

Idowu David Awoyemi

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Education

Ph.D. Instructional Technology, University of Alabama, Tuscaloosa, AL	2023 - present
M. Tech Educational Technology, Federal University of Technology Minna, Nigeria	2016 - 2019
B. Tech Mathematics Education, Federal University of Technology Minna, Nigeria	2009 –2015

Research and Work Experience

Research Assistant, University of Alabama, Tuscaloosa, AL, United States. January 2023 -Present
Supervisor: Dr. Jewoong Moon, and volunteering with Dr. Feiya Luo

- Designing immersive virtual reality intervention for undergraduate engineering students
- Conducted statistical analysis using advanced tools to derive meaningful insights from research data.
- Orchestrated the systematic management of research data, ensuring accuracy and completeness.
- Played a pivotal role in the development of manuscripts and research proposals.
- Applied learner analytics techniques to assess and interpret data related to educational outcomes.
- Demonstrated expertise in analyzing both qualitative and quantitative research data.
- Co-designing, developing, and delivering professional development training for district teachers.
- Co-designing, developing, and delivering computer-based physiological instruction to upper elementary students.

Instructional Design Intern, August, 2023 – December,2023
The Office of Teaching Innovation and Digital Education, AL, United States.
Supervisor: Roger Woodard, Dr. Elizabeth McDonald, and Dr. McNeill

- Proficiently utilized cutting-edge e-learning design tools to create engaging and interactive content. This involved hands-on experience with industry-standard tools such as Articulate Storyline 360, ensuring a seamless learning experience for users.
- Effectively collaborated with Subject Matter Experts (SMEs) to extract relevant content and translate complex information into accessible and learner-friendly formats.
- Developed a keen understanding of the importance of quality assurance matter in instructional design.
- Demonstrated proficiency in navigating and utilizing Learning Management Systems, with a focus on creating a user-friendly interface and optimizing the learning experience for end-users.
- Successfully integrated third-party tools to enhance the functionality and interactivity of e-learning content.
- During my onboarding, I engaged in a well-designed course focused on optimizing new employee orientation.
- Developed expertise in creating courses using Blackboard Learn, contributing to a seamless learning environment for students and educators.

Research and Instructional Design Assistant,

Department of Educational Technology, Federal University of Technology, Minna, Nigeria

2016- 2022

Supervisor: Dr. O. C. Falode

- Research on the awareness and utilization of Mathematics software applications for developing Mathematics tertiary Instruction.
- Research on the need to maximize virtual Classrooms for effective teaching.
- Teaching research students and undergraduate students.
- Assisted my supervisor in the preparation of instructional materials for teaching.
- Prepared undergraduate students for oral research presentations.
- Assisted in the marking of examination scripts and vetting of undergraduate research work.
- Collaborating with a team to analyze, design, develop, implement, and evaluate learning solutions based on students' needs.
- Facilitating learning strategies and training for the schools and teachers.
- Collaborating with Subject Matter Experts to design training to educate instructors and thus improve their performance.
- Developing learning content using different authoring tools and LMS.
- Analysis of statistical research data using Statistical Tools
- Collection, entry, and interpretation of research data
- Manuscript and proposal writing
- Analyzing research data.

Educator and Classroom Instructor,

Model Secondary School, Federal University of Technology, Minna

2016-2022

Supervisor: Mr. Segun

- Tutored local high school students in Further Mathematics and Mathematics.
- Implemented different learning strategies to enhance the academic performance of students.

- Organized “Best Brains” tutorials for intelligent young high school students.
- Developed and utilized technology-driven solutions for learning
- Involved in role modeling and advisory of students
- Assisted students in meeting academic objectives.
- Conducted technology projects and taught basic technology creative ideas.
- Increased success rate of the students by 100%
- Served as an internal and external examiner to local, national, and international examination bodies.

Mathematics Educator

Abarikpo Community Secondary school, Ahoada, Rivers

2015-2016

- Solved administrative problems for the school which resulted in over 100% improvement in the results of the students.
- Engaged and sustained students in an effective learning process.
- Organized quizzes and exams for the students.
- Tutored local high school students in Further Mathematics and Mathematics.

Leadership Experience

Lab Manager, Adaptive Design of Immersive e-Learning (ADIE) Lab

The University of Alabama, Tuscaloosa, AL

2023 –Present

- Orchestrated multiple research projects focused on immersive learning environments, ensuring alignment with lab objectives and fostering impactful contributions to the field.
- Spearheaded planning, execution, and completion of diverse research initiatives, adeptly managing timelines, budgets, and resources for optimal outcomes.
- Led a multidisciplinary team of researchers and collaborators, providing mentorship and guidance to foster productivity and collaboration within the lab.
- Cultivated partnerships and networks with research groups and stakeholders, enhancing the lab's capabilities and facilitating knowledge exchange to drive innovation in immersive learning.

