Opeyemi Peter Ojajuni, PhD

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Baton Rouge, LA 70817, USA

SUMMARY

Research-to-Product Bridge with 5+ years turning research into engineering impact, driving 0→1 innovation and scaling AI/ML solutions. I specialize in turning novel ideas in AI, XR, and cognitive science into deployable, scalable solutions by seamlessly connecting research, product, and engineering disciplines. Fluent in the languages of science (algorithms, study design), product (user needs, strategy), and engineering (APIs, pipelines, MLOps), I close the research-to-production gap and drive measurable impact. AWS and IBM AI Certified with proven experience leading cross-functional teams, guiding 0→1 innovation, and aligning usability, ethics, and scalability. I thrive in fast-paced, agile environments, collaborating across disciplines to accelerate innovation and consistently translate advanced research into products that scale.

SKILLS

- **Programming Languages:** Python, R, SQL.
- **IDEs**: Jupyter Notebook, VS Code, PyCharm, RStudio.
- **Research**: Experimental Design, Usability Human Computer Interaction Research, Survey Validation, Applied AI/ML Research, Multimodal Data Analysis, Time-Series Forecasting, A/B Testing, T-Testing, Educational & Workforce Analytics, Mixed-Methods Studies, 0-1 Product Research, Usability Testing, Ethnography, Iterative Design Validation, Developer Workflow Analysis, Journey Mapping, Concept Testing, Correlation Analysis, Thematic analysis.
- **AI/ML Frameworks:** Predictive modeling, Supervised ML (RF, XGBoost, SVM), Generative AI, learning analytics, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, CNN, LLM, BERT/GPT fine-tuning, Feature engineering Hyperparameter tuning, Bayesian Optimization, Keras, OpenAI APIs, Hugging Face Transformers.
- **Data Science & Engineering:** ETL design, Data Wrangling & Analysis, Data transformation, Statistical modeling and inference, Apache Spark, Hadoop, PySpark, Apache Kafka, Apache Airflow, BigQuery.
- **Databases:** PostgreSQL, MySQL, MongoDB.
- **Data Visualization**: Tableau, AWS QuickSight, Plotly, Matplotlib, Seaborn, Power BI.
- **Cloud Platforms & Deployment**: AWS (SageMaker, Glue, ECS, Fargate, CloudWatch, CodePipeline, BedRock), Azure ML, Azure, Kubernetes Service (AKS), GCP, Streamlit, CI/CD pipeline design, Docker, Kubernetes, Terraform, Watson Studio, AutoAI.
- **Project Management**: Git, GitHub, Agile Scrum, JIRA, Figma, UserTesting, Qualtrics, Optimizely, Miro, Lucidchart.
- **Network Infrastructure & Cybersecurity:** Network protocols and configuration (TCP/IP, DNS, DHCP, VLANs, NAT), Secure architecture design (Zero Trust, IAM, VPN), Threat modeling, incident response, intrusion detection, Wireshark, Nmap, SolarWinds, AWS IAM, Cisco ASA, OpenVPN, Snort.

