

OYEDELE, OLUWAFEMI

Email: oluwafemioyedele908@gmail.com; Website: <https://bb1464.github.io/oluwafemi-oyedele/>

Career objective

I am an agronomist with +5 years of experience in research and stakeholders education, underpinning the development and recommendation of the best crop management practices for productive, efficient, and environmentally safe farming systems. My passion and expertise are in cropping systems, soil fertility and crop nutrition, with a strong component of modern data analytics and machine learning for the advancement of agriculture. I aim to play an active role in trans disciplinary projects that gather diverse agricultural stakeholders.

EDUCATION

P.h.D. Agronomy (Plant and Soil Science), Mississippi State University. (In-View)	2024-2028
MSc. Agronomy (Soil Science), University of Ibadan. (Grade Point: 81.4 Percent)	2018-2021
B.Agric (Soil Science), University of Calabar, Nigeria. 2nd Class Upper (CGPA: 3.90 out of 5.0)	2010-2016
Eastern Commercial Secondary School, Calabar, Nigeria. (West African Senior School Certificate)	2005-2008
Hope Waddel Training Institute, Calabar, Nigeria. (Junior Secondary Certificate Examination)	2001-2004
Police Children School, Calabar (First School Leaving Certificate). Grade Point: Distinction	1993-2001

WORKING EXPERIENCE

Department of Plant and Soil Science January 2024-2028
(Mississippi State University)
Graduate Research Assistant

WORKING EXPERIENCE

Department of Agronomy (IITA) January 2023-2024
Research Assistant (CocoaSoils and ACAI Project)

- To assess biodiversity in CocoaSoils Program Satellite Trial Sites in 50 Farmers Fields across 4 States in South West Nigeria.
- To quantify carbon stocks
- Assess other ecosystem services of cocoa farms as perceived by cocoa farmers (advantages and disadvantages (economic and non-economic) according to farmers
- Setup of Arbuscular Mycorryza Cassava Trial at IITA
- Collect data on growth and yield
- Data management and Analysis.
- Writting of Manuscript.

Department of Agronomy (IITA) Nov 2019-Dec 2022
Research Fellow (CocoaSoils Project)

- Establishment and management of 4 research trials that explore the contribution of cocoa litter to nutrients recycling across three states in South West Nigeria.
- Data collection, entry, management and analysis.
- Visualized data using R creating 50+ informative figures for the cocoasoils project
- Writing scientific reports and manauscript.

Mentor (United State of America)

- Led in modeling projects **predicting election turnout for Nigeria in 2019 and 2023**.
- Contributing to open source software e.g. **R for Data Science Book**; Mastering Shiny, ggplot2 e.t.c.
- Led in facilitating the ggplot2, datavisr, mastering shiny, **tidymodels** in R and several other book clubs in the R4DS online learning community.
- Wrangled, cleaned, weighted, or made presentations for 60+ survey datasets with R.
- Participate in TidyTuesday data visualization challenge
- Help upcoming data analyst and data scientist to trouble shoot their code that is posted on the slack channel , and also organize office hours.

National Youth Service Corp, Nigeria

2017-2018

Community Service (Beatiful Biggining College)

- Design instructional materials for teaching agriculture, basic science and technology, chemistry and computer to junior and senior secondary school students.
- I also play a active role in our Community Development Scheme (CDS), where we work on achieving the Sustainable Development Goals (SDGs).

Data Analyst (Kaggle)

2010-2017

(Freelance)

- I analyzed and interpret data for undergraduate and Graduate Students with the use of R and python Statistical software and then I generate report using R Markdown and quarto.
- Mentored Graduate Students on how to implement statistical techniques in R by organizing online workshops and office hours to help them debug errors on their code.

Computer Skills

- Proficient in the use of Microsoft Office Suite (Word, Excel and Power Point).
- Proficient in the use of Open Source Statistical Software such as R and python.
- Proficient in the use of git and github for version control.
- Proficient in the use of Arc GIS
- Proficient in calibrating processed-based model.
- Good Research Technique.

Personal Skills

- Good interpersonal skill and ability to work effectively in a team
- Good command of English with Effective Oral Skill
- Able to work under pressure and meet deadline
- Capable of achieving consistent high level of accuracy
- Integrity and honesty
- Skilled in listening and consulting
- Constructive in analytical reasoning
- Well-developed observation, analysis and assessment abilities
- Ability to fit (generalized) linear mixed model, and Bayesian models in R

Publications

- **Oyedele, O.**, Deo-Gratias, H., Hauser, S., Schut, A. G. T., Woittiez, L.S., Rusinamhodzi, L., Ogunlade, M. O., Giller, K. E., (2023). Macrofauna accelerates nutrient cycling through litterfall in cocoa. *Journal of Biology and Fertility of Soils* [In-press]
- Williams, M.C., Ezeoke, Q. A., Diekade, V. A., **Oyedele, O.**, Mbonu, P., Tolulope, E. (2022). Assessment of poultry manure and NPK fertilizer on the yield components of cucumber variety in Owerri. *International Journal of Horticulture and Forestry Research* 3(1): 1-11