Senator, Student Government Association,

The University of Alabama, Tuscaloosa, AL

2024 – Present

- Acted as a vocal advocate for the interests and concerns of graduate students, effectively conveying student feedback and perspectives during government meetings and discussions.
- Authored and co-sponsored impactful legislation aimed at improving campus policies, enhancing student resources, and fostering a more inclusive campus environment.
- Collaborated with fellow senators to organize campus-wide initiatives to address student needs and promote positive change.
- Served as a liaison between the student government and campus organizations, faculty, and administration, fostering constructive dialogue and partnerships to advance student interests.

Graduate Student Ambassador,

The University of Alabama, Tuscaloosa, AL

2023 –Present

- Provide support and guidance to new and prospective graduate students.
- Relaying important information, updates, and opportunities to new and prospective graduate students.
- Serves as a representative of the graduate student community.

President,

Christians Student Fellowship, Federal University of Technology, Nigeria 2013- 2014

- Spearheaded the development and implementation of a strategic vision for the fellowship, aligning with the organization's mission and values. Formulated comprehensive short-term and long-term plans to guide the fellowship's growth and impact.
- Facilitated a sense of belonging and unity within the fellowship by organizing regular events, meetings, and retreats. Cultivated an inclusive environment that encouraged fellowship members to connect, support one another, and grow in their faith.
- Led the planning and execution of diverse spiritual programs, including worship services, prayer meetings, and guest speaker events. Ensured that these programs addressed the spiritual needs and interests of the fellowship members.
- Fostered collaboration with other student organizations, both within and outside the campus.
- Implemented programs to develop and empower emerging leaders within the fellowship.
- Established clear and transparent communication channels within the fellowship.
- Collaborated with faculty advisors and campus administrators, maintaining a positive and constructive relationship. Worked closely with advisors to ensure the fellowship's activities aligned with campus policies and regulations.

Class Governor,

The Federal University of Technology, Nigeria

2011- 2014

- Liaison between students and faculty and collecting feedback.
- Organizing class activities and providing academic support for fellow students.
- Monitoring attendance for the faculty members.
- Collaborating with faculty members for the interest of the students.

Skills

Digital Graphic Design
Articulate Storyline and Rise 360
Instructional Design Models
Needs Analysis
Learning Analytics
Storyboard Design
eLearning Design
Leadership Management.
SPSS and R skills
Ability to simplify complex concepts.

Effective time management and organization.
Strong grasp of the Microsoft Office suite (MS OFFICE, POWERPOINT)
Ability to develop learning packages for individualized instruction.
Ability to convert learning content to different electronic formats.