EXPERIENCE

- **Southern University and A & M College** *Feb 2024 - Present*
  Postdoctoral - Research Manager (Applied Science & Data Science) Baton Rouge, LA
  - Translated learning science research into AI/VR training products, deploying 10+ immersive crisis leadership modules that trained 35+ leaders and improved decision-making speed by 25%.
  - Integrated pedagogy into product design by building a GIS-to-VR digital twin pipeline (OSM/ArcGIS + Unity), supporting geospatial education and spatial reasoning research with 15% improved precision in classroom experiments.
  - Built, trained, and validated ML models including deep learning (CNN) and classical Machine Learning algorithms (SVM, XGBoost, Random Forest, KNN) on multimodal datasets (behavioral, survey, engagement), achieving 95.18% accuracy in classifying cognitive skill levels, directly informing adaptive curriculum design.
  - Led controlled experimental studies (N=80) showing 18–22% gains in algorithmic reasoning, problem-solving, and creativity, shaping VR-based curriculum design.
  - Conducted 0-to-1 product research for an AI-driven immersive training platform in the $2M edtech sector, leading 45+ interviews, competitive analysis, and journey mapping to define MVP features.
  - Led concept testing of wireframes and prototypes, integrating user feedback to refine navigation and improve engagement by 25%.
  - Collaborated with AI engineers, software developers, and product managers to translate complex ML workflows into intuitive design flows, refining prototypes and boosting engagement by 25%.
  - Designed and executed mixed-methods UX studies (45+ interviews, surveys, A/B tests, usability evaluations), generating insights that drove a 36% adoption lift.
  - Mentored 10+ junior researchers in applied UX and AI methods, establishing research frameworks that increased team impact by 50%.
  - Established success metrics (learning outcomes, retention rates) and A/B testing frameworks to guide iterative product improvements and evidence-based scalability.
  - Developed and deployed a Generative AI safety assistant using RAG on campus-specific emergency response documents and weblinks, enabling real-time, research-backed guidance for 3,000+ students, faculty, and staff.

- Fine-tuned transformer models (LoRA/QLoRA) to align with official emergency protocols and communication tone, improving policy adherence by 32% and response accuracy by 27% in simulation-based evaluations.

Amazon.com *June 2023 - Sept 2023*
Data Scientist Intern, Mechatronics and Sustainable Package team Seattle, WA
- Performed large-scale temporal and sensitivity analysis on 1M+ historical transactions and logistics using statistical and ML models, improving packaging risk detection and simulation robustness by 40%.
- Developed a data transformation and enhancement framework using custom probability density functions and empirical distribution fitting, improving the simulation of packing time and robustness to cost variability by 40% and supporting scalable risk modeling.
- Benchmarked machine learning and deep learning models to forecast storage capacity needs in automated sorting systems, enabling scenario-based planning that reduced costs by 15% while maintaining temporal variability.
- Collaborated with stakeholders across engineering, operations, and product teams to align risk modeling initiatives with business and sustainability objectives, uncovering key drivers through large-scale analysis, and providing clear, actionable insights.

Southern University and A & M College *Aug 2018 - Dec 2023*
Graduate Research Assistant – (Research science & Data Science) Baton Rouge, LA
- Performed feature engineering and applied PCA to reduce 29 cognitive survey variables into 5 latent factors, uncovering actionable insights that guided curriculum design and optimized VR intervention strategies.
- Conducted UX research with 120 students, identifying 3 key engagement drivers that improved learning satisfaction by 25% and informed instructional design.
- Developed a predictive analytics app (Streamlit) with MLOps pipelines, achieving 92%
- Applied time-series forecasting (ARIMA) to education-to-workforce pipelines, producing policy-ready insights that informed scholarship allocation and recruitment strategies.
- Performed exploratory research (observations, interviews, surveys) with 400+ learners to uncover behaviors, cognitive patterns, and adoption barriers in AI/VR training.
- Conducted UX studies with 120 students (surveys, interviews), uncovering 3 engagement drivers that boosted satisfaction by 25% and enhanced AI immersive platform usability.
- Synthesized research findings into actionable insights, identifying correlations between AI/VR use and cognitive skill growth, which directly shaped product direction and informed design strategy.
- Defined MVP requirements for a predictive analytics app through 0→1 product research (workflow analysis, journey mapping, personas), aligning early prototypes with user and developer needs.

IBM Data Science Academy *Dec 2021 - Dec 2021*
Data Scientist Remote
- Built ETL pipelines to transform insurance claims data, enabling accurate fraud detection.
- Developed and trained a Random Forest model using Scikit-learn to classify fraudulent claims.
- Deployed the real-time fraud detection model on IBM Watson Machine Learning for production use.

