

Abiodun Victor Alagbada

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PERSONAL INFORMATION

Address: Belvederer Allee 21, 99425 Weimar, Germany

Date of Birth: 29/12/1989

Nationality: Nigerian

Gender: Male

RESEARCH INTEREST

- Development and application of numerical algorithms to solve complex differential equations, focusing on improving accuracy and efficiency for large-scale simulations.
- Study of mathematical optimization methods, including linear, nonlinear, and dynamic programming, to solve real-world problems in logistics, resource management, and decision-making.
- Construction and analysis of mathematical models to represent and predict the behaviour of physical systems in engineering, biology, and environmental science.
- Integration of applied mathematics with data science and machine learning techniques to analyse large datasets, develop predictive models, and enhance decision-making processes in various industries.

PERSONAL STATEMENT

As a dedicated educator and researcher, I am passionate about advancing mathematics through teaching and innovative research. Currently a PhD student at Bauhaus University, Weimar, Germany, I have a decade of experience making complex concepts accessible. My Master's degree in Mathematics and proficiency with tools like MATLAB, MAPLE, PYTHON, SAGE enabled me to bridge theory and practice. My research focuses on Numerical Analysis, Optimization Techniques, Dynamical System, and Control Theory. I aim to inspire and empower students and researchers, fostering a deep appreciation for mathematics and its transformative potential.

EDUCATION

- | | |
|--|--|
| <ul style="list-style-type: none">• PhD in Applied Mathematics (In Progress)
<i>Bauhaus University, Weimar, Germany</i>
Department of Civil Engineering, Applied Mathematics
2024 - Present | <i>University of Ilorin, Ilorin, Nigeria</i>
2022 - 2023 |
| <ul style="list-style-type: none">• Post-Graduate Diploma in Education (PGDE) | <ul style="list-style-type: none">• MSc in Mathematics
<i>University of Jos, Plateau-State, Nigeria</i>
2017 - 2018 |
| | <ul style="list-style-type: none">• BSc in Mathematics
<i>University of Jos, Plateau-State, Nigeria</i> |

Second Class Upper Division
2010 - 2014

- **Advance Level (A'Level)**
*Ahmadu Bello University, Zaria,
Kaduna-State, Nigeria*
2007 - 2008
- **Senior Secondary Certificate**
S & J College, Mile 12, Lagos-State,

Nigeria
2006 - 2007

- **First School Leaving Certificate**
*The Apostolic Church Primary
School, Ketu, Lagos-State, Nigeria*
1993 - 1999

FURTHER EDUCATION

- **Web Design Consultancy Course**
Nova University
Certificate of Completion
2023
- **Soft-skills Training**
Jobberman
Certificate of Achievement
2022
- **Backend Web Developer Course**
Side-Hustle
Certificate of Completion
2022
- **Full-Stack Developer Course**
Opecstat Academy, Lagos
2022

WORK EXPERIENCE

Online Subject Teacher (Mathematics, Additional Mathematics)

Preply and Upwork
2020 - Present

- Taught Mathematics with a specified curriculum per candidate.
- Adopted a range of teaching methods to establish positive learning outcomes.

Teacher: Mathematics, Additional Mathematics, and Computer

Omega High School, Jos
2018 - 2023

- Taught Computer, Mathematics, and Further Mathematics.
- Conducted and supervised ICT laboratory activities.
- Planned Mathematics and Physics lessons weekly with strict adherence to the curriculum.

Teacher: Mathematics, Additional Mathematics, and Physics

Corpus Christi Comprehensive College, Kwall, Jos (NYSC)
2014 - 2017

Teacher: Mathematics, Additional Mathematics

K-pec High School, Lagos
2009 - 2010

RESEARCH EXPERIENCE

➤ **A Class of Block Second Derivative Method for the Solution of Stiff Ordinary Differential Equations**

Department of Mathematics, University of Jos

2017 - 2018

- Designed a novel class of block second derivative methods for solving stiff ordinary differential equations.
- Conducted critical theoretical analysis to ensure reliability and effectiveness.

PERSONAL SKILLS

Languages:

- Mother tongue: Yoruba
- Other languages:
 - English: C1 (Listening, Reading, Spoken interaction, Spoken production, Writing)

Organizational/Managerial Skills:

- Critical decision-making skills
- Excellent interpersonal skills
- Impressive leadership, team management, and presentation skills
- Ability to establish and maintain positive relationships with fellow professionals
- Ability to design and conduct observational and experimental studies

Digital Competence:

- Excellent command of office suite
- Good command of photo editing software (Adobe Photoshop)
- Good command of MATLAB and MAPLE
- Proficient in Python
- Knowledgeable in SageMath

Communication Skills:

- Excellent verbal and written communication skills

Job-related Skills:

- Teamwork
- Time management
- Adaptability

PUBLICATIONS

- **A Class of Block Second Derivative Method for the Solution of Stiff Ordinary Differential Equations.** (Unpublished MSc Thesis, 2017)
Supervisor: Prof. Kumleng Geoffrey, Department of Mathematics, University of Jos.
- **The Convergence of Some Complex Power Series**
Supervisor: Dr. Silas Longwap, Department of Mathematics, University of Jos. (Unpublished BSc Thesis, 2014)

HONORS AND AWARDS

- Certificate of Participation in the 2013 National Mathematics Competition for University Students.
- Certificate of Excellence in the 2013 National Mathematics Competition for University Students (Bronze Medal).

MEMBERSHIPS

- Mathematics Association of Nigeria, Plateau State Chapter
- Black in Mathematics, South Africa

SERVICES

- Financial Secretary, Department of Mathematics, University of Jos (2011)

REFERENCES

Prof. Kumleng Geoffrey

Head of Mathematics Department,
Faculty of Natural Sciences, University
of Jos, Plateau State, Nigeria
Email: kumlengg@unijos.edu.ng

Dr. Longwap Silas

Senior Lecturer, Department of
Mathematics, University of Jos, Plateau
State, Nigeria
Email: longwaps@unijos.edu.ng

Dr. Egahi Musa

Senior Lecturer, Department of
Mathematics, Benue State University,
Nigeria
Email: egahimusa@yahoo.com

Dr. Adeyemo Abiodun Amos

Vice Principal Academics, Omega High
School, Jos, Plateau State, Nigeria
Email: amosadeyemo93@gmail.com