Selected Publications and Presentations

- Awoyemi, I. D.**, Feliza Marie S. M., & Moon, J. (2024). A narrative review on immersive virtual reality in enhancing high school students' Mathematics competence: From TPACK perspective. *Journal of Korean Society of Mathematical Education Series A*. 63(2), 295-318
- Luo, F., Liu, R., **Awoyemi, I. D.**, Crawford, C., & Nasrin, F. (2024, March). Novel Insights into Elementary Girls' Experiences in Physiological Computing. In *Proceedings of the 55th ACM Technical Symposium on Computer Science Education V. 1* (pp. 764-770).
- Awoyemi, I. D.**, & Moon, J. (June 2024). A Systematic review of extended reality technology in k-12 stem education: enhancing learning experiences and outcomes. Alabama Educational Technology Conference. (Conference Presentation).
- Awoyemi, I. D.**, Unggi Lee., & Moon, J. (October 2024). Integration of Automatic Video-Based Behavior Assessment in VR-Based Safety Training. (Poster Presentation).
- Awoyemi, I. D.**, Moon, J., Siyuan, S., & Raissa, M. (October 2024). Development of Immersive Virtual Reality-based Training to Develop Hazard Identification Skills in Civil Engineering Education. (Poster Presentation).
- Luo, F., Nasrin, F., & **Awoyemi, I. D.** (AERA accepted for presentation, April 2025). Broadening participation in computing through cultivating professional growth in teachers of color.
- Awoyemi, I. D.**, Nasrin, F., Luo, F., & Chris Crawford (AERA accepted for presentation, April 2025). Elementary students' conceptions and engagement in physiological computing: A case study of lesson implementation. *Idowu David Awoyemi; *Fatema Nasrin; *Feiya Luo; Chris Crawford
- Nasrin, F., **Awoyemi, I. D.**, Luo, F., Liu, R., & Chris Crawford (AERA accepted for presentation, April 2025). Pupil Diameter Reveals Elementary Students' Cognitive Load Manifestation in Physiological Computing.
- Awoyemi, I. D.**, Moon, J., Siyuan, S., & Raissa, M. (October 2024). Exploring immersive virtual reality for hazard identification training in civil engineering education. 16th Annual Southeastern Universities Graduate Research Symposium. (Conference Presentation).
- Awoyemi, I. D.**, Stephen, A., & Moon, J. (October 2024). Exploring educators' perceptions of integrating game-based learning into high school mathematics instruction. 16th Annual Southeastern Universities Graduate Research Symposium (Conference Presentation).
- Ijeluola, S., **Awoyemi, I. D.**, & Adefisayo, A. (October 2024). Leveraging Generative Artificial Intelligence (gAI) in Learning Design: A Mixed-Methods Examination of Instructional Designers' Experience. (Conference Presentation)
- Ijeluola, S., Adefisayo, A., & **Awoyemi, I. D.** (October 2024). Fostering Technology Integration and Game-Based Learning Solutions for Underserved Nigerian School. (Conference Presentation)
- Awoyemi, I. D.**, & Baah-Mintah, R. (October, 2024). A Literature Review on Educational Leadership and Artificial Intelligence (AI). (Conference Presentation)

- Barielnen, V., & **Awoyemi, I. D.** (April 2024). Improving leadership and functional university education delivery in public universities in Rivers State for sustainable development. 16th Annual Southeastern Universities Graduate Research Symposium (Conference Presentation).
- Awoyemi, I. D.**, & Moon, J. (2023). Teachers' integration of immersive virtual reality in enhancing high school students' mathematics competence in an online learning environment: A Narrative Review. *Immersive Learning Research-Practitioner*, 21-25.
- Moon, Jewoong, Siyuan Song, **Idowu Awoyemi**, Raissa Marchiori, and Sepehr Khorshid. Immersive technology-enhanced learning system design in civil engineering education. *Immersive Learning Research-Practitioner (2023)*: 109-111.
- Liu, R., Luo, F., Crawford, S., **Awoyemi, I.** Elementary students' problem-solving and visual attention in a physiological computing environment: A cross-case study. Paper session submitted to the 2024 American Educational Research Association. Pittsburg, PA. (Conference Presentation).
- Moon, J., Seo, J., & **Awoyemi, I.** (Review and revision). Navigating social complexity: The synergistic use of ChatGPT-4 and epistemic network analysis for social skills assessment in autistic children. *Journal of Computer Assisted Learning (SSCI-indexed journal)*.
- Awoyemi, I.D.** (2018). Assessment of awareness, self-efficacy, and utilization of mathematics software applications for developing mathematics instructions among lecturers of tertiary institutions in Niger, Nigeria. (Completed Master Thesis)
- Samaila, D., **Awoyemi, I. D.**, Gwandu, Z. L., Isah, S., & Murtala, A. (2024). Effect of parental socio-economic background on secondary school students career choice in kebbi state, nigeria. *International Journal of Research and Innovation in Social Science*, 8(3), 370-385.
- Falode, O.C.; Ilufoye, T. O.; **Awoyemi, I. D.** & Usman, Z.N. (2018). lecturers' awareness and readiness towards the adoption of open educational resources for teaching in tertiary institutions in Niger State, Nigeria. *International Journal of Education and Educational Research*, 1(2), 01-15
- Falode, O.C.; **Awoyemi, I. D.**; Ilufoye, T. O. & Usman, Z.N. (2018). mathematics lecturers' awareness and utilization of mathematics software applications for developing Mathematics instruction in tertiary institutions in Niger State, Nigeria. *Al-Himah Journal of Education*, 2(2), 125-140
- Falode, O.C.; Gambari, A.I.; Shittu, T.; Gimba, R.W.; Falode, M.E. & **Awoyemi, I.D.** (2015). Effectiveness of virtual classroom in teaching and learning of senior secondary school mathematics concepts in minna. *Indo-African Journal of Educational Research*, 3(4), 01-04
- Falode, O.C.; Usman, Z.N.; Ilufoye, T. O. & **Awoyemi, I. D.** (2019). Education lecturers' perception towards massive open online courses. *American Journal of Social Research*, 1:10
- Awoyemi, I.D.** (2014). development and computer experts' evaluation of virtual classrooms on selected Nigerian senior secondary school mathematics concepts. (Completed Undergraduate Research)

