

# Salami Ismaila Musa

DOCTORAL RESEARCHER

7062 Ducketts Lane, Elkridge, MD USA.

✉ musal7@morgan.edu    📱 simusa

## Education

### PhD (Integrated Material Science)

Maryland, USA

MORGAN STATE UNIVERSITY (MSU)

In-View

- 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

### MSc. Physics (Solid State)

Kaduna, Nigeria

NIGERIAN DEFENSE ACADEMY (NDA)

Feb 2018 - Sept 2020

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

### BTech. Physics Education

Minna, Nigeria

FEDERAL UNIVERSITY OF TECHNOLOGY (FUT)

Nov 2011 - Oct 2016

- 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

## Experience

### Teacher - Physics | ICT Coordinator

Abuja, Nigeria

GALAXY UNIPREP CENTRE

May 2019 - Present

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

### Joint Admission and Matriculation Board (JAMB)

(Ad-hoc Staff)

EXAM CENTRE / CCTV TECHNICAL OFFICER

Aug 2017 - 2019

- 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

### IT Support | Consultant

REA, Nigeria

RURAL ELECTRIFICATION AGENCY (REA) | ICT - DEPARTMENT

Nov. 2021 - 2023

- Software Maintenance & General staff training on computer operation

## Volunteer Experience

### Career Sensitization

Kogi, Nigeria

HALEYOUTH FOUNDATION

Oct 2021 - Present

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

### UTME Mock Coordinator

Abuja, Nigeria

GALAXY UNIPREP CENTRE

June 2019 - Sept 2022

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

## Professional Training & Certifications

### Project Management Essentials Certified (PMEC)<sup>TM</sup>

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

### 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

### 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 CuI as Electron Transport Material and Hole Transport Material Using SCAPS-1D" 2021, VOL 6 (2): 69-84, Oct. 2021 "

*Malaysian Journal of Applied Sciences*

JOURNAL

Oct. 2021

- doi.org/10.37231/myjas.2021.6.1.282

**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.

*Technology and Mathematics Education (IJRSTME). 4(2) 290-300. 2016*

JOURNAL

Sept. 2016

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

## Technical Skills and Expertise

---

(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.