

OYEDELE, OLUWAFEMI

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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.

PERSONAL

Name	OYEDELE, OLUWAFEMI
Marital Status	Single
Profession	Agronomist
Phone Number	07068626564
Nationality	Nigerian

EDUCATION

PhD, Agronomy, Mississippi State University. (In-View)	June 2024-May 2027
M.Agric, Agrometeorology, University of Ibadan. Grade Point: 81.4 Percent	June 2018-November 2021
B.Agric Soil Science, University of Calabar, Nigeria. 2nd Class Upper (CGPA: 3.90 out of 5.0)	Dec. 2010-January 2015

WORKING EXPERIENCE

Department of Agronomy <i>Graduate Research Assistant</i>	June 2024-May 2027
<ul style="list-style-type: none">• Conduct field trials on quantification of Nitrogen credits from soybean to subsequent corn across 15 states in USA.• Conduct field trials on quantification of Nitrogen released using decomposition bags, across five states, in a NorthSouth transect in USA.• Quantification of greenhouse gas emissions from corn, soybean and a fallow control.• Quantify Nitrogen credits from soybean to subsequent corn using a process-based model.• Data management and Analysis.	
Department of Agronomy <i>Research Assistant (CocoaSoils Project)</i>	Feb 2023-April 2024
<ul style="list-style-type: none">• To assess biodiversity in CocoaSoils Program Satellite Trial Sites in 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• Data management and Analysis.	
Department of Agronomy	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.
- Data collection, entry, management and analysis.
- Visualized data using R creating 50+ informative figures for the cocoasoils project
- Writing scientific reports and manuscript.

R4DS online Learning

June 2018-Date

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, **tidymodel** and several other book clubs in the R4DS online learning community.
- Wrangled, cleaned, weighted, or made presentations for 60+ survey datasets with R, and SQL
- Using R Shiny, built a codeless-crosstab tool for company's research team
- Participate in TidyTuesday data visualization challenge
- Help upcomming data analyst and data scientist to trouble shoot their code that is posted on the slack channel.

Kagle

Nov 2010-Dec 2017

Data Analyst (Freelance)

- I analyzed and interpret data for undergraduate and post graduate students with the use of R and python Statistical software and then I generate report using R Markdown and quarto.
- Mentored post graduate students on how to implement statistical techniques in R by organizing online workshops and office hours to help them debug 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 and processed-based models.
- 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
- Ability to calibrate DSSAT; APSIM and STICS for simulation modeling

Publications

- **Oyedele, O.**, Deo-Gratias, H., Hauser, S., Schut, A. G. T., Woittiez, L.S., Rusinamhodzi, L., Ogunlade, M. O., Giller, K. E., (2025). Macrofauna accelerates nutrient cycling through litterfall in cocoa. *Nutrient Cycling in Agroecosystem* 130, 427–443 (2025). <https://doi.org/10.1007/s10705-025-10399-4>
- 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

- Ph.D. Scholarship from the Multiregional Soybean board 2024 to 2027
- MSc Scholarship from the cocoasoils project 2019 to 2022
- 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

- American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Annual Meeting: **AI Innovation for a Changing Climate**, Southern Branch Annual Conference, 2025
- American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Annual Meeting: **AI Innovation for a Changing Climate**, 2024
- 6th Mississippi Academy of Sciences and Engineering Symposium, 2024
- Mississippi Agricultural Industry Council, 2024
- Fourth Annual Soybean Research and Think Tank Forum, Indianapolis, IN: **N Credit from Soybean**, 2024
- 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 achievement for attending the Decision Support System for Agrotechnology Transfer Training (DSSAT) 2025 International Training Program on Assessing Crop Production, Water and Nutrient Management, Climate Risk and Environmental Sustainability with Simulation Models from May 19-24 at Griffin, Georgia, USA.
- 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.
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References

Dr Michael J. Mulvaney

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Hartwig Endowed Chair for Soybean Agronomy
Mississippi State University

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Dr Hauser, Stefan

Root & Tuber Systems Agronomist
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University of Kassel, Germany

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