CURRICULUM VITAE

Name: Onuorah Osondu Benjamin
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EDUCATIONAL INSTITUTION ATTENDED AND ACADEMIC QUALIFICATIONS

2024 **PhD in ICT Education (Artificial Intelligence)**
Thesis Title: Development of AI-flavoured Technology-Education-Art App and Exploration of its Impact and CTCA on Students' Performance in Visual Art and Biological Drawings
Supervisor: Distinguished Emeritus Professor Peter Okebukola, OFR
Lagos State University

2021 **Master of Fine Arts (MFA) in Painting**
Project Title: Exploration of Pareidolia Phenomenon for Mixed-Media Painting
University of Benin, Benin City

2020 **Master of Education (M.Ed.) in Educational Technology**
Project Title: Effect Of Computer Animation On Academic Performance Of Technical College Students In Visual Arts Concepts In Lagos State, Nigeria
CGPA: 4.17
National Open University of Nigeria

2018 **Master in Information Technology**
Ladoke Akintola University of Technology, Ogbamoso

(In view) **BSc in Computer Science**
Southwestern University, Nigeria

2015 **HND in Computer Science** (Distinction)
Lagos City Polytechnic, Ikeja

2011 **ND in Computer Science** (Distinction)
Lagos State Polytechnic, Ikorodu

2016 **BA in Education / Fine and Applied Arts**
CGPA: 4.16 (Second Class Honours, Upper Division)
University of Nigeria, Nsukka

2011 **ND in General Art** (Upper credit)
Yaba College of Technology

INTERESTS

- STEAM Education, Computer Programming, Artificial Intelligence and Fine Art (Drawing, Painting and Graphics Design)

PROFESSIONAL CERTIFICATIONS

2008 - 2011 **Microsoft Certified Technology Specialist (MCTS)**
(Microsoft Corporation)

2011 **Microsoft Certified Professional Developer (MCPD) .NET Developer**
(Microsoft Corporation)

2011 **Oracle Certified Professional Java Programmer (OCPJP)**
(Oracle University, Oracle Corporation)

2024 **Python Certified Software Developer**
(Power Learn Project, Kenya)

2024 **Advanced Cybersecurity Training for Teachers**
(Commonwealth of Learning, Canada)

2024 **Artificial Intelligence (AI) for Teachers**
(Commonwealth of Learning, Canada)

2025 (1) **Learning To Learn Online**
(2) **Fundamentals of Business**
(3) **Business Communications**
(Monarch Business School, Switzerland)

MEMBER OF PROFESSIONAL BODIES

- **National Association for Research in Science Teaching (NARST)**, Virginia US
Member ID: 78904307
Personalized URL: https://members.narst.org/member/ben_onuorah
- **Computer Professionals (Registration Council of) Nigeria (CPN)**
Registration is on going

AFFILIATIONS

2023 **Fellow of Ife Institute of Advances Studies (IIAS)**.
(Obafemi Awolowo University, Ile Ife, Nigeria)

2023-Till date **Member of the International Research Group**
Headed by Prof. Juma Shabani, Prof. Peter Okebukola and Prof. Sue Tunnicliffe

GRANT AWARD
One of the three winners of LASU-ACEITSE entrepreneurial grant scheme
Date: 26th July 2024
Amount: 2,500,000 naira
Sponsored by: world bank
Project title: TEA Learn Online Learning and Management System
Project website: https://tealearn.org

TEACHING/ACADEMIC EXPERIENCE

From 2022	**TEA Learn**
	- Developer of the online learning management system (tealearn.org)
	- Create course content and taught PHP, MySQL, Python, Flask and Artificial Intelligence online

2020- 2021	**Utiva**
	Programming Faculty Member
	- Created programming videos and taught PHP programming

2016-2018	**Daleware Institute of Technology, Lagos, Nigeria**
Responsibilities:	Lecture ND1 and ND2 (100 and 200 Level) software engineering students on programming (C++ and Java), web development (HTML, CSS, JavaScript and PHP/MySQL). Set and administration semester test and examination

2014 - 2015	**Timglobal Institute of Technology, Lagos**
Responsibilities:	Part-time Web Design and Programming instructor
	- Taught PHP and Java

2005-2008	**Vizon Computer Institute, Lagos, Nigeria**
Responsibilities:	IT instructor and Web Designer

- Taught computer basic and Microsoft Windows Operating System 98, 2000, XP

- Taught Microsoft Office Packages; MS Word, MS Excel, MS Power Point and MS Access

- Taught desktop publishing using Corel draw and Adobe PageMaker

- Taught Web Design and Development using Microsoft Frontpage, HTML, ASP (Active Server Pages) with VBScript and JavaScript

2022   **Lagos State University of Education, Oto/Ijanikin**
Six weeks teaching internship at the department of computer science education

