

# ANDREW O. BENYEOGOR

950 Colgate Drive, College Station, Texas 77840

📞 989-817-1573 📩 Benyeogorosenwe@gmail.com 💬 LinkedIn 🌐 Website

## Research Interests

Technology-enhanced learning, instructional design in computer science education, low-cost educational technologies, accessible educational technology design, and learning analytics.

## Education

### Central Michigan University

Aug. 2021 – May 2023

*M.Sc. in Information Systems (Lean Six Sigma, Enterprise Systems & Data Analytics)* | GPA: 3.90 Mount Pleasant, MI

- Recipient of the **Dow SAP Award of Excellence** for outstanding performance and innovation in SAP ABAP.
- Served as **SAP ERPSim mentor** for student teams; contributed to teams placing first in two ERPSim competitions.
- Actively involved in SAP Student User Group (CMU Chapter), supporting student training and event coordination.

### University of Benin

Mar. 2014 – Nov. 2018

*B.Sc. in Agricultural Economics and Extension Services* | GPA: 3.78

Edo State, Nigeria

- Undergraduate thesis: *Profitability Analysis of Catfish Farming in Ifo Local Government Area, Ogun State, Nigeria*.

## Peer-Reviewed Publications

- [1] M. E. Chimezie, **A. Benyeogor**, A. Nkamnebe, and Y. Liu, “Trust as a mediator in nigerian e-commerce: Impacts on consumer behavior, product quality, and convenience”, *Open Journal of Business and Management*, vol. 13, no. 01, pp. 258–277, 2025. doi: 10.4236/ojbm.2025.131016.
- [2] M. S. Benyeogor, **A. O. Benyeogor**, K. A. Olaiya, and P. Agumey, “Advancing embedded systems education: A pedagogical programming framework for smart system and control applications”, *SPC Journal of Education*, vol. 5, no. 1, pp. 1–22, 2024. [Online]. Available: <https://www.sciencepubco.com/index.php/JE>.
- [3] T. L. Igbigbi, M. S. Benyeogor, **A. O. Benyeogor**, K. P. Nnoli, A. R. Bhuiyan, and M. S. Aliero, “Desktop factory: A laboratory-scale multisignal RF/PID-based automation framework for industrial telematics and control experiments”, in *XVI Technologies Applied to Electronics Teaching Conference (TAAE)*, Malaga, Spain, 2024, pp. 1–9. doi: 10.1109/TAAE59541.2024.10604887.
- [4] M. S. Benyeogor, T. L. Igbigbi, O. I. Lawal, U. T. Akpan, **A. O. Benyeogor**, N. M. Mbachu, K. P. Nnoli, M. S. Aliero, and A. Olatubosun, “Development of microcontroller-based manipulator arm: A trilemma problem-solving framework for robotics and STEM education in Nigerian schools”, in *XVI Technologies Applied to Electronics Teaching Conference (TAAE)*, Malaga, Spain, 2024, pp. 1–8. doi: 10.1109/TAAE59541.2024.10604968.
- [5] L. Ucheagu et al., “Measurement and analysis of no concentration by differential optical absorption spectroscopy: Towards enhanced air quality monitoring”, in *Sustainable and Green Technologies for Water and Environmental Management*, ser. World Sustainability Series, First Online: 23 April 2024, Springer Nature, 2024, pp. 147–159. doi: 10.1007/978-3-031-52419-6\_12. [Online]. Available: [https://link.springer.com/chapter/10.1007/978-3-031-52419-6\\_12](https://link.springer.com/chapter/10.1007/978-3-031-52419-6_12).
- [6] M. S. Benyeogor, A. A. Dahiru, **A. O. Benyeogor**, O. O. Olakanmi, A. Akintola, and B. A. Sodiq, “Prototyping and conceptualizing electric model vehicles to enhance automotive STEM education: Towards sustainable e-mobility”, in *IEEE German Education Conference (GECon)*, Berlin, Germany, Aug. 2023. [Online]. Available: <https://ieeexplore.ieee.org/document/10295128>.
- [7] **A. O. Benyeogor**, T. L. Igbigbi, M. S. Benyeogor, A. A. Dahiru, P. Agumey, and E. B. Uwak, “Algorithmic framework for analyzing and simulating multi-axial robotic transformations in spatial coordinates”, in *2023 Seventh IEEE International Conference on Robotic Computing (IRC)*, 2023, pp. 156–157. doi: 10.1109/IRC59093.2023.00034.