Hacey health initiatives *Jan 2018 - Dec 2023*
AI Consultant Lagos, Nigeria
- Designed and implemented AI-driven models to optimize the planning and execution of public health programs, improving campaign targeting and resource allocation across underserved populations.
- Led the development of predictive analytics frameworks that resulted in a 25% increase in campaign efficiency and a 15% reduction in disease incidence within prioritized demographic segments.
- Built interactive, real-time dashboards using Tableau and Power BI to visualize health intervention metrics, enabling program managers to make data-informed decisions and improve response strategies by 30%.
- Collaborated with cross-functional teams—including epidemiologists, field officers, and policy advocates—to translate analytical insights into actionable public health interventions.
- Advised on the design and deployment of resilient internet infrastructure to support real-time data collection, remote health monitoring, and cloud-based AI operations in low-connectivity regions.
- Contributed to grant proposal development focused on leveraging AI for public health surveillance, disease prevention, and economic empowerment initiatives, resulting in competitive submissions to local and international funding bodies.

EKO Electricity Distribution Company *March 2018 - June 2018*
Senior Network and Security Engineer Lagos, Nigeria
- Redesigned and modernized LAN infrastructure across multiple enterprise sites, implementing high-availability architecture with redundant core switches, link aggregation, and OSPF/EIGRP dynamic routing, achieving 99.999% uptime.
- Conducted comprehensive network audits and traffic flow analysis (Wireshark, SolarWinds, NetFlow), identifying bottlenecks and single points of failure, informing a phased LAN upgrade that improved throughput by 45%.
- Deployed managed Layer 2/3 switches, VLAN segmentation, and QoS policies, optimizing bandwidth allocation for SCADA, smart meters, and ERP platforms, reducing latency for mission-critical apps by 35%.
- Integrated centralized monitoring (SNMP, PRTG, syslog), reducing mean time to resolution (MTTR) by 40% through proactive fault detection and real-time performance visibility.
- Enhanced network security by 60% through subnetted IPv4 redesign (RFC1918), minimizing lateral movement

risks and simplifying access control enforcement.
- Implemented enterprise-grade wireless security with WPA2-Enterprise, RADIUS, and 802.1X authentication, securing all endpoints with per-user credentials and dynamic encryption keys.
- Configured and enforced ACLs, IPS, and firewall policies (Palo Alto, Cisco ASA), mitigating insider threats and external attacks, improving compliance readiness across sites.
- Mentored and trained junior engineers on switching, wireless security, and segmentation, building internal expertise and reducing dependency on external vendors.

- **Staunton & Lycett** *March 2015 - Feb 2018*
  Senior Network and Security Engineer Lagos, Nigeria
  - Led a cross-functional team of 7 engineers and technicians to design and deploy a campus-wide, high-availability wireless infrastructure, delivering 99.998% uptime across academic, residential, and enterprise zones supporting 10,000+ concurrent users.
  - Conducted detailed 2.4GHz/5GHz RF surveys with Ekahau/NetSpot to optimize AP placement and reduce co-channel interference, improving Wi-Fi coverage and roaming reliability by 35%.
  - Integrated Wi-Fi backbone with fiber-optic trunks, Layer 3 switching, and VLAN segmentation, increasing throughput by 40% while ensuring isolation of faculty, student, and guest traffic.
  - Enhanced WLAN security by implementing WPA2-Enterprise with RADIUS and 802.1X authentication, reducing unauthorized access attempts by 60%.
  - Reduced infrastructure CAPEX by 50% by deploying a VMware ESXi/Hyper-V virtualized environment, consolidating workloads and enabling scalable provisioning for development and operations.
  - Implemented RBAC, firewall zoning, and automated backup policies, achieving compliance with institutional security standards and ensuring continuity for mission-critical services.
  - Designed and managed high-availability failover clusters for core authentication servers and student information systems, maintaining near-zero downtime for essential applications.
  - Collaborated with software development teams to provision secure, isolated virtual testbeds, accelerating application deployment cycles by 30%.
  - Co-developed a scalable digital ecosystem, integrating LMS and student/faculty portals, driving 40% improvement in adoption of blended learning systems.