Major Conferences Attended

- 101st Convention of Association of Educational and Communication Technology (AECT 2024). Kansas City, MO, United States. Paper and Poster Presentation. 2024
- The Southern Regional Council on Educational Administration (SRCEA) 2024
- Alabama Educational Technology Conference 2024

- 16th Annual Southeastern Universities Graduate Research Symposium 2024
- 55th ACM Technical Symposium on Computer Science Education 2024
- America Educational Research Association (AERA). Paper Presentation 2024
- 100th Convention of Association of Educational and Communication Technology (AECT 2023). Orlando, FL, United States. Poster Presentation. 2023
- 9th International Conference of the Immersive Learning Research Network (iLRN2023), in Virtual Campus powered by Virbela. Poster Presentation. 2023
- 1st National Conference Organized by College of Education, Veritas University, Abuja 2018
- International Conference Organized by the School of Science Education and Technology Education at Federal University of Technology, Minna. Paper Presentation 2016

Workshop Attended

- Articulate: Storyline 360 2023
- JumpStart Instructional Design Workshop 2023
- Stress and Time management 2023
- Innovative Teaching in the 21st Century 2021

Award

- AECT Addie Kinsinger Leadership Development Internship Award 2024
- Travel Grant (\$552) 2024
- Graduate School Research Award (\$1000) 2024
- College of Education Research Assistant Award (\$4500) 2024
- Tide Together Mentorship Graduate Award (\$200) 2024
- AECT Presidential Presentation 2024
- Graduate Ambassador Award (\$100) 2024
- William W Taube Doctoral Scholarship (\$1000) 2024
- College of Education Research Assistant Award (\$6800) 2023
- Graduate School Research Award (\$1000) 2023
- Outstanding Practitioner Paper Award (2023). Immersive Learning Research Network Conference (iLRN) 2023
- AECT Convention Grant 2023
- Best student in Mathematics Education 2023

Professional Affiliations

- Association for Education Communications and Technology (AECT)
- Immersive Learning Research Network (ILRN)
- Association of Computing Machinery (ACM)
- Nigerian Institute of Management

- Teachers Registration Council of Nigeria (TRCN)

Certification

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| • How to Design and Deliver Training Programs | 2023 |
| • Articulate Storyline Essential Training | 2023 |
| • Instructional Design: Working with SMEs | 2023 |
| • Foundations of Learning Management Systems (LMS) | 2023 |
| • Instructional Design: Needs Analysis | 2023 |
| • Proficiency Certificate in Project Management | 2016 |
| • Proficiency Certificate in Data Processing | 201 |

Reviewer

Reviewer for:

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| • The Journal of Computer-Assisted Learning | 2023 |
| • Special Interest Group on Computer Science Education (SIGCSE) | 2023, 2024 |
| • Association of Educational and Communication Technology. | 2023, 2024 |

Service and Volunteer

Mentoring

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| • Als Pals Mentorship Program | January 2024-April 2024 |
| • Reading Allies | January 2024-April 2024 |
| • Graduate Peer Mentoring, Tide Together Mentoring Program | August 2023-May 2024 |

Journal Article and Conference Reviews

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| • 100th Convention of Association of Educational and Communication Technology (AECT 2023). Orlando, FL, United States. | 2023 |
| • The Journal of Computer-Assisted Learning | 2023 |
| • Special Interest Group on Computer Science Education (SIGCSE) | 2023 |

Community/Outreach

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| • Graduate School Ambassador, The University of Alabama, | 2023-present |
| • Volunteered at UA Get on Board Day. | January 2024 |
| • Volunteered in graduate school programs such as GROW and other graduate events. | |
| • Volunteered at the AECT convention. | October 2023 |
| • Volunteered with Engage Alabama at Camden. | February 2023 |
| • Delivered a seminar to new graduate students during the graduate student orientation event. | August 2023 |
| • Member of the Welfare Committee of the Africa Student Association. | 2023 - Present |
| • Volunteered with Tuscaloosa International Friends, aiding new international students. | |
| • Joined the team of Tuscaloosa City School District to provide professional development programs for Skyland Elementary teachers. | 2023, 2024. |
| • Served as the media specialist for Deeper Life Campus Fellowship on campus. | 2023- Present |

Professional References Information

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