CURRICULUM VITAE

Clement Abai

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EDUCATION

Doctor of Philosophy, Learning, Design, & Technology, May 2024*
Oklahoma State University, Stillwater, OK

Master of Science, Educational Technology, May 2018
Oklahoma State University, Stillwater, OK

Bachelor of Arts, Information Technology, May 2004
Tulane University, New Orleans, LA

Dissertation: The Impact of Design-Based Process on Engagement and Participation in Virtual Reality Learning Spaces.

TEACHING EXPERIENCE

The Oklahoma State University
Volunteer Educator, Family Resource Center (spring 2017, fall 2018)
Taught a robotics hybrid course to 12 students (5th – 7th graders), based on LEGO MINDSTORMS curriculum.

DISCIPLINED INQUIRY

1. **PUBLICATIONS**

Peer-Reviewed Journal Articles
Asino, T. I., Colston, N. M., Ibukun, A., & Abai, C. (2022). The Virtual Citizen Science Expo Hall: A Case Study of a Design-Based Project for Sustainability Education. *Sustainability*, *14*(8), 4671.

Non-Refereed Journal Articles
Publisher, C. J. (2023, May 22). No Longer a Dry Topic. *Cowboy Journal*, *25*(2), 50-53.

2. **PAPERS/PRESENTATIONS AT PROFESSIONAL MEETINGS**

Peer Reviewed Presentation

Abai, C., Ibukun, A., Asino, T., & Colston, N. (2023, February). *2023 Oklahoma Association for Environmental Education* Expo. Oklahoma City, Oklahoma.

Abai, C., Ibukun, A., Asino, T. I., & Colston, N. (2022, October). *Immersive Rooms: How to Create Interactive Virtual Learning Spaces.* 2022 AECT International Convention. Las Vegas, Nevada.

Asino, T. I., Ibukun, A., Do, T., Abai, C., Adewumi, O., Kushimo, O., & Audu, C. (2022, October). *Keeping Active and Participatory Learning Spaces Alive During COVID-19 Times.* 2022 AECT International Convention. Las Vegas, Nevada.

Colston, N., Ibukun, A., Abai, C., & Asino, T. I. (2022, June). *"Make It Rain" Gauge: Designing an Augmented Reality (AR) Display to Recruit Drought Monitors.* Universities Council on Water Resources / National Institutes for Water Resources, Annual Water Resources Conference. Midwest City, Oklahoma.

Abai, C., Ibukun, A., Asino, T. I., & Colston, N. (2022, June). *Connecting Citizens and Scientists in a Virtual World: Using Emerging Technologies to Broaden Opportunities for Water Education.* Universities Council on Water Resources / National Institutes for Water Resources, Annual Water Resources

Conference. Midwest City, Oklahoma.

Abai, C., Ibukun, A., Colston, N., & Asino, T. I. (2022, April). *Build a Room in the Virtual Citizen Science Expo (VCSE)*. Workshop series on "April is the Citizen Science Month" hosted by the Spotty Rain Campaign Team. Virtual Workshop.

Ibukun, A., Abai, C., Asino, T. I., & Colston, N. (2021, December). *"Make It Rain" Gauge: Designing an Augmented Reality (AR) Display to Recruit Drought Monitors*. Oklahoma Governor's Water Conference and Research Symposium (*Accepted but not presented*).

Abai, C., Ibukun, A., Asino, T. I., & Colston, N. (2021, December). *Connecting Citizens and Scientists in a Virtual World: Using Emerging Technologies to Broaden Opportunities for Water Education*. Oklahoma Governor's Water Conference and Research Symposium *(Accepted but not presented)*.

Ibukun, A., Abai, C., Audu, C., Chaivisit, S., & Asino, T. I. (2021, November). *Transforming an Emerging Technologies and Creativity Research Lab to a Virtual and Interactive Environment using Mozilla Hubs: The Challenges and Lesson Learned*. AECT International Convention. Chicago, Illinois.

Ibukun, A., Do, T., Abai, C., Audu, C., & Adewumi, O. (2021, November). *Global Perspectives in Online & Blended Environments: Transitioning from Traditional Classrooms to Virtual Platforms*. 2021 AECT International Convention. Chicago, Illinois.

