

HAMMED ADEDAMOLA AKANDE

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PROFESSIONAL SUMMARY

Good research skills with demonstrated success in using machine learning, spatial statistics, and geospatial technologies for solving ecological-related questions.
Research Interests: Spatial Modelling, Joint Species Distribution Modeling, Spatio-temporal Analysis, Landscape Ecology, Global Change Modeling.

EDUCATION

PhD Student- *Spatial Ecology*. 09/2020 - Present

Department of Biology

Concordia University- Montreal, QC, Canada

Modules Include- Advanced Statistics for Biological Research (A+)

Professional Development Certificate- *Data Science and Machine Learning*. 03/2022 - Present
McGill University- Montreal, QC, Canada

Modules Include- Statistical Machine Learning, Practical Machine Learning, Data Science for Business Decisions, Data at Scale

Certificate of Completion- *Introduction to Machine Learning*, 03/2022

Vector Institute, Toronto, Canada

- Selected to participate in 5 week course at leading AI research institute (Vector Institute).
- Built machine learning pipelines in Python, used Python packages to implement machine learning algorithms, developed modeling and optimization techniques.
- Presented capstone project on “*Climate Change Impacts on the distribution of Endangered Grey Parrot (*Psittacus erithacus*); a modeling approach*” to stakeholders.

Master of Science- *Integrated Water Resource Management*, 10/2019

McGill University - Montreal, QC, Canada

Modules Include- Advanced GIS for Natural Resource Management, Advanced quant. meth. in soc. field research (STATA software), Watershed Management, Ecological Engineering.

M.Sc Thesis: A Remote Sensing Approach to Quantitatively Assess Land-Use and Land- Cover Changes in the Zambezi River Basin.

Bachelor in Wildlife Management- *Wildlife Management* , 12/2016

Osun State University - Osogbo, Nigeria

Grade: First Class Honors

Modules include- Wildlife ecological survey, Fish and wildlife ecology, Land-Use planning, Herpetology, Ornithology, Principle of Conservation in Tropical Africa, GIS, and Remote Sensing

Final-year Research: Population distribution and Morphometric Analysis of Perret Toad *Amietophrynus perreti* (Schiotz, 1963).

SKILLS

- R/ R-Studio
- Python
- Google Earth Engine
- ArcGIS
- STATA
- QGIS
- GeoDa
- SAM
- Office, MS Word and Excel
- Git/GitHub

WORK HISTORY

RESEARCH ASSISTANT. 01/2021 – 06/2021

Future Earth and Sustainability in the Digital Age, Canada.

- Supported the “Environmental Sustainability in the Digital Age” convening co-hosted by United Nations Environment Program, Future Earth Canada, and the Sustainability in the Digital Age initiative, including coordination of preparatory materials, assistance during the convening, and support in developing outputs from the convening.
- Supported the Biodiversity Pathways to Sustainability Canada (BPSC) initiative by reviewing the literature, assisting in coordinating interns, supporting the BPSC workshop, and other activities as needed.
- Other ad-hoc requests upon approval from the Research Manager.

TEACHING ASSISTANT- FALL 2020, FALL 2021

BIOL322, Introduction to Biostatistics

Concordia University, Canada

- Responsible for teaching lab and computer tutorials on Biostatistics to 35 students,
- Assisted students with their course work, grading exams and course assignments.

ASSISTANT LECTURER 06/2017 to 04/2018

Adamu Augie College of Education, Argungu, Kebbi State

- Departmental result officer
- Graded over 60 students' tests, quizzes, assignments and exam scores and entered grades into Excel
- Developed easy and open rapport with students to encourage engagement and academic progress
- Initiated and facilitated classroom discussions
- Implemented strategies to improve student learning outcomes

INTERN 04/2015 to 10/2015

Nigeria National Park Service, Edo and Niger State .

- Worked at ecology department in Okomu and Kainji Lake National Park from April to October 2015
- Worked closely with park officials and researchers to conduct extensive wildlife ecological surveys and monitoring of fauna and flora species in Kainji Lake National Park
- Reviewed related literature and conducted surveys on species richness in Okomu National Park to support research efforts
- Participated in other ecological research including Ornithology, Aerial and Ground Survey, Ecotourism, Botanical rambling, Park planning, and interpretation

PUBLICATIONS/ CONFERENCE PRESENTATION

· ***Akande H.A., Peres-Neto P., Wahab MKA 2022-** Species Distribution Models Predicts Range Loss for the Endangered Chimpanzees (*Pan troglodytes*) in Africa. **Accepted for presentation** at the 2022 North American Congress for Conservation Biology Conference.

· **Akande H.A. 2021-** Assessing Spatial Heterogeneity in Species Distribution using the Geographically Weighted Regression (GWR). *Manuscript under review* in the Ecological Processes Journal.