## Service

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- Peer Reviewer, Springer Nature Journals

Reviewed manuscript in intelligent and automated driving systems.

2025

## Relevant Research and Teaching Experience

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### International Leadership of Texas, Aggieland High School

Computer Science and Engineering Teacher - Career Technical Education

August 2023 — Present

College Station, TX

- Instructed multiple high school courses over the past three years including:
  - *Fundamentals of Cybersecurity* – Networking, encryption, Malwares, Ethics, CIA Triad, Raspberry PI, Linux basics
  - *Fundamentals of Computer Science* - Computer organization, Number systems, Web design, digital literacy & ethics
  - *Computer Science I* – Algorithms, Python programming, GUI development with Tkinter...
  - *AP Computer Science A* – Object-oriented programming with Java & Algorithmic thinking...
  - *AP Computer Science Principles* – Creative development, data analysis, algorithms, computing systems & networks
  - *Principles of Applied Engineering* – Engineering history, Technical drawing, programming, Arduino based hands-on
  - *Robotics I* – VEX Robotics hardware assembly, VEX Python programming, competition strategy ..
- Mentored students in extracurriculars including competitive robotics teams and chess club
- Delivered differentiated instruction aligned with TEKS and College Board frameworks

### Central Michigan University

Graduate Assistant

Jan. 2022 – Dec. 2022

Mount Pleasant, MI

- Mentored high school teams for SAP Enterprise Resource Planning (ERP) simulation training, and competitions.
- Assisted a professor in grading students assignments for BIS 638 Database Management for Business Systems.

### Enthusia Private College

Mathematics Teacher (National Youth Service Corp)

Jan. 2019 – Sept. 2020

Ogun State, Nigeria

- Instructed Senior Secondary School students (SS1, SS2, SS3) in comprehensive mathematics curriculum including:
  - *Geometry & Trigonometry* – Angle relationships, trigonometric identities
  - *Sequences & Series* – Arithmetic and geometric progressions
- Prepared students for nigerian national standardized examinations (JAMB, WAEC) through regular revision sessions.

## Selected Work Experience

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### Renmoney Microfinance Bank

Loan Sales Advisor (Analyst) - Sales & Marketing Unit

Oct. 2020 – July 2021

Lagos State, NG

- Used data analytics tools and techniques to analyze loan data trends, assess credit risk, and provide actionable insights.
- Conducted market research and competitive analysis to support strategic decision-making.
- Conducted regular audits and quality checks on financial data, ensuring accuracy and compliance.
- Providing Guidance on Loan Options: Supporting Clients in establishing Repayment Schedules

### Songhai Delta Farm, Amukpe

Farm Management Intern - Feed Production & Inventory Unit

March 2017 – May 2017

Delta State, Nigeria

- Managed livestock feed processing operations from supply chain coordination to final production output
- Conducted quality inspections of incoming feed supplies, ensuring accuracy and compliance with farm standards
- Maintained detailed records of supply inventory, production metrics, and quality control data using Microsoft Excel
- Performed hands-on operational tasks in feed processing facility, contributing to daily production targets

## Webinar Participation

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### TCEA Convention & Exposition

*Texas Computer Education Association — February 3–7, 2024, Austin, Texas*

Professional development conference focused on educational technology, pedagogy, and educational research with 800+ sessions and 450+ exhibitors.

### Advanced Placement Summer Institute for Computer Science Principles

*College Board — July 22–25, 2024, Texas Christian University, Fort Worth, Texas*

Intensive professional development workshop for AP Computer Science Principles instructors emphasizing curriculum design, equity in computing education, and pedagogical best practices.