Hargis, B., Abai, C., Strange, F., & Thompson, P. (2021, November). *Engaging Learners with AR/VR in a Blended Design Based Learning Environment*. 2021 AECT International Convention. Chicago, Illinois.

Stanfield, H., Stanfield, S., Colston, N., Asino, T. I., Ibukun, A., & Abai, C. (2021, October). *Backyard Explorers: Citizen Scientists in Training*. The Association for Rural & Small Libraries. Reno-Sparks, Nevada.

Abai, C., Ibukun, A., Asino, T. I., & Colston, N. (2021, May). *Designing a Virtual Citizen Science Fair through the use of Augmented Reality and Virtual Reality*. Citizen Science Association. Virtual CitSci Conference.

Ibukun, A., Abai, C., Asino, T. I., & Colston, N. (2021, May). *Fostering Community Engagement in Citizen Science through Augmented Reality Rain Gauge Application (ARRGA)*. Citizen Science Association. Virtual CitSci Conference.

Abai, C., Ibukun, A., Asino, T. I., & Colston, N. (2020, April). *Building Data and Digital Competencies through the Spotty Rain Campaign Augmented Reality App*. Coalition for Advancing Digital Research & Education. Virtual Conference.

Colston, N., Ibukun, A., Asino, T., & Abai, C. (2020, February). *Precipitation and Environmental Condition Monitoring: Connecting Volunteers, Technology, and Natural Resource Managers*. Oklahoma Natural Resource Council Conference. Norman, Oklahoma.

SCHOLARSHIPTS/AWARDS

2021 - 2022 Oklahoma State University, School of Educational Foundations, Leadership and Aviation (SEFLA) Graduate Student Travel Grant Award

SKILLS

Design: *Research a problem, design & implement interventions, evaluate & reflect on the design*
Research: *Literature review, document analysis, focus group facilitation, survey design, & interviews*
Data Analysis Software: *SPSS, NVivo*
Extended Reality (XR) platforms: *Mozilla Hubs, ZapWorks Studio, Meta Sparks Studio, Jig Space*
Design programs experience: *Canva, Adobe Express, Photoshop, Illustrator, Flash*
Screen capture software: *Camtasia, Captivate, Jing*
Programming experiences: *HTML, CSS, TypeScript, JavaScript, Visual Basic, SQL, MySQL*
Course development experiences: *Articulate, Canvas, Moodle, Google Suite, & Blackboard LMS*
CMS: *WordPress, Joomla, Drupal, Google Sites*
Microsoft Office Products: *Word, Excel, PowerPoint, Access, Outlook*
Web-based cloud tools (Web 2.0): *Google Suite, Microsoft 365, Dropbox*

SERVICE

Professional Organizations
Association for Education Communications and Technology (AECT)
Conference Proposal Reviewer, Chicago, 2021

Colleges and Universities
Oklahoma State University Graduate Student Advisory Council Representative in the College of Education, and Human Sciences (CEHS) Diversity, Equity, and Inclusion Committee
President, Educational Media & Technology Student Association
Meridian Technology Center Business and Education Council Member

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

Association for Educational Communications and Technology (AECT), 2001 – present
Phi Beta Delta Honour Society 2022 - Present

OTHER PROFESSIONAL EXPERIENCES

Graduate Research Assistant, Research and Learning Services
The Oklahoma State University, Stillwater, OK, USA
August 2023 – Present
Designing and implementing instructions, assessment projects and instruments, collecting and analyzing data, creating reports to inform instruction improvements, participate in meetings and training sessions, and providing support for other projects.

Graduate Research Associate, Emerging Technologies & Creativity Research Lab
The Oklahoma State University, Stillwater, OK, USA
January 2000 – June 2023
Design and develop a virtual reality learning environment called the Virtual Citizen Science Expo (VCSE) for the Spotty Rain Campaign Project, a project funded by the National Science Foundation (NSF) that focuses on the design, development, and evaluation of informal science education (ISE) programs and educational media for use in rural libraries in drought prone areas of the Great Plains.