

# Salami Ismaila Musa

DOCTORAL RESEARCHER

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LinkedIn simusa

## Education

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### PhD (Integrated Material Science)

MORGAN STATE UNIVERSITY (MSU)

- Research Focus: Quantum Sensing and the Physics of Defects in 2D Transition Metal Dichalcogenides
- cutting-edge area with vast potential for technological advancement.
- Advisor: Professor Birol Ozturk

Maryland, USA

In-View

### MSc. Physics (Solid State)

NIGERIAN DEFENSE ACADEMY (NDA)

- Thesis: optimization of hole and electron transport layers of lead-based perovskite solar cell
- Ranked top 2% among graduating students
- Advisor: Professor Haruna Ali

Kaduna, Nigeria

Feb 2018 - Sept 2020

### BTech. Physics Education

FEDERAL UNIVERSITY OF TECHNOLOGY (FUT)

- Thesis: The influence of Scaffolding on the achievement of senior secondary school students in physics in Minna Metropolis
- Ranked top 2% among graduating students
- Advisor: Professor Mrs Celina Gana

Minna, Nigeria

Nov 2011 - Oct 2016

## Experience

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### Teacher - Physics | ICT Coordinator

GALAXY UNIPREP CENTRE

- Teach theoretical and practical concepts of Physics for O-level and undergraduate-level students.
- Prepare student for national and international Olympiad competition

Abuja, Nigeria

May 2019 - Present

### Joint Admission and Matriculation Board (JAMB)

EXAM CENTRE / CCTV TECHNICAL OFFICER

- Organize periodic maintenance and test on Implemented applications
- Monitor and resolve software issue on all devices in the hands of agent
- Collaborate with UI/UX team to implement ideas to satisfy customer demands

(Ad-hoc Staff)

Aug 2017 - 2019

### IT Support | Consultant

RURAL ELECTRIFICATION AGENCY (REA) | ICT - DEPARTMENT

- Software Maintenance & General staff training on computer operation

REA, Nigeria

Nov. 2021 - 2023

## Volunteer Experience

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### Career Sensitization

HALEYOUTH FOUNDATION

- Guide Youths on how to make right Career Decision
- Organize Career-Day Workshop.

Kogi, Nigeria

Oct 2021 - Present

### UTME Mock Coordinator

GALAXY UNIPREP CENTRE

- Preparing CBT Exams for Student
- Provide direction, resources and advice on technical issues from students

Abuja, Nigeria

June 2019 - Sept 2022

## Professional Training & Certifications

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### Project Management Essentials Certified (PMEC)™

PMEC

- Strategic Leadership and management skills
- Management and Strategy Institute (MSI)

Project Management Certificate

Feb, 2024

### Google IT Support Professional

COURSERA PROFESSIONAL CERTIFICATE

- Technical Support Fundamentals, The Bits and Bytes of Computer Networking, Operating Systems and You: Becoming a Power User, System Administration and IT Infrastructure Services, IT Security: Defense against the digital dark arts.

Verification Link

November, 2023

### University Foundation Programme Teachers Training

BROOKE HOUSE COLLEGE ENGLAND, UK

- Excellent classroom management skills
- Training for Optimum teaching Methodology
- Skills Enhancement for Virtual and on-site Teaching

Teachers Training Certificate

June, 2019

### Health, Safety and Environment Management Professional (HSEP)

INTERNATIONAL INSTITUTE OF PROJECT AND SAFETY MANAGEMENT

- Managing Organizational Safety
- Ensuring Safety Guidelines
- Practical implication of Safety

Membership ID CR1012350

Oct, 2017

### Teachers Registration Council of Nigeria

TEACHING LICENCE IN NIGERIA

- Teaching Licence for Optimum teaching Methodology
- Good Classroom Management
- Excellent Skills for Virtual and on-site Teaching

Teaching Professional Certificate

Sept, 2016

### Government Technical College

TECHNICAL SKILL CERTIFICATE

- 3 years Course on both practical and theoretical aspects of Electrical Installations

Electrical Installations

Feb 2009

## Teaching Experience

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### Galaxy Uniprep Centre

PHYSICS INSTRUCTOR

- Prepare Students for A and O level Cambridge International Physics, JUPEB, JAMB and WAEC Examinations
- Conduct training on Intermediate and Advanced Physics such as AP, IGCSE physics
- Helped improve students' performance by 25% - 30%

Abuja, Nigeria

Mar 2019 - Present

### Galaxy Uniprep Centre

ICT CO-ORDINATOR

- Website information management system
- Coach Students for ICDL, Data Processing, SAT, GRE, Examinations
- Helped improve Productivity/ exam performance by 35% - 40%

Abuja, Nigeria

Mar 2019 - Present

## Publications

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### INTERNATIONAL JOURNALS/CONFERENCE PUBLICATIONS

O. J. Adeyemi<sup>1</sup>, H. Ali<sup>1</sup>, S. I. Musa<sup>1</sup>, U. R. Ushiekpan<sup>1</sup>, B.J.Akinade<sup>2</sup>, M. L. Madugu<sup>3</sup>

"Optimization of Lead Base Perovskite Solar Cell with ZnO and Cul as Electron Transport Material and Hole Transport Material Using SCAPS-1D" 2021, VOL 6 (2): 69-84, Oct. 2021 "

JOURNAL

- doi.org/10.37231/myjas.2021.6.1.282

Malaysian Journal of Applied Sciences

Oct. 2021

C. S. Gana, S. I. Musa, Adebisi, T. A. Adebisi "The Effects of Scaffolding on the Achievement of Senior Secondary School Students in Physics in Minna Metropolis." International Journal of Research in Science.

JOURNAL

- repository.futminna.edu.ng:8080/jspui/handle/123456789/4661

Technology and Mathematics Education (IJRSTME). 4(2) 290-300.

2016

Sept. 2016

## **Technical Skills and Expertise**

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(Acquired expertise from academic, professional and industrial experience).

### **Programming**

- Python, Java, JavaScript, Matlab and LaTeX.

### **Domestic and Industrial Electrical Installation**

- Domestic Electrical Installation, Half and Full Conduit Electrical Wiring, CCTV Camera Installation

### **Mathematics**

- Strong engineering mathematics background, Foundation of industrial mathematics and advance calculus, numerical analysis, Differential equation, Probabilistic and statistical modeling, Number Theory and Geometry.