadallah, N. A. H., Hasoba, A. M. M., Nasreldeen, M. A., Yagoub, Y. E., & Czimber, K. (2023). Effect of simulated drought and rainfall fluctuation on seedling growth of two savannah tree species in Sudan: An experimental exploration. *Acta Silvatica & Lignaria Hungarica*, 19(1), 37–50.
22. Awadalla Abass, F., Mubarak Khugali, S., Mohammed Ahmed, N., Laamrani, A., Elhadi, E., **Siddig, A.**, & Kouassi, E. (2023). Estimating ecological characteristics and carbon stock in uneven-aged plantations of *Acacia senegal* L. in the savannah woodlands of Sudan. *Journal of Environmental Protection*, 14(5), 404–418.
21. Bai, Y., Dai, Q., Hai, J., Wang, Q., Liao, D., Liu, G., Wang, Y., Huang, J., Zhang, R., **Siddig, A. A. H.**, Bao, W., & Yang, G. (2023). Manganese slag amendment reduces greenhouse gas emissions from paddy soil. *Atmosphere*, 14(1), 131.
20. Dafa-Alla, D. M., Abuelbasher, A., Gibreel, H. H., Yagoub, Y. E., **Siddig, A. A. H.**, & Hasoba, A. M. M. (2022). Assessing tree diversity in Jebel Elgerri forest reserve in the Blue Nile state, Sudan. *Journal of Forest and Environmental Science*, 38(3), 174–183.
19. Abuelbasher, A. I., Dafa-Alla Ahmed, D. M., **Siddig, A. A. H.**, Yagoub, Y. E., & Gibreel, H. H. (2022). Analysis of composition and diversity of natural regeneration of woody species in Jebel Elgerri dry land forest east of Blue Nile state, Sudan. *Journal of Forest and Environmental Science*, 38(2), 1–9.
18. **Siddig, A. A. H.**, & Hasoba, A. M. M. (2022). Charismatic or abundant species are not always good indicators for monitoring biodiversity & ecosystem changes. *Ecology & Evolutionary Biology*, 7(2), 14–17.
17. **Siddig, A. A. H.**, & Ellison, A. M. (2022). How is the coup impacting science and scientists in Sudan? *OSF Preprints*.
16. Gadallah, N. A. H., Taha, I. S. A., Hano, A. I. A., **Siddig, A. A. H.**, & Bo, H. J. (2022). Integrated approach for assessment and monitoring of forest conditions in the drylands of Sudan. *Arid Ecosystems*, 12(2), 142–153.
15. Abdelkarim, H. A., Dafa-Alla, D. M., Yagoub, Y. E., & **Siddig, A. A. H.** (2021). Composition, structure, and regeneration status of *Hyphaene thebaica* (L.) Mart. natural forests in the dry lands of Sudan. *Agriculture & Forestry Journal*, 5(2), 82–88.
14. Hasoba, A. M. M., **Siddig, A. A. H.**, & Yagoub, Y. E. (2020). Exploring the diversity of trees and the stage structure of the Nuara reserved savanna woodland in southeastern Sudan. *Journal of Arid Land*.
13. **Siddig, A. A. H.**, Richardson, J. S., & Dormann, C. F. (2020). Drought amplifies the impacts of salt pollution in pond ecosystems: An experimental exploration. *Fundamental and Applied Limnology*, 194(1), 1–9.
12. **Siddig, A. A. H.** (2019). Why is biodiversity data-deficiency an ongoing dilemma in Africa? *Journal for Nature Conservation*, 50, 125719.
11. Adam, M. M. A., Hano, A. I., Yagoub, Y. E., **Siddig, A. A. H.**, Gibreel, H. H., Musa, O. S., & Mohammed, K. S. (2019). Assess the status of urban trees and their role in environmental services in Umdorman locality, Sudan. *American Journal of Environment and Sustainable Development*, 5(2), 22–27.
10. Mohammed, K. S., Yagoub, Y. E., **Siddig, A. A. H.**, Musa, O. S., Ibrahim, M. E. A., & Adam, M. M. A. (2019). Detection and monitoring of forest fires in Dinder National Park, Sudan, during 2010-2014 using remote sensing technology. *American Journal of Environment and Sustainable Development*, 4(1), 1–5.
9. **Siddig, A. A. H.**, Ellison, A. M., & Ochs, A. (2019). Do terrestrial salamanders indicate ecosystem changes in New England forests? *Forests*, 10(2), 154.
8. Yagoub, Y. E., Li, Z. Q., **Siddig, A. A. H.**, Musa, O. S., & Anjum, M. N. (2018). Glacier mass-balance variation in China during the past half-century. *Journal of Geoscience and Environment Protection*, 6(5), 37–58.
7. Yagoub, Y. E., Musa, O. S., **Siddig, A. A. H.**, Bo, Z., Zhongqin, L., & Feiteng, W. (2017). Assessing the impacts of land use on vegetation cover in eastern Sudan. *International Journal of Research in Agricultural Science*, 4(2), 70–76.

