Dr. Benjamin Osondu Onuorah

Interest: *Software Engineering, Artificial Intelligence, Educational Technology & Fine Art*

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Address: Number 7, Route A C2, Royal City CDA, Oba Fashina Estate, Sokoto Road, Atan, Ota, Ogun State.

EDUCATIONAL INSTITUTION ATTENDED AND ACADEMIC QUALIFICATIONS

2024: **Doctor of Philosophy (PhD) in ICT Education (Artificial Intelligence)**
Lagos State University

2020: **Master of Education (M.Ed.) in Educational Technology**
National Open University of Nigeria

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

2021: **Master of Fine Arts (MFA) in Painting**
University of Benin, Benin City

Progress: **Master of Science (MSc) in Financial Engineering**
Completed 70% Estimated conferment date October 2027
WorldQuant University, Washington, D.C. USA

2025: **Bachelor of Science (BSc) in Computer Science**
(Second Class Honours, Upper Division)
Southwestern University, Nigeria

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, C#, 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, (4) Organizational Behavior, (5) Personal Finance
(6) Management Information Systems (7) Project Management
Monarch Business School, Switzerland

2025 **Foundations of Financial Engineering**
WorldQuant University

MEMBER OF PROFESSIONAL BODIES / AFFILIATIONS

- **Association for the Advancement of Artificial Intelligence (AAAI)** Nigeria
  Honourary Member (2025)
- **Fellow of Ife Institute of Advances Studies (IIAS)**. 2023 Cohort
  Obafemi Awolowo University, Ile Ife, Nigeria
- **Nigeria Computer Society (NCS), Nigeria** - Member, Membership Number: 20350 (2026)
- **Computer Professionals Registration Council of Nigeria (CPN)** - Member (Registration in Progress / Expected 2026)
- **Society of Nigeria Artists (SNA)**, Lagos State Chapter - Member

- **Arts in Medicine Fellowship (AIM)** - Fellow (2018)

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

TEACHING/ACADEMIC EXPERIENCE

2026 - till date	**Iconic Open University**, Sokoto - Part-time: student project supervisor in the department of software engineering and information
2025 - till date	**Vision University**, Ikogbo, Ota, Ogun State - Lecturer in the department of computer Science and cybersecurity
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

PROFESSIONAL EXPERIENCE

2008 – Till date **BenOnuorah.com**
Freelance Software Engineer, Web Developer

Studio artist (painting, drawing and graphics artist)

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

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 software developed

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

- 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

WEBSITE / APPLICATION PROJECTS

- Visit *https://bicl.com.ng/website* to see website projects
- Online learning platform with LMS module https://tealearn.org/

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/

PROJECTS SUPERVISION

Co-supervision with Distinguished Emeritus Professor Peter Okebukola:

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

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 progress
University: Lagos State University, Ojo, Lagos.
Student name: Idowu Olufayo Ayole
Year: in progress

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. Okoh, G., Houlden, N., Gbeleyi, O., & **Onuorah, B.O.** (2026). *AI CyberGuard: Real-Time Detection & Prevention of Email Phishing Attacks*. Manuscript ID: JCS-26-0439. Submitted to *Journal of Computer Security*, July 24, 2026. Status: Under review.

2. **Onuorah, B.O.**, Okebukola, P., Ahove, M., & Gbeleyi, O. (2026). *Integrating the Culturo-Techno-Contextual Approach (CTCA) in Visual Art Education in Nigeria*. In P. A. Okebukola (Ed.), *Tackling Grand Challenges in Education in Africa in the Context of Emerging Technologies* (pp. 520–531). Sterling Publishers: Slough, UK and Delhi.

3. **Onuorah, B. O**., Ekwam, E. O., Okebukola, P., Ahove, M., & Ugwuoke, U. (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

4. **Onuorah, B. O.**, Okebukola, P., Ahove, 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.

5. Ndunagu, J. N., Ezeanya, C. U., **Onuorah, B.O.,** Onyeakazi, J. C., & Ukwandu, E. (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

6. Ugwuoke, U., Okebukola, P., Ekwam, E., Onowugbeda, F., & **Onuorah, B.O.** (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

7. **Onuorah, B.**, 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. IfeIAS Science Event – Ife Institute of Advanced Studies (IAS)
   Theme: "Community of Practice: Collaboration and Academic Leadership for Science and Technology Education and Research in Africa"
   Date: November 19–23, 2024

5. 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

6. 2nd National Conference – School of Technical Education, Yaba College of Technology (in affiliation with University of Nigeria, Nsukka)
   Theme: "Revitalizing Tertiary Education as an Agent of Change for National Development"
   Date: November 16–19, 2015
   Role: Attendee and Presenter
   Paper: "Change in ICT Usage for Educational Development in Nigeria NEMSacademy.com"

REFEREES	
Professor Ahove 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



Benjamin O. Onuorah, PhD