Grading Facilitator for Virtual Institute for Capacity Building in Higher Education (VICBHE); National Universities Commission

- 2023: Grading Facilitator in the training course on "Theory, practice and current developments in quality assurance in higher education"
- 2024: Grading Facilitator in the training course on "Artificial Intelligence for teaching, researcher and community service"

PROJECTS SUPERVISION

Assisting distinguished Professor Peter Okebukola as an associate supervisor in teaching and guiding students with their research projects and thesis

Project title: Exploring the Effectiveness Of The Culturo-Techno-Contextual Approach (CTCA) in Enhancing the Achievement and Attitude of Secondary School Students Towards Machine Language
Degree: BSc (Ed). Computer Science Education
Department: Science And Technology Education
University: Lagos State University, Ojo, Lagos.
Student name: Abdulazeez Balogun
Year: 2023

Project title: Cognitive Task Analysis and Teachers' Perception of the Impact of CTCA and TEA 1.0 in Improving Students' Achievement in and Attitude to Cell Division (Mitosis and Meiosis)
Degree: BSc (Ed). Biology Education
Department: Science And Technology Education
University: Lagos State University, Ojo, Lagos.
Student name: Ege Tibiebi Helen
Year: 2024

Thesis title: Enhancing Student s' Performance in Cognitive Task Analysed Biology Difficult Topics and Entrepreneurship: A Comparative Study of CTCA 2.0 Delivered through Mono and Multilingual Modes
Degree: PhD in STEM Education And Entrepreneurship (Biology) - in view
University: Lagos State University, Ojo, Lagos.
Student name: Idowu Olufayo Ayole
Year: In view

PROFESSIONAL EXPERIENCE

2008 - Current	**BenOnuorah.com**

Responsibilities: Freelance Software Engineer, Fine Artist, Graphic designer and Edu. Tech. expert

- Design and development of the Learning Management Software
- Development of the Computer Based Testing Software
- Development of the Digital Classroom system
- Teaching Programming and Web Development
- Web Design and Software Development
- Computer graphics, Animation, and Illustration.

2015 – 2017	**Soft Solutions Ltd, Lagos, Nigeria**

Responsibilities: Software engineering consultant responsible for:

- Continuous development and maintenance of the existing Human Resources Management System. Modules worked on includes HR, Payroll, Leave and Appraisal Management Modules
- Worked with the front-end UI designer to implement the mobile responsive version of the developed software

2012 – 2016	**360 Businesses Intelligent, Ikeja, Lagos**

Responsibilities: Worked with the SATTRAK team to re-engineer, design and develop the Fleets management system for Etisalat Nigeria.

2004-2005	**Codespro Solution Ltd. (Formally HS System), Lagos, Nigeria**

Responsibilities: Graphic Designer and Programmer
- Conceptualization of Design using sketches
- Using Macromedia (now Adobe) Fireworks to Design graphics, such as logo and web banner
- First programming experience using BASIC programming language, Microsoft Visual Basic 6.0 then later web programming

SKILLS AND COMPETENCIES

- Research, Development and Teamwork
- Creative, visualization and imaginative skills (Drawing, Illustration and Painting)
- HTML, CSS, Bootstrap, Web Graphics using Adobe Fireworks
- PHP, Python, Flask, Scikit Learn, Open CV, C# and Java

GRAPHICS DESIGN

- Graphics design projects, such as logo and banners
  https://benonuorah.com/graphics
- Book Illustration of "Anyanwu: by Obiora Nwazota for Okpara House, Texas
  https://www.okparahouse.com/anyanwu
  https://span.studio/projects/anyanwu
- Book cover art and design of "Soul Lounge" by Mike Ekunno
  https://rhbooks.com.ng/product/soul-lounge/

WEBSITE / APPLICATION PROJECTS

Some selected recent websites and applications I have developed and deployed:

- Online learning platform with LMS module
  https://tealearn.org/
- An online shopping web application
  https://goflexroute.com.ng/
- An academic journal publication portal of the faculty of education, Lagos State University
  https://educationalperspectives.org.ng/
- Science Teachers Association of Nigeria (STAN), Lagos State Chapter
  http://stanlagos.org.ng/
- A robust School Management System and CBT portal
  https://software.bicl.com.ng/school
- Hospital Management System
  https://software.bicl.com.ng/medsys
- Dr. Nike Buraimoh's Eco-Friend Organic website
  https://ecofriendorganic.com/

- African Regional Society For Energy and Environmental Media

    https://afriseem.com/

- Yoruba Council website with membership management system

    https://yorubacouncil.org

- Golan Heights Renaissance (GHR), artist website with online art gallery portal

    http://ghr.com.ng/

- Personal professional website

    https://benonuorah.com/

- School website with school management system integration

    http://starlightacademy.com.ng/

- Veno online blogging website

    https://venointernational.com/

AI / MACHINE LEARNING PROJECTS

- **Development and Implementation of Chatbot Model for Student Support System in Open and Distance Learning Institutions**
  With Prof. Juliana Ngozi NDUNAGU and Dr. Christy Ezeanya (National Open University of Nigeria) and Mba David Ugochukwu (Strategic Business Techspace)

- **Development an AI-based System for Real-time Detection and Prevention of Email Phishing Attacks**
  With Okoh Godwin Michael, MSc Cyber Security.