6. **Siddig, A. A. H.** (2017). Pond ecosystems in the era of environmental changes. *Branchlines - The University of British Columbia's Forestry Newsletter*, 28(1), 20.
5. Ochs, A., & **Siddig, A. A. H.** (2017). Response of red-backed salamanders (*Plethodon cinereus*) to changes in hemlock forest soil driven by invasive hemlock woolly adelgid (*Adelges tsugae*). *Environments*, 4(1), 8.
4. **Siddig, A. A. H.**, Ellison, A. M., & Mathewson, B. G. (2016). Assessing and predicting the impacts of the decline of eastern hemlock (*Tsuga canadensis*) stands on the occurrence of terrestrial amphibians in New England forests. *Ecosphere*, 7(11), e01574.
3. **Siddig, A. A. H.**, Ellison, A. M., Ochs, A., Villar-Leeman, C., & Lau, M. K. (2016). How do ecologists select and use indicator species to monitor ecological changes: Insights from 14 years of publication in *Ecological Indicators*. *Ecological Indicators*, 60, 223–230.
2. **Siddig, A. A. H.**, Ellison, A. M., & Jackson, S. (2015). Calibrating abundance indices with population size estimators of red back salamanders (*Plethodon cinereus*) in a New England forest. *PeerJ*, 3, e952.
1. **Siddig, A. A. H.** (2014). Biodiversity of Sudan: Between the harsh conditions, political instability, and civil wars. *Biodiversity Journal*, 5(4), 545–555.

- **Books (Book Chapters):**

4. Gadallah, N. A. H., & **Siddig, A. A. H.** (2024). Space and ground-based earth observations for hazards valuation and disaster risk management in the era of climate change. In *Revolutionizing Earth Observation - New Technologies and Insights*. IntechOpen.
3. Yasin, E. H. E., **Siddig, A. A. H.**, & Czimber, K. (2024). Forests at the crossroads: Biodiversity conservation in the era of climate change. In *Sustainable Forest Management - Surpassing Climate Change and Land Degradation*. IntechOpen.
2. Yasin, E. H. E., **Siddig, A. A. H.**, Deiab, E. E., Czimber, K., Hasoba, A. M. M., & Osman, A. (2023). Forest degradation in dryland ecosystems of Sudan: Review of the causes, consequences, assessment methods, and potential solutions. In *Conservation, Exploitation, and Restoration of Mountain Ecosystem*. IntechOpen.
1. **Siddig, A. A. H.**, Abdel Magid, T. D., El-Nasry, H. M., Hano, A. I., & Awad, A. (2018). Biodiversity of Sudan. In T. Pullaiah (Ed.), *Global Biodiversity, Volume 3: Selected Countries in Africa*. Apple Academic Press (distributed by CRC Press).

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## PRESENTATIONS AND INVITED LECTURES

- **Invited Talks:**

12. Siddig, A. A. H. (October 24, 2025). Conservation and resilience ecology in crisis zones: Stories and inspirations from Sudan. Guest speaker in Environmental Conservation Seminar, University of Massachusetts Amherst, USA. (Oral presentation)
11. Siddig, A. A. H. (June 19, 2025). Towards resilient ecosystems & ecologists in Sudan (TREES) in times of crises. Guest speaker in Summer Ecology Program for Undergraduates' Seminar, Harvard Forest, Harvard University, USA. (Oral presentation)
10. Siddig, A. A. H. (November 12, 2024). Biodiversity conservation in Africa in the era of crisis. Guest lecturer in the course of Forest Ecology, Dartmouth College, USA. (Oral presentation)
9. Siddig, A. A. H. (October 30, 2024). Towards resilient ecosystems & ecologists in Sudan (TREES) in times of crises. Guest speaker in the Biology Department Seminar, Washington and Lee University, USA. (Oral presentation)
8. Siddig, A. A. H. (December 26, 2019). Advice for young scientists' success in school and research career. Invited seminar speaker at the College of International Education, Northwest Agriculture & Forestry University, China. (Oral presentation)
7. Siddig, A. A. H. (December 26, 2019). The biodiversity of savanna ecosystems in the era of environmental changes: Observed impacts and awaiting gaps. Invited seminar speaker at the College of Forestry, Northwest Agriculture & Forestry University, China. (Oral presentation)
6. Siddig, A. A. H. (July 30, 2019). Advice for effective research planning and a successful research career. Invited seminar speaker at the State Key Laboratory of Grassland Agroecosystems, University of Lanzhou, China. (Oral presentation)
5. Siddig, A. A. H. (February 22, 2018). Ecological & biodiversity data-deficiency in Sudan: Consequences and perspectives. Invited seminar speaker at the National Center for Research - Institute of the Environment & Natural Resources Research, Khartoum, Sudan. (Oral presentation)