· **Akande, H.A.** Jeffrey C., Jeff S., **2019.** Autocorrelation and Spatial Non-Stationarity Effect on Bird Species Richness in Ontario, Canada. *Speed Talk at the 10th Student Conference on Conservation Science, New York, USA.*

· Owolabi B.A, Adewumi AA, Orimaye JO, and **Akande H.A. 2018.** “Survey of Avifauna Species of a Degraded Environment: Case Study of College of Agriculture, Osun State University, Nigeria. *Nigerian Journal of Wildlife Management* 2018, 2(2)

· Owolabi B.A, Adekola OE, Eveso JO, and **Akande H.A. 2018.** “Diurnal Patterns of Daily Activities Frequency of White-faced Whistling Duck (*Dendrocygna viduata*) in an Open Dam in Osogbo, Osun State, Nigeria”. *Journal of Biodiversity & Endangered Species*. DOI: 10.4172/2332-2543.1000217.

· Owolabi B.A, Odewumi O.S, Orimaye J.O., **Akande H.A. 2018.** “Population Estimate of African Green Pigeon (*Treron a*) in Ekiti State, Nigeria”. *Proceedings of 6th NSCB Biodiversity Conference; Uniuyo 2018 (25 -29 pp).*

· **Akande, H.A.,** Wahab, M.K.A **2015.** “Preferred plant species, feeding habit, and nutrient quality of the feed of Mona monkey (*Cercopithecus mona*), at Osun Grove, Osun state”. *Tropical Biology Association Conference Proceedings. 24p (Poster Presentation).*

CONFERENCES/WORKSHOP/SYMPOSIUM ATTENDED

· Introduction to Machine Learning, Vector Institute, Toronto, Canada	2022
- Excel to Python Course, Vector Institute, Toronto, Canada	2022
- Autumn School on “Biodiversity: Origins and Drivers”	2021
· Association of Tropical Biology Conference	2021
· Hacking Limnology workshop	2021
· Ecological Forecasting Early Career Annual Meeting	2021
· 11th Annual Quebec Centre for Biodiversity Science (QCBS) Symposium	2020
· GIS in Education and Research Conference, University of Toronto, Canada	2020
· 10th Student Conference on Conservation Science, New York, USA.	2019
· Mastercard Foundation BAOBAB Summit, Kigali, Rwanda.	2019
· World Climate Negotiation Training, Montreal, Canada.	2018
· Maiden Conference & AGM of Wildlife Management Society of Nigeria,	2017
· International Institute of Tropical Agriculture Tree Workshop	2016.
· NSEC Maiden Conference, University of Ilorin.	2016.
· International Conference of Tropical Biology Association, University of Ghana.	2015.
· Nigeria Society for Environmental Conservation Conference, University of Ibadan.	2015.
· Chief S.L. Edu Memorial Foundation Lectures.	2013.
· UNIOSUN Essay and Debate Competition.	2013.
· First quiz competition of National Association of Agricultural Student, UNIOSUN	2012.

AWARDS AND CERTIFICATE OF RECOGNITION

· Concordia University International Award of Excellence	2020- till date
· NSERC CREATE LEADS , Concordia University, Canada.	2020- till date
· MasterCard Foundation Scholar , McGill University, Canada.	2018- 2019
· Certificate of Completion , Cohort 6 (Online), YALI Regional Leadership Centre, Accra.	2018
· Certificate of Completion , “Disasters and Ecosystems: Resilience in a Changing Climate”, UNEP and TH Koln (University of Applied sciences), Germany.	2017
· Awarded Travel Sponsorship of Tropical Biology Association African Alumni Group (TAAG) to attend the International Student Conference held at the University of Ghana,	2015.
· Pioneer National President. Nigerian Society for Environmental Conservation	2017
· Certificate of participation IITA/BGCI Priority tree workshop, IITA	2016.
· Honorable member , Student Representative Council, Faculty of Agriculture, UNIOSUN,	2015-2016
· P.R.O. Fisheries and wildlife management association, Osun State University, 2014-2015.	

LEADERSHIP POSITIONS

· President Agro-Allied CDS Group, Argungu LG, Kebbi State	2017 – 2018
· Pioneer President Nigerian Society for Environmental Conservation	2015 – 2017
· Honorable Member Student Rep. Council, College of Agriculture, UNIOSUN	2015-2016
· Director of Study MSSN, College of Agriculture, UNIOSUN	2015 – 2016
· PRO Department of Fisheries and Wildlife Management, UNIOSUN	2014 – 2015
· Founder and Director E-NNOVATE Educational Consultant	2012

AFFILIATIONS

Member, Nigerian Society for Environmental Conservation
 Member, Tropical Biology Association.
 Member, Society for Conservation Biology.
 Member, British Ecological Society.
 Member, Zoological Society of Nigeria.
 Member, International Forestry Student Association, Northern Africa Region
 Member, Association of Tropical Biology and Conservation