- Akpa, E. A., Akpama, A. I. and **Oyedele, O.** (2021). Evaluation of Saturated Hydraulic Characteristics and its Influence on some Physical and Chemical Properties of Soils Developed on Coastal Plain Sands of Obufa Esuk Orok in Calabar, Cross River State, Nigeria. *Asian Research Journal of Agriculture*. 13(4): 35-45
- **Oyedele, O.**, Akpa, E. A. and Akpan, J. F. (2019). Infiltration Characteristics of Soils Developed on Coastal Plain Sands in Calabar Municipality Local Government Area, Southern Cross River State. *Asian Journal of Advances in Agricultural Research*. 10(4): 1-8

Disertations

- Quantifying Leaf Litter Production, Decomposition, and Nutrient Release in Southwest Nigeria. October, 2022
- Characterization and Classification of Soils Developed on Sandstone in Akamkpa Local Government Area in Cross River State, 2013.

Scholarships, Fellowships and Awards

- MSc Scholarship from the cocoasoils project 2019 to 2022
- P.h.D. Scholarship from the Multiregional soil bean board 2024 to 2026
- Research Fellow of the Year International Association of Research Fellow and Scholars (IARSAF) 2022
- Research Fellow (Cocoa Soils Project), International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria (2019- 2022)
- Second Best Graduating Student in 2014/2015 Session in Faculty of Agriculture, University of Calabar, Calabar, Nigeria 2015
- Award of Honour for Academic Excellence by Yoruba Students' Association, University of Calabar Chapter, 2014

Conferences

- 6th Mississippi Academy of Sciences and Engineering Symposium, 2024
- Mississippi Agricultural Industry Council, 2024
- Fourth Annual Soybean Research and Think Tank Forum 2024, Indianapolis, IN: **N Credit from Soybean**
- Summer 2024 Undergraduate Research Showcase Event Evaluator at Mississippi State University.
- Attended the International Association of Research Fellow and Scholars Annual Symposium on “**Delivering Innovative Research Towards Inclusive Adoption of Climate-Smart Agriculture for Food and Nutritional Security 27th to 30th November, 2023.**”
- Attended a workshop on food-for-thought lecture on: “**Mixing machine learning and crop models experiences for yield forecasting**” by Ioannis Athanasiadis from Wageningen University and Research (WUR), 22nd September, 2023.
- Attended a training workshop on developing data-driven systems for crop monitoring and yield forecasting, 1st June, 2023.
- Looking back and Moving Forward: Closing Knowledge Gaps to Create a Sustainable Cocoa Sector. 3rd Annual CocoaSoils Forum at IITA, Ibadan, Nigeria, 2022.
- Exploring Science, Technology and Innovations for Building a Sustainable Agricultural Transformation in Africa. 24th Annual Symposium of International Association of Research Scholars and Fellows (IARSAF), 2021.
- Training on Bioinformatics and hands-on in molecular biology techniques, Bio Science Centre, IITA Ibadan, Nigeria, 2021.
- Gbadegesin, A. S. (2019). The Eleventh Commandment: Stewardship for Sustainable Environment in Nigeria. 460th Inaugural Lecture of the University of Ibadan, 2019.
- Attended the workshop on minimum dataset for calibrating DSSAT organized by the University of Florida, USA, 2019
- Attended a workshop on minimum dataset for crop modelling 2019
- Raising Excellent Ambassadors for Global Relevance in a Competitive Environment, 2014.

Certification

- Certificate of participation for attending “**Introduction to Drones Technology**” of **From the Skies to the Future: Exploring Drone Application in Various Industries**” series, organized by AWIGIS and SheFlies on the 2nd July, 2023.
- Certificate of successful completion of basic Bioinformatics and hands-on in molecular biology techniques, Bio-Science Center, IITA Ibadan, Nigeria, 2021.
- Info-soft Certified Data Analyst and Management Expert, 2014.
- Certificate in Computer Appreciation, 2014
- Data Wrangling in R (Datacamp), 2018.

- Basic Principle of GIS analysis (University of Ibadan), 2019.
-

References

Dr Hauser, Stefan

Root & Tuber Systems Agronomist
International Institute of Tropical Agriculture, Ibadan
Email: s.hauser@cgiar.org

Marieke Sassen (Ph.D.)

UN Environment World Conservation Monitoring Centre
Senior Technical Specialist Biodiversity and Agriculture and
Lecturer Wageningen University and Research (WUR)
Email: marieke.sassen@wur.nl

Rabbi, Ismail

Molecular Geneticist / Breeder
International Institute of Tropical Agriculture
Email: i.rabbi@cgiar.org