4. Siddig, A. A. H. (January 24, 2018). Ecological & biodiversity data-deficiency in Sudan: Consequences and perspectives. Invited seminar speaker at the Department of Environmental Sciences and Natural Resources, University of Gezira, Sudan. (Oral presentation)
3. Siddig, A. A. H. (December 12, 2017). The necessity of establishing permanent forest plots in Sudan to better understand and monitor ecological changes. Invited seminar speaker at the Forestry Research Center (FRC), Agricultural Research Corporation (ARC), Sudan. (Oral presentation)
2. Siddig, A. A. H. (December 9, 2015). Biodiversity in Africa: State, importance, conservation challenges, and potential directions for a better future. Invited seminar speaker at the Department of Forest and Conservation Sciences, The University of British Columbia, Canada. (Oral presentation)
1. Siddig, A. A. H. (October 27, 2015). Why does the "biodiversity data-deficit" continue in Africa? Conservation consequences and potential solutions for a better future. Invited seminar speaker at the Ecology & Evolution Seminar, Department of Biometry and Environmental System Analysis, University of Freiburg, Germany. (Oral presentation)

• **Conference & Symposia Contributions:**

16. Siddig, A. A. H. (August 7, 2024). Building successful mentoring programs for young ecologists in times of crisis. Inspire Session Talk, 104th Annual Meeting of the Ecological Society of America, USA. (Oral presentation)
15. Siddig, A. A. H. (February 27, 2023). Why is long-term ecological research (LTER) matter in Africa? DAAD Climap Africa - Biodiversity, Ecosystems and Forests Working Group Summit, Benin. (Oral presentation)
14. Siddig, A. A. H. (January 23, 2023). Dealing with the impacts of climate change on the biodiversity of drylands in the era of data deficiency. Multifunctional Forest Management as Active Climate Protection Seminar Programme, University of Gottingen, Germany. (Oral presentation)
13. Siddig, A. A. H. (September 26, 2022). Impacts of climate change on biodiversity & ecosystem services: Observed patterns & knowledge gaps. Sudan International University (SIU) Conference on Climate Change, Sudan. (Oral presentation)
12. Siddig, A. A. H. (March 8, 2022). Climate change: Evidence, causes, potential ecological impacts, & needed actions. Ecological Monitoring Workshop, Wildlife Research Center, Sudan. (Oral presentation)
11. Siddig, A. A. H. (July 30, 2021). Ecological & biodiversity data-deficiency in Africa: Causes, consequences and potential directions. Monthly Seminar of the DAAD's Climap Africa Initiative – Biodiversity Working Group. (Oral presentation)
10. Siddig, A. A. H. (January 11, 2020). Climate change: Indicators, impacts & management options. Organization Day of the Sudan Youth Organization for Climate Change (SYOCC) - Khartoum Office, Sudan. (Oral presentation)
9. Siddig, A. A. H. (June 15, 2019). Building resilience and developing long-term monitoring plans for the vulnerable forest ecosystems in sub-Saharan Africa in the era of environmental changes. DAAD P.R.I.M.E. Alumni Conference "5 Years of P.R.I.M.E. – Researcher Training for Successful Career Paths," Bonn, Germany. (Poster presentation)
8. Ochs, A., & Siddig, A. A. H. (August 2018). The effectiveness of terrestrial amphibians as indicator species for long-term monitoring of ecosystem changes in eastern USA forests. Amphibians and Reptiles Conference, Connecticut, USA. (Poster presentation)
7. Siddig, A. A. H., Ochs, A., Villar-Leeman, C., & Johnson, S. (March 2015). Does decline of hemlock forests affect the demographic structure of red back salamanders in Harvard Forest? 26th Annual Harvard Forest Ecology Symposium, Harvard Forest, Harvard University, USA. (Poster presentation)
6. Ochs, A., Villar-Leeman, C., & Siddig, A. A. H. (September 2014). Salamanders as an indicator species for New England hemlock forest decline. National Conference of the Council of Undergraduate Research (CUR) on the Research Experience for Undergraduate (REU), Washington, D.C., USA. (Poster presentation)
5. Ellison, A. M., Patel, M. V., & Siddig, A. A. H. (September 2014). Recipes for success in STEM: The Harvard Forest Summer Research Program in Ecology. National Conference of the Council of Undergraduate Research (CUR) on the Research Experience for Undergraduate (REU), Washington, D.C., USA. (Poster presentation)
4. Siddig, A. A. H. (April 2014). Long-term ecological monitoring: Opportunities and importance in the future of biodiversity conservation in Africa. 10th Annual Symposium of the Center for Tropical Ecology and Conservation (CTEC), Antioch University New England, Keene, NH, USA. (Oral presentation)
3. Siddig, A. A. H. (April 2014). Dry Ecosystems Restoration Index (DERI): A system for developing and monitoring the habitat restoration programs in dry lands. Conference on Designing for Success: Ecological

