Biography of Dr. Emmanuella Chinonye Mary Obasi

Dr. Emmanuella Chinonye Mary Obasi is a distinguished Nigerian academic and researcher in Computer Science, with over a decade of experience in teaching, research, and administration in higher education. Originally from Ihiala Local Government Area, Anambra State, she married Obasi Emmanuel Chima M. from Ngor-Okpala Local Government Area, Imo State, in 2011. The couple has four children and resides at Mater Ecclesiae Catholic Church, Eneka, Port Harcourt, Rivers State.

Educational Background

Dr. Obasis academic journey is marked by consistent excellence. She earned her First School Leaving Certificate from Umuohi Central School, Okija, Anambra State, in 1992, followed by her Senior Secondary School Certificate Examination (SSCE) from Community Secondary School, Ihembosi, in 2000. She obtained a Bachelor of Technology (B.Tech.) degree in Computer Science with Second Class Upper Division from the Federal University of Technology, Owerri (FUTO), between 2001 and 2006. She pursued a Master of Science (M.Sc.) in Computer Science at the University of Lagos, Akoka, from 2008 to 2010, graduating as the top student in her department. To enhance her pedagogical skills, she completed a Post Graduate Diploma in Education (PGDE) at the National Teachers Training Institute, Kaduna, between 2015 and 2016. She culminated her academic pursuits with a Doctor of Philosophy (Ph.D.) in Computer Science, specializing in Artificial Intelligence and Databases, from the University of Port Harcourt between 2017 and 2023, achieving an outstanding CGPA of 4.65.

Professional Experience

Dr. Obasis academic career began with a Teaching Assistantship Award in the Department of Computer Science at the University of Lagos in 2009. She joined the Federal University Otuoke in 2014 as an Assistant Lecturer, rising through the ranks to Lecturer II in 2017, Lecturer I in 2020, and Senior Lecturer on October 1, 2023, in the Department of Computer Science and Informatics. She also served as a Lecturer II at Madonna University, Elele, in 2014 and as a part-time lecturer at Dalewares Institute of Technology, Surulere, from 2010 to 2011. During her National Youth Service Corps (NYSC) in 20072008, she taught Computer Science and Mathematics at Government Day Secondary School (Army Unit), Takum, Taraba State, and served as a Development Knowledge Facilitator for the Millennium Development Goals (MDG) Project in Abuja.

Her teaching portfolio spans undergraduate and postgraduate courses, including Database Management Systems, Computer Networks, System Analysis and Design, Compiler Construction, Web Programming, Numerical Methods, Operating Systems, Computer Architecture, and Computer Appreciation and Application. She has supervised numerous student research projects and held administrative roles such as GES Coordinator (20182021), Course Level Adviser (20192022), Chairperson of the Manual Review and Curriculum Review Committees, and member of the Faculty of Science Conference and Accreditation Committees.

Awards and Recognitions

During her NYSC service in Taraba State, Dr. Obasi distinguished herself through exceptional teaching and community development initiatives, earning multiple prestigious awards:

- **NYSC State Honors Award (Taraba State)**: Recognized for her commitment to teaching, mentoring, and promoting ICT education at Government Day Secondary School, Takum. She established a Computer Science Department, equipping it with computers, printers, photocopiers, chairs, and tables, significantly enhancing students digital literacy.

- **MDG State Honors Award (Taraba State)**: Awarded for her role as a Development Knowledge Facilitator, training corps members and volunteers in skills acquisition and sustainable development projects to advance the MDGs.

- **MDG National Project Award (North-East Geopolitical Zone)**: Acknowledged her impact in promoting ICT literacy, mathematics education, and sustainable development across Taraba State and the North-East Zone, aligning with the global MDG framework.

She has also received commendations from the Taraba State Teaching Service Board, Takum Local Government, and the Nigerian Army for her contributions to education and community development.

Research and Publications

Dr. Obasi is an accomplished researcher with over forty peer-reviewed publications, including international and local journal articles and book chapters. Her research interests encompass Artificial Intelligence, Machine Learning, Distributed Databases, Cybersecurity, Natural Language Processing, and Explainable AI. She has presented papers at notable conferences, including the Nigerian Society for Pharmacological Sciences and Experimental Therapeutics (NISPET), the International Conference on Advancement in Research, Innovation, Scholarship, and Enterprise at Topfaith University (2024), and Nigeria Computer Society conferences. She delivered a keynote address at the Federal University Otuoke Workshop in March 2025 on Research Security: Protecting Intellectual Property and Sensitive Information.

Research Grants

Dr. Obasi has secured several competitive research grants, reflecting her leadership in interdisciplinary research:

- **TETFund Institution-Based Research Grant (October 2024)**: As Lead Researcher, she secured $2,671 for the project Machine Learning Approach to Inform Malaria Control in Bayelsa State, developing predictive models for malaria surveillance and control.

- **CCDC FAIRE Grant (October 2024)**: In collaboration with Dr. Olufunso Abosede, this grant supported CSD Enterprise Software Licensing for crystallographic and structural data analysis, enhancing computational research infrastructure.

- **CCDC Engagement Grant (November 2024)**: Co-awarded with Dr. Olufunso Abosede, valued at č1,400,000, to promote crystallography and structural science through research, education, and community outreach, integrating machine learning techniques.

Professional Affiliations and Certifications

Dr. Obasi is a member of the Nigeria Institute of Management (2008), Computer Professionals (Registration Council) of Nigeria (2016), Nigeria Computer Society (2018), National Association of Artificial Intelligence Practitioners (2024), and the American Chemical Society (2025). Her certifications include:

- Artificial Intelligence for Teaching, Research, and Community Service (VICBHE, 2025)

- Artificial Intelligence in Art and Animation (Vitalearning Academia, 2025)

- Certificate of Proficiency in Cyber Security with Distinction (VICBHE, 2025)

Community Service and Extracurricular Interests

Beyond academia, Dr. Obasi volunteers as a Mathematics teacher at St. Charles Borromeo Seminary, Imiringi, Bayelsa State, and contributes to the Mater Ecclesiae Catholic Church, Eneka. Her extracurricular interests include Python and R programming, web development, Power BI, AI tools (e.g., Plotagon, Fliki AI, Virbo), volunteering in machine learning projects, teaching, counseling, listening to music, and reading motivational books.

Professional References

- Prof. Johnson Ohakwe, Dean, Faculty of Science, Federal University Otuoke

- Prof. Virginia E. Ejiofor, Dean, Faculty of Physical Sciences, Nnamdi Azikiwe University, Awka

- Prof. Bartholomew Eke, Department of Computer Science, University of Port Harcourt

Dr. Emmanuella Chinonye Mary Obasi exemplifies academic excellence, innovative research, and dedicated service, making significant contributions to Computer Science and community development in Nigeria and beyond.