EDUCATION

- **Southern University and A & M College, USA** *Aug 2018 - Dec 2023*
  Ph.D. in Science and Mathematics Education (Major: Education Technology), Advisor: Dr. Albertha Lawson USA
  Ph.D. dissertation: *Exploring the impact of immersive technology on engineering students' computational thinking skills*
- **University of Surrey, UK** *Sep 2013 - Sept 2014*
  MSc in Mobile and Satellite Communication, Advisor: Dr. Fabien Heliot UK
- **Covenant University, Nigeria** *Sep 2007 - July 2012*
  B.Eng in Computer Engineering Nigeria

CERTIFICATIONS

- **Amazon Web Service (AWS) Certified AI Practitioner** *July 2025*
  Issued by Amazon Web Services (AWS) Training and Certification [LINK]
- **AWS Educate Machine Learning Foundations** *June 2025*
  Issued by Amazon Web Services Training and Certification [LINK]
- **IBM Artificial Intelligence Practitioner** *Jan 2022*
  Issued by IBM [LINK]
- **Enterprise Design Thinking Practitioner, Enterprise Design Thinking - Team Essentials for AI** *Dec 2021*
  Issued by IBM [LINK] [LINK]
- **AWS Certified Cloud Practitioner** *April 2021*
  Issued by Amazon Web Services Training and Certification [LINK]
- **Cisco Certified Network Associate Routing and Switching (CCNA Routing and Switching)** *March 2011*
  Issued by Cisco [LINK]

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Ojajuni Opeyemi (2023). **Exploring the Impact of Immersive Technology on Engineering Students' Computational Thinking (CT) Skills**. Copyright No. X0009400870. Registration Date: 2024-05-13, Publication Date: 2024-05-10.

PUBLICATION

C=CONFERENCE PAPER, J=Journal

[J.1] **Ojajuni Opeyemi**, Ismail, Y., & Lawson, A. (2020**)** **Distributed Denial-of-Service Attack Detection and Mitigation for the Internet of Things**. *International Journal of Technology Diffusion (IJTD), 11(2), 18-32.*

[C.1] **Ojajuni Opeyemi,** Ismail Y., Warren B., Dawan F. & Lawson A. (2025). BOARD# 238: **Exploring the impact of Knowledge Acquisition in a CAVE (Cave Automatic Virtual Environment) on engineering students computational thinking skill levels.** *In 2025 ASEE Annual Conference & Exposition.*

[C.2] **Ojajuni Opeyemi,** Ismail Y., Warren B., Dawan F. & Lawson A. (2025). **Predicting Computational Thinking (CT) skill level among engineering students using Machine Learning.** *In R. Jake Cohen (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 46-54). Orlando, FL, USA:*

Association for the Advancement of Computing in Education (AACE).

[C.3] Olokunde, T., Mettu, S.D.R., Adigun, D., Ojieh, A., Warren, R., **Ojajuni Opeyemi**, Pendyala, N.R., Martin, J., Street, D. & Warren, B. (2025). **Digital equity in STEM education through the lens of a mobile immersive technology truck.** *In R. Jake Cohen (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 2858-2863). Orlando, FL, USA: Association for the Advancement of Computing in Education (AACE).*

[C.4] Byrareddy S., **Ojajuni Opeyemi**, Balaji J., Dunyo L., Tan B., Olokunde T., Mettu S.D.R., Prinyawiwatkul R., Warren B. & Street D. (2025). **Improving Visualization in STEM Using Virtual Reality Content and Reality Capture Technology**. *In R. Jake Cohen (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 1703-1708). Orlando, FL, USA: Association for the Advancement of Computing in Education (AACE).*

[C.5] Ojieh A., **Ojajuni Opeyemi,** Warren B., Street D., Lawson A. & Stubblefield M. (2025). **A Systematic Review on the Application of Virtual Reality in Public Health Training**. *In R. Jake Cohen (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 1752-1762). Orlando, FL, USA: Association for the Advancement of Computing in Education (AACE).*

[C.6] Pendyala N.R., **Ojajuni Opeyemi**, Olokunde T., Warren B., & Street D. (2025). **Transforming STEM Education Through Digital Twins.** *In R. Jake Cohen (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 1508-1515). Orlando, FL, USA: Association for the Advancement of Computing in Education (AACE).*