Restoration in Times of Change, Society for Ecological Restoration, New England Chapter, and the Conway School of Landscape Design, Hampshire College, Amherst, MA, USA. (Poster presentation)

2. Siddig, A. A. H., Ellison, A. M., Leitner, J., & Balint, A. (March 2014). The state of terrestrial amphibians at Harvard Forest's Hemlock Removal Experiment (HF-HeRE) in 2013. 25th Annual Harvard Forest Ecology Symposium, Harvard Forest, Harvard University, USA. (Poster presentation)

1. Siddig, A. A. H. (February 20, 2014). Biodiversity of Sudan: Status, conservation challenges, and urgent management and research needs. I invited a seminar speaker to Harvard Forest, Harvard University, USA. (Oral presentation)

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## TEACHING EXPERIENCE

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1. 2023: Associate Professor, University of Khartoum, Desertification Studies Institute, Sudan
  - Research Methods, (winter), graduate course averaging 10 students per semester, covering the following topics: scientific method, why research, type of research, research process and stages, literature review, research planning and proposals, study design and data collection methods, data analysis techniques and interpretation, science communication, scientific writing, publications, research ethics ... etc.
2. 2022 to present: Associate Professor, University of Khartoum, Faculty of Forestry, Sudan
  - Environmental Conservation (5th-year students/every winter), an undergraduate course averaging 10 students per semester, covering the following topics: introduction to the environment, environmental threats, impacts of threats on the environment, subsequent impacts on people's livelihoods, potential solutions to each threat, the role of global environmental conventions, etc.
3. 2020 to present: Associate Professor, University of Khartoum, Faculty of Forestry, Sudan
  - Wildlife Conservation (5<sup>th</sup> year students/every fall), an undergraduate course averaging 20 students per semester, covering the following topics: wildlife diversity, population dynamics, threats to wildlife, conservation strategies, endangered species conservation, conservation monitoring, etc.
4. 2020 to 2023: Associate Professor, University of Khartoum, Faculty of Forestry, Sudan
  - Research Methods, (4<sup>th</sup> year students/every winter), an undergraduate course averaging 40 students per semester, covering the following topics: scientific method, why research, type of research, research process and stages, Research planning and proposals, study design and data collection methods, data analysis techniques and interpretation, science communication ... etc.
5. 2019 to 2023: Associate Professor, University of Khartoum, Faculty of Forestry, Sudan
  - Fundamentals of Ecology, (1<sup>st</sup> year students/every fall), an undergraduate course averaging 60 students per semester, covering the following topics: organismal biology, biotic & abiotic factors, ecological organization, populations, communities, ecosystems, biomes, concept of biodiversity, ecosystem ecology and energy flow, ecological processes (e.g. decomposition and NPP), climate change ecology ... etc.
6. 2017 to 2019: Assistant Professor, University of Khartoum, Faculty of Forestry, Sudan
  - Wildlife of Ecology & Management, (3<sup>rd</sup> year students/every fall), an undergraduate course averaging 35 students per semester, covering the following topics: biotic & abiotic factors, wildlife diversity, wildlife populations & communities of dryland, ecosystems, population growth, wildlife threats, management of wildlife populations, wildlife harvest, wildlife monitoring ... etc.
7. 2010 to 2011: Lecture, University of Khartoum, Faculty of Forestry, Sudan
  - Wildlife of Ecology & Management, (3<sup>rd</sup> year students/winter semester), an undergraduate course averaging 45 students per semester, covering the following topics: biotic & abiotic factors, wildlife diversity, wildlife populations & communities of dryland, ecosystems, population growth, wildlife threats, management of wildlife populations, wildlife harvest, wildlife monitoring.