- **Enhancing DDoS Attack Detection and Prevention Using Machine Learning**
  With Augustina Amauchechukwu Nnaji, MSc Cyber Security.

- **Detecting and Preventing Phishing Attacks Using Machine Learning Methods**
  With Taiwo Monsuru Agboluaje, MSc Cyber Security. Manchester Metropolitan University, UK

- **Artificial Intelligence for Fraud Detection in Financial Transactions**
  With Kolawola Adegbeyeni, MSc Cyber Security. Manchester Metropolitan University, UK

- **TEA Artificial intelligence Evaluation Portal (TAIEP)**
  Development of artificial intelligence model which uses a Computer Vision (CV) algorithm to grade students' drawings (PhD research outcome).

PUBLICATIONS

1. Juliana Ngozi Ndunagu, Christiana Uchenna Ezeanya, **Benjamin Onuorah**, Jude Chukwuma Onyeakazi and Elochukwu Ukwandu. (2025). A Chatbot Student Support System in Open and Distance Learning Institutions. Computers, 14(3), 96. https://doi.org/10.3390/computers14030096. https://www.mdpi.com/2073-431X/14/3/96

2. Uchenna Ugwuoke , Peter Okebukola , Ekwam Emmanuel , Franklin Onowugbeda and **Benjamin Onuorah** (2024) "Fostering positive instruction of software development cycle through a culturally responsive pedagogy". The Journal of Educational Research https://www.tandfonline.com/eprint/E2SGVMCKDKRZN6R8NGID/full?target=10.1080/00220671.2024.2426526 (Scopus Indexed Journal)

3. Benjamin Onuorah, Peter Okebukola , Michael Ahove, Uchenna Ugwuoke and Ekwam Emmanuel. "Effect of Technology-Education-Art (TEA) Artificial Intelligence Model on Students' Attitude towards Biological Drawing" (Manuscript ID: JARHE-12-2024-0730.R1). Journal of Applied Research in Higher Education (Scopus Indexed Journal - reviewed manuscript submitted)

4. Benjamin, O., Badmus, A. M. and Salawu, I. O (2020)
   "Effects of computer animation on academic performance of technical college students in visual arts concepts in Lagos state, Nigeria", AAUA Journal of Science and Technology Education, Vol 3, No 1, pp 91 - 101.

CONFERENCES PRESENTATIONS

1. 2025 NARST (National Association for Research in Science Teaching, Virginia US) Annual International Conference.
   Title: Effect of Technology-Education-Art (TEA) Artificial Intelligence Model on Students' Attitude towards Biological Drawing
   Benjamin O. Onuorah, Peter A. Okebukola, Michael Ahove, Sanni Rasheed, Juma Shabani, Franklin Onowugbeda

2. 2025 NARST (National Association for Research in Science Teaching, Virginia US) Annual International Conference.
   Title: Effect of Technology-Education-Art (TEA) Artificial Intelligence Model on Students' Attitude towards Biological Drawing
   Michael Ahove, Benjamin O. Onuorah, Peter A. Okebukola, Sanni Rasheed, Juma Shabani

3. 8th Annual STEM Education Conference at South Padre Island, Texas. 2025
   Title: Attitude of students towards the use of LMS and AI in biological drawing in Africa
   Date: February 13-15, 2025
   Benjamin O. Onuorah, Peter A. Okebukola, Michael Ahove

4. Association for the Advancement of Artificial Intelligence (AAAI) and Social Impact of AI for Africa (SIAI)

Title: Impart of Technology-Education-Art (TEA) AI and web application on the attitude of higher institution students in biological drawing in Lagos, Nigeria
URL: https://www.siai.co/program/videos#h.g5xb3u4vgkdq
Date: February 20 – 27, 2024
Benjamin O. Onuorah, Peter A. Okebukola, Michael Ahove

5. International Research Group (IRG) First International Conference Registration
   Title: Development of Technology-Education-Art (TEA) Application and Exploration of its Impart on Students' Attitude towards Biological Drawing
   Date: July 11 – 12, 2023
   Benjamin O. Onuorah, Peter A. Okebukola, Michael Ahove

6. 2nd National Conference, School of Technical Education (2015),
   Yaba College of Technology in affiliation with University of Nigeria, Nsukka.
   Title: Change in ICT usage for Educational Development in Nigeria

REFEREES
Distinguished Emeritus Professor Peter Okebukola, OFR
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University of Virginia
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