[C.7] Balaji J., Dunyo L., **Ojajuni Opeyemi,** Byrareddy S., Tan B., Olokunde T., Warren B. & Street D. (2025). **Anxiety-Aware Virtual Reality Platform for Managing Stress in STEM Students.** *In R. Jake Cohen (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 1698-1702). Orlando, FL, USA: Association for the Advancement of Computing in Education (AACE).*

[C.8] **Ojajuni Opeyemi,** Dawan F., Ismail Y., & Lawson A. H. (2024, June). **Board 296: Immersive Engineering Learning and Workforce Development: Pushing the Boundaries of Knowledge Acquisition in a CAVE**. *In 2024 ASEE Annual Conference & Exposition.*

[C.9] Byrareddy S.N., Mettu S., Ojieh A., Balaji J., Warren B., Warren R., Olokunde T., **Ojajuni Opeyemi**, Street D., Stubblefield M. and Samuel M., (2024). **Developing Virtual Reality Content Using Reality Capture Technology.** *The proceedings are licensed under a Creative Commons Attribution-NonCommercialShareAlike 4.0 International License, permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited., 126-138.*

[C.10] Samuel M., Mensah P., Warren B., Warren R., Stubblefield M., Street D., Olokunde T., **Ojajuni Opeyemi**, Rapolu D., Mettu S. and Balaji J., (2024). **Designing Virtual Reality Learning Content Using the Unity Software Platform: A Reverse Engineering Approach.** *The proceedings are licensed under a Creative Commons Attribution-NonCommercialShareAlike 4.0 International License, permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited., 114-118.*

[C.11] Mettu S.D.R., Ismail Y., Lawson A., Young L., Olokunde T., **Ojajuni Opeyemi**, Warren R., Ojieh A., Balaji J., Nallaguttahallibyrareddy S. and Mussie S., (2024). **Designing Enhancing Engineering Students Confidence with Industrial Skill Acquisition in through Virtual Reality: A Confidence-Based Learning Approach.** *The proceedings are licensed under a Creative Commons Attribution-NonCommercialShareAlike 4.0 International License, permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited., 139-148.*

[C.12] Olokunde T., Warren B., Warren R., **Ojajuni Opeyemi**, Pendyal N., Mettu S., Balaji J., Martin J., Samuel M., Rapolu D. and Stubblefield, M., (2024). **Infusing virtual reality into middle school science curriculum.** *The proceedings are licensed under a Creative Commons Attribution-NonCommercialShareAlike 4.0 International License, permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited., 26-32.*

[C.13] Ojieh A., Mettu S., Balaji J., Warren B., Warren R., Olokunde T., **Ojajuni Opeyemi**, Street D., Stubblefield M., Samuel M. and Rapolu D., (2024). **Virtual Reality as a Teaching Aid for Medical Professionals: A Transformative Approach to Healthcare Training.** *The proceedings are licensed under a Creative Commons Attribution-NonCommercialShareAlike 4.0 International License, permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited., 1-12.*

[C.14] **Ojajuni Opeyemi**, Ismail Y., Whitmore S. & Lawson A. (2023). **Cloud-based STEM Student academic success prediction Web application**. *In E. Langran, P. Christensen & J. Sanson (Eds.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 923-928). New Orleans, LA, United States: Association for the Advancement of Computing in Education (AACE).*

[C.15] **Ojajuni Opeyemi**, Ismail Y., Mellieon-Williams F., & Lawson A. (2023)**. Investigating student and faculty attitudes and perceptions towards using Virtual Reality (VR) to improve Computational Thinking (CT) levels in Cybersecurity-Additive Manufacturing (CAM) training**. *In E. Langran, P. Christensen & J. Sanson (Eds.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 75-84). New Orleans, LA, United States: Association for the Advancement of Computing in Education (AACE).*