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## PROFESSIONAL AFFILIATIONS

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1. 2025 – Present: Ecological Forecasting Initiative (EFI), [Africa chapter](#), member
2. 2024 – Present: The Intergovernmental Platform on Biodiversity & Ecosystem Services (IPBES). Role: [Expert](#) in the Capacity Building Task Force.
3. 2022 – Present: Ecological Society of America, member
4. 2022 – Present: the Arab- German Young Academy (AGYA) of Sciences & Humanities. Role: [member & fellow](#), focus on conducting interdisciplinary research.

## PROFESSIONAL SERVICE

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**1) Reviewer of Articles for Journals:** I review articles for many international journals, including Nature's Scientific Reports, Ecosphere, Local Environment, PLOS ONE, Ecological Indicators, Environmental Monitoring and Assessment, Land Use Policy, Sciences of Cold and Arid Regions, Forest and Biodiversity Management, Journal for Nature Conservation, Australian Journal of Botany, and Conservation Science & Practice.

**2) Service and Membership in Scientific Committees and Boards:**

- 1- 2021 - Present: Science Board of the Wildlife Research Center, Sudan.
- 2- 2019 - 2021: Member of the Graduate College Board for Agriculture and Veterinary Studies, University of Khartoum.
- 3- 2020 - 2021: Member of the Faculty Research Board - Faculty of Forestry, University of Khartoum

**3) Service in dissertation/thesis examination committees:**

1. December 2022: Mohammed Eltigany, PhD, Institute of Environmental Studies, University of Khartoum, Sudan
2. April 2022: Tamanna Patel, PhD, Faculty of Science, Wits University, South Africa.
3. March 2019: Abderhaman Ahmed, M. Sc, Desertification Studies Institute, University of Khartoum, Sudan.
4. July 2018: Amira Abdelrahman, M. Sc, Desertification Studies Institute, University of Khartoum, Sudan.

**4) Professional consultancies with organizations and agencies include:**

1. April – December 2024: Climate Resilience Consultant for developing a drought contingency plan for strengthening farmers and pastoralist communities in the IGAD region (White Nile State, Sudan) and funded by the Adaptation Fund.
2. May – December 2022: National Capacity Self-Assessment (NCSA) Consultant for the Higher Council for Environment and Natural Resources (HCENR) and UNDP under the Strengthening Sudan's Environmental Capacity Project.
3. April – July 2022: National Consultant for conducting the Baseline Study for the Supporting Gum Arabic Value Chain (SGAVC) Project, Forest National Corporation (FNC).
4. March – April 2022: National Consultant, FAO, for OPIM of the riverine biodiversity project, Khartoum – Sudan.
5. March – April 2022: FAO, National Consultant for OPIM on the resilience of the agro-pastoral community in the North Darfur project, Khartoum, Sudan.
6. October 2021 – February 2022: Technical Advisor & Consultant for the BIOBAMA Project for evaluating the state of governance in the protected areas of Sudan (case of Jebel Edair National Park), the Higher Council for Environment and Natural Resources (HCENR).
7. February – May 2021: National PPG Coordinator, FAO for the development of the Riverine Forests Biodiversity project document, Khartoum, Sudan.
8. January – April 2021: Forestry Consultant for the Higher Council for Environment and Natural Resources (HCENR) Sudan's Nationally Determined Contributions (NDC) Project- Forest Sector.
9. August – December 2020: National Consultant for FAO in a team of experts to develop the Riverine Forests Biodiversity project document, Khartoum, Sudan.
10. November - December 2019: Natural resources expert for UNEP for Documenting Lessons Learnt from Sustainable Forest Management Practices in East Darfur 2018-2019. The study was sponsored by the

Forests National Corporation (FNC) in collaboration with the United Nations Environment Program (UNEP).

11. May 2019: Forestry expert delivered Training on forest nurseries and Afforestation programs for Forest National Corporation (FNC) officers, in Sudan.
12. September 2018 – November 2019: Environmental consultant for the Forest National Corporation (FNC) Integrated Carbon Sequestration Project, Sudan (ICSP-S). Coordinated and delivered several environmental training and studies to the Integrated Carbon Sequestration Project Sudan (ICSP-S).
13. June 2017 – May 2018: consultant for the Khartoum International Airport Authority for implementing an environmental impact study to assess aviation-wildlife conflicts in and around Khartoum International Airport.

## LANGUAGES

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- **Arabic:** Native Language
- **English:** Superior Listener, Speaker, Reader, and Writer

## REFERENCES

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