## Paper Presentations

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### XVI TAEEL Congress (Virtual Presentation)

*Technology, Learning and Teaching of Electronics Association — June 26–28, 2024, Málaga, Spain*

Presented the work: “Development of Microcontroller-Based Manipulator Arm: A Trilemma Problem-solving Framework for Robotics and STEM Education in Nigerian Schools”

Authors: Andrew O. Benyeogor, Muhammad S. Aliero, Kosisochukwu Nnoli, Mbadiwe Samuel Benyeogor, Tobore L. Igbigbi, Udoh T. Akpan, Olusegun I. Lawal, Nnaemeka M. Mbachu, Adeboye Olatunbosun

### XVI TAEEL Congress (Virtual Presentation)

*Technology, Learning and Teaching of Electronics Association — June 26–28, 2024, Málaga, Spain*

Presented the work: “Desktop Factory: A Laboratory-scale Multisignal RF/PID-based Automation Framework for Industrial Telematics and Control Experiments”

Authors: Andrew O. Benyeogor, Muhammad S. Aliero, Kosisochukwu Nnoli, Ataur Rahaman Bhuiyan, Mbadiwe Samuel Benyeogor, Tobore L. Igbigbi

## Awards & Honors

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### Dow SAP Award of Excellence

*Fall 2022*

- Awarded for outstanding performance in SAP Configuration and ABAP coursework at Central Michigan University.
- Selected by a joint committee of CMU faculty and Dow employees.
- Competitive award open to all undergraduate and graduate students enrolled in the fall SAP/ABAP course.
- Recognized for an exceptional ABAP project that demonstrated advanced technical competence.

### ERPsim Competition – Third Place

*2022*

- Finished third in a real-time SAP enterprise simulation competition.
- Demonstrated strong skills in decision-making, resource allocation, and cross-functional ERP strategy.
- Competed against student teams using SAP S/4HANA in a dynamic market scenario.

## Relevant Technical Skills & Core Competencies

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- **Core Competencies:** STEM curriculum design, CTE program development, project-based learning, instructional technology integration, robotics in education, learning analytics, educational research and assessment.
- **Programming & Data Analysis:** Python, Java, C++, R, SQL; scikit-learn, OpenCV, data mining, sentiment analysis, learning analytics.
- **Development Environments & Robotics:** PyCharm, VS Code, Jupyter Notebook, Arduino IDE, VEX V5, Micro:bit, Raspberry Pi; embedded systems for STEM education.
- **Visualization & Dashboards:** Tableau, Power BI, Google Colab, matplotlib, seaborn, ttkbootstrap.
- **Web Development & Version Control:** HTML/CSS, FastAPI, Django, NextJS; Git/GitHub.

## Projects

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### SAP ABAP Payroll & Timesheet Management System | SAP ABAP, SQL, SAP NetWeaver

[GitHub](#)

- Designed and implemented an payroll and timesheet management system using SAP ABAP
- Created custom SAP programs for automated payroll calculations, timesheet validation, and employee data management
- Developed user-friendly transaction codes and ALV reports for HR department workflow optimization

## Professional Memberships

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- Computer Science Teachers Association (CSTA)
- Project Management Institute (PMI)

2023–Present

2022–Present

## Professional Certifications

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• Tableau Desktop Specialist	<i>Earned: 2023</i>
• Lean Six Sigma Green Belt	<i>Earned: 2022</i>
• SAP Certified Application Associate – SAP TS410	<i>Earned: 2022</i>
• SAP Certified Development Associate – ABAP	<i>Earned: 2023</i>
• Project Management Professional (PMP)	<i>Earned: 2025</i>
• Learning Analytics Fundamentals – ITCILO	<i>Earned: 2025</i>
• Arduino Certification - Electronics & Physical Computing	<i>Earned: 2025</i>

## Hobbies

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Wildlife Observation, Aquaculture & Small-Scale Farming, Outdoor Exploration, Data Science Projects, Travelling, Sensor-based DIY Projects, Watching Documentaries, and Teaching