

Benjamin Osondu Onuorah, PhD
Fine Artist · Software Engineer · AI Researcher

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EDUCATIONAL INSTITUTION ATTENDED AND ACADEMIC QUALIFICATIONS

- | | |
|------|---|
| 2024 | Doctor of Philosophy (PhD) in ICT Education (Artificial Intelligence)
<i>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</i>
Supervisor: Distinguished Emeritus Professor Peter Okebukola, OFR
Lagos State University |
| 2021 | Master of Fine Arts (MFA) in Painting
<i>Project Title: Exploration of Pareidolia Phenomenon for Mixed-Media Painting</i>
University of Benin, Benin City |
| 2020 | Master of Education (M.Ed.) in Educational Technology
<i>Project Title: Effect Of Computer Animation on Academic Performance of Technical College Students in Visual Arts Concepts In Lagos State, Nigeria</i>
National Open University of Nigeria |
| 2018 | Master in Information Technology (MIT)
Ladoke Akintola University of Technology, Ogbamoso |
| 2016 | Bachelor of Arts (BA) in Education / Fine and Applied Arts
CGPA: 4.16 (Second Class Honours, Upper Division)
University of Nigeria, Nsukka |
| 2015 | Higher National Diploma (HND) in Computer Science (Distinction)
Lagos City Polytechnic, Ikeja |
| 2011 | National Diploma (ND) in Computer Science (Distinction)
Lagos State Polytechnic, Ikorodu |
| 2011 | National Diploma (ND) in General Art (Upper credit)
Yaba College of Technology |

SKILLS AND COMPETENCIES

- Research, Writing, Drawing, Illustration, Painting, Graphics (Adobe Fireworks and Corel Draw)
- HTML, CSS, JavaScript, Bootstrap, PHP, Python, Flask, MySQL, Artificial Intelligence

PROFESSIONAL CERTIFICATIONS

- | | |
|-------------|---|
| 2008 - 2011 | Microsoft Certified Technology Specialist (MCTS)
(Microsoft Corporation) |
| 2011 | Microsoft Certified Professional Developer (MCPD)
(Microsoft Corporation) |
| 2011 | Oracle Certified Professional Java Programmer (OCPJP)
(Oracle University, Oracle Corporation) |
| 2023 | Practical Skills for Delivering CCMAS in an Online Environment
Virtual Institute for capacity building in Higher Education (VICBHE) |
| 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 / AFFILIATIONS

- **Association for the Advancement of Artificial Intelligence (AAAI)** Nigeria
Honourary Member (2025)
- **National Association for Research in Science Teaching (NARST)**, Virginia US
Member ID: 78904307
Personalized URL: https://members.narst.org/member/ben_onuorah
- **Fellow of Ife Institute of Advances Studies (IIAS)**. 2023 Cohort
Obafemi Awolowo University, Ile Ife, Nigeria

GRANT AND AWARDS

- 2024 - One of the three winners of LASU-ACEITSE entrepreneurial grant scheme
Date: 26th July 2024
Sponsored by: world bank
Project title: TEA Learn Online Learning and Management System
Project website: <https://tealearn.org>
- 2025- Sir Ahmadu Bello Sarduna Distinguished Merit Award
Presented by National Association of Northern Nigerian Students (NANNS)
- 2027 - Stewardship Award. Presented by Society of Nigeria Artist, Lagos State Chapter

PROFESSIONAL EXPERIENCE

2025 – Till date	Technova Technologies Limited, Ikeja, Lagos <ul style="list-style-type: none">• Software engineer
2008 – Till date	BenOnuorah.com Freelance Software Engineer, Web Developer, Fine Artist, Graphic designer, AI and EdTech Professional
2015 – 2017	Soft Solutions Ltd, Lagos, Nigeria Software engineering consultant responsible for: <ul style="list-style-type: none">• 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 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 Graphic Designer and Programmer <ul style="list-style-type: none">• 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

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

More than 100 web projects developed and deployed:

- Online learning platform with LMS module
<https://tealearn.org/>
- An online shopping web application
<https://goflexroute.com.ng/>

For more, visit <https://bicl.com.ng/website>

TEACHING/ACADEMIC EXPERIENCE

2025 – till date	Vision University , Ikogbo, Ota, Ogun State - Computer Science Lecturer
2022 – till date	Technology.Education.Art (TEA) tealearn.org - Developer of the online learning management system (tealearn.org) - Create course content and taught PHP, MySQL, Python and AI 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
- 2023/2024** Grading Facilitator for Virtual Institute for Capacity Building in Higher Education (VICBHE); National Universities Commission

PROJECTS SUPERVISION

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

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

Project title: Effectiveness Of Three Multilingual Modes On Delivering CTCA 2.0 On Student's Performance In Two Difficult Biology Concept

Degree: BSc (Ed). Biology Education
University: Lagos State University, Ojo, Lagos.
Student name: Anjorin Abdulwarith Adeniyi
Year: 2025

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 Amauchekwukwu 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. **Onuorah B**, Okebukola P, Arove M, Oladejo A, Gbeleyi O, Sanni R. (2025). Culturo-Techno-Contextual Approach (CTCA) and Visual Art Drawing Education in Nigeria. *Educational Perspectives*, 13(2B), 607-629.
2. **Benjamin Osondu Onuorah**, Emmanuel Okyere Ekwam, Peter Okebukola, Michael Arove, Uchenna Ugwuoke (2025) Effect of technology-education-art (TEA) artificial intelligence model on students' attitude toward biological drawing. *Journal of Applied Research in Higher Education*; <https://doi.org/10.1108/JARHE-12-2024-0730>
3. 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>
4. 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>

5. 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 Arove, 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 Arove, 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 Arove
4. Association for the Advancement of Artificial Intelligence (AAAI) and Social Impact of AI for Africa (SIAI)
Title: Impact 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 Arove

REFEREES	
Professor Arove Adetunji Michael Lagos State University Phone number: +2348033247047 Email: tjahove@gmail.com	Dr. Olasunkanmi Adio Gbeleyi Lagos State University Phone number: +2348068435929 Email: olasunkanmi.gbeleyi@lasu.edu.ng