[C.16] **Ojajuni Opeyemi**, Ismail Y., Mellieon-Williams F., & Lawson A. (2023). **Factors contributing to student experience in the Cave Automatic Virtual Environment (CAVE) for Computational Thinking (CT) development.** *In E. Langran, P. Christensen & J. Sanson (Eds.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 65-74). New Orleans, LA, United States: Association for the Advancement of Computing in Education (AACE).*

[C.17] Whitmore, S. R., & **Ojajuni Opeyemi**, (2023). **Are Construction Management Education Programs Producing**

Sufficient Numbers of Minority Graduates to Meet Demand? *In 2023 ASEE Annual Conference & Exposition.*

[C.18] **Ojajuni Opeyemi**, Foluso Ayeni, Olagunju Akodu, Femi Ekanoye, Samson Adewole, Timothy Ayo, Sanjay Misra & Victor Mbarika (2021). **Predicting Student Academic Performance Using Machine Learning**. *In Gervasi, O., et al. Computational Science and Its Applications – ICCSA 2021. ICCSA 2021. Lecture Notes in Computer Science (), vol 12957. Springer, Cham.*

PRESENTATION

O= ORAL, P= POSTER

[P.1] **Ojajuni Opeyemi,** Ismail Y., Warren B., Dawan F. & Lawson A. (2025). BOARD# 238: **Exploring the impact of Knowledge Acquisition in a CAVE (Cave Automatic Virtual Environment) on engineering students computational thinking skill levels.** *Presented at 2025 ASEE Annual Conference & Exposition, Montreal, Quebec, Canada, June 22 - 25, 2025.*

[O.1] **Ojajuni Opeyemi,** Ismail Y., Warren B., Dawan F. & Lawson A. (2025). **Predicting Computational Thinking (CT) skill level among engineering students using Machine Learning.** *Presented at 2025 Society for Information Technology & Teacher Education International Conference, Orlando, Florida, United States.*

[P.2] **Ojajuni Opeyemi,** Dawan F., Ismail Y., & Lawson A. H. (2024, June). **Board 296: Immersive Engineering Learning and Workforce Development: Pushing the Boundaries of Knowledge Acquisition in a CAVE.** *Presented at 2024 ASEE Annual Conference & Exposition, Oregon, Portland.*

[O.2] **Ojajuni Opeyemi**, Ismail Y., Whitmore S. & Lawson A. (2023). **Cloud-based STEM Student academic success prediction Web application**. *Presented at 2023 Society for Information Technology & Teacher Education International Conference, New Orleans, LA, United States.*

[O.3] **Ojajuni Opeyemi**, Ismail Y., Mellieon-Williams F., & Lawson A. (2023)**. Investigating student and faculty attitudes and perceptions towards using Virtual Reality (VR) to improve Computational Thinking (CT) levels in Cybersecurity-Additive Manufacturing (CAM) training**. *Presented at 2023 Society for Information Technology & Teacher Education International Conference, New Orleans, LA, United States.*

[O.4] **Ojajuni Opeyemi**, Ismail Y., Mellieon-Williams F., & Lawson A. (2023). **Factors contributing to student experience in the Cave Automatic Virtual Environment (CAVE) for Computational Thinking (CT) development.** *Presented at 2023 Society for Information Technology & Teacher Education International Conference, New Orleans, LA, United States.*

[O.5] **Ojajuni Opeyemi**, Ismail, Y., & Lawson, A. (2019**) Distributed Denial-of-Service Attack Detection and Mitigation for the Internet of Things**. *Presented at 76th Joint Meeting of Beta Kappa Chi and National Institute of Science, Atlanta, GA, United States.*

[P.3] **Ojajuni Opeyemi**, Ismail, Y., & Lawson, A. (2019**) Distributed Denial-of-Service Attack Detection and Mitigation for the Internet of Things**. *Presented at ASME International Mechanical Engineering Education Leadership Summit, New Orleans, New Orleans, LA, United States.*

[O.6] **Ojajuni Opeyemi**, Ismail, Y., & Lawson, A. (2019**) Distributed Denial-of-Service Attack Detection and Mitigation for the Internet of Things**. *Presented at 2019 West Texas A & M University Student Research Conference, Canyon Texas, United States.*

