ABDULMUMIN USMAN MUSA

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1, Musa Maccido House
Arkilla Gandu Area
Sokoto, State, Nigeria

RESEARCH INTEREST

Phytopathology
Plant-Microbe Interactions
Soil fertility

EDUCATION

B. A Usmanu Danfodiyo University, Sokoto, Nigeria, Agriculture August 2018
Dissertation: Effect of variety and neem seed extract on the management of *Cercospora* leaf spot disease of groundnut (Arachis hypogaea L.)
Advisor: Professor Abubakar Sadiq Muhammad

RESEARCH EXPERIENCE

Usmanu Danfodiyo University, Sokoto, Nigeria
Undergraduate student 2012-2018

- Investigated neem seed oil as a sustainable control for *Cercospora* leaf spot disease on groundnut in field trials.
- Monitored disease incidence and severity across experimental plot, reducing lesion progression by ~30% and enhancing pod yields compared to control plots.
- Executed fortnightly spray applications using a backpack sprayer, adapting to wetc season conditions.
- Skills: field disease scouting, plot management, spray application, data collection.

PROFESSIONAL EXPERIENCE

TOURBA, Bauchi, Nigeria 2025-Present
Extention Officer

- Coordinate and train smallholderlder farmers in Alkaleri local government, supporting a 10,000 hectares for global carbon credit markets.

- Engage 100+ farmers in regenerative practices, enhancing soil carbon sequestration and sustainable yields.
- Develop training modules and map parcels using GPS tools, integrating soil type and vegetation data for carbon credit compliance.
- Skills: farmer training, carbon farming, GPS mapping, stakeholder coordination.

Office Chérifien des Phosphate Africa, Bauchi, Nigeria 2024-2025
Farm Supervisor

- Coordinated field activities for crop health, including monitoring foliar diseases and implementing preventive measures.
- Prepared production and operational reports, enhancing data driven management.
- Supervised farm workers, coordinated and directed their activities.
- Skills: crop monitoring, field operation, team coordination.

PJS Agro Farm Limited, Niger, Nigeria 2022-2024
Agronomist

- Managed 120 hectares of diversified farmland, improving yield, through disease and nutrient management.
- Implemented field trials and cropping schedules using Gantt charts, optimising rice yields to five metric tonnes per hectare with 4R nutrients stewardship.
- Supervised 50 labourers in manual weeding, ensuring efficient field maintenance.
- Skills: precision agriculture, field trials design, soil and crop management.

Ahmsal Heritage Academy, Kaduna, Nigeria 2020-2022
Head teacher

- Aligned goals with the academy owner, ensuring compliance with licensing requirements.
- Directed instructional staff performance and facilitated the recruitment process.
- Foster communication through structured activities with parents and staff.
- Skills: Leadership, monitoring and evaluation.

Ministry of Agriculture, Kaduna, Nigeria. 2019-2020
Assistant Superintendent Officer, National Youth Service Corps

- Contributed to agricultural data collection and research, supporting technical operations.
- Monitored team progress in field-based tasks.
- Skills: data collection, team coordination.

Sokoto Rima RIver Basin Development Authority, Nigeria 2016-2017
Irrigation intern, Middle River Valley Irrigation Project

- Supported irrigation projects for rice farmers, conducting field surveys and workshops for 100+ farmers.
- Assisted in land measurement and allocation, enhancing farmer productivity.
- Skills: irrigation management, field surveys, farmer engagement.

PROFESSIONAL DEVELOPMENT TRAINING

Webinars

Phytobiome Alliance; Dissecting microbiome-dependent crop traits: From reductionist models to field-scale complexity 2025

British On-Farm Innovation Network—Root to Seed Health. 2024

PROFESSIONAL AFFLIATIONS

Member, Youngo Food and Agriculture Working Group 2025-Present
Member, British On-Farm Innovation Network 2024-Present

LANGUAGES

English: Native Language, Distinguished levels in Listening, Speaking, Reading, and Writing

REFERENCES

Dr. Abubakar Sadiq Muhammad, Professor
Department of Crop Science
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Sokoto State, Nigeria.
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Relationship: Line manager