[O.7] **Ojajuni Opeyemi**, Ismail, Y., & Lawson, A. (2019**) Distributed Denial-of-Service Attack Detection and Mitigation for the Internet of Things**. *Presented at 93rd Annual Meeting of the Louisiana Academy of Sciences, Baton Rouge, LA, United States.*

REVIEWED PAPERS

American Society for Engineering Education (ASEE) Annual Conference & Exposition

2024

1. WIP: Factors in BIPOC student changes in academic standing.
2. The Role of Feedback within Scrum for Engineering Department Operation.
3. Designing this space for who? Development of personas to encourage the creation of an inclusive makerspace.
4. K-12 Teachers and Data Science: Learning Interdiscplinary Science through Research Experiences.

Association for the Advancement of Computing in Education: Society for Information Technology & Teacher Education International Conference (SITE)

2025

1. Navigating Future Roles and Professional Identity Shift of Academics at a South African University: Perceived Attitudes towards Emerging Technologies.
2. Applied Framework for Emotion-Oriented Group Perception Tools: A Shared Regulatory Perspective.
3. Empowering teachers in robot-assisted language learning: A collaborative professional development approach.
4. Superpower to Success: Leading People, Teams, and Yourself in Today's Landscape.
5. Using Digital Curation as a Trigger to Inspire Agency in Higher Education in Instructional Design.
6. Looking Back and Planning Forward: Exploring Digital Writing Integration in Elementary Teacher Education.
7. Incorporating Gamification Elements in Interactive Programming Workshops.
8. 360-Degree Video and VR Technology to Enhance Pre-service Teachers' Reflection.
9. Enhancing Teacher Candidates' Preparedness and Confidence through Virtual Simulations in EL Classrooms.
10. Undergraduate Students' Experiences of Using AI For Completing Class Assignments.
11. An Examination of E-Story Implementation in a Bilingual E-Library Project Serving Hispanic Families.

2024

1. A Comparative Study of Teachers' Technology Self-Efficacy Between the US and South Korea.
2. Advancing Education with Large Language Models: How Far Have We Come? --- An example of Elementary Mathematics Homework Design Based on the SOLO Theoretical Framework.
3. How Might Teacher Educators Use a Telepresence Robot for Preservice Teacher Supervision?
4. Mobile Health (mHealth) Adoption Readiness in Developing Countries: Challenges, Opportunities and Strategies
5. Get the GIST: Exploring Self-regulation and Cognitive Strategy Use in Geographic Information Science & Technology (GIST) in a Hybrid Learning Program for Autistic Students.
6. The Impact of backup.
7. Virtual Reality to Train Teachers in Early-Onset Eating Disorders Detection.

AFFILIATION

- Member, Institute of Electrical and Electronics Engineers (IEEE).
- Member, Association of Computing Machinery (ACM).
- Member, National Institute of Science (NIS) Member.
- Louisiana Academy of Science (LAS).
- Collegiate Member, National Society of Black Engineers (NSBE).
- The Society for Information Technology and Teacher Education (SITE).

MAJOR ACHIEVEMENT

- Certificate of Commendation from office of the Mayor-President City of Baton Rouge, for outstanding leadership, dedicated service, and unwavering commitment to excellence as a member of Graduate Student Association at Southern University and A&M College. April 12, 2025
- Recognition of dedicated service and outstanding contributions support of the Graduate Student Association and the Graduate Student Body during the 2024-2025 academic year, April 12, 2025
- Runner up - Best oral graduate presentation at 78th Joint Meeting of BKX and NIS, Beta Kappa Chi and National Institute of Science, Charlotte, North Carolina. April 1 2023
- Winner - 2020 DXC/SUBR Cloud Computing Virtual Camp Team Project Competition.
- Runner up - Best oral graduate presentation at 76th Joint Meeting of BKX and NIS, Beta Kappa Chi and National Institute of Science, March 28-30, 2019 - Atlanta, GA.