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Google Scholar Profile: <https://scholar.google.co.za/citations?user=7amO9kAAAAAJ&hl=en>

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Scopus Profile: <https://www.scopus.com/authid/detail.uri?authorId=57202873480>

Education

Ph.D., Civil Engineering, University of Johannesburg, South Africa; 2018 – 2020

Masters., Construction Management, University of Johannesburg, South Africa; 2016 – 2017

B.Eng., Civil Engineering, Nnamdi Azikiwe University, Nigeria; 2005 – 2010

Background and Experience Summary

- Conducting research in the area of sustainable construction and construction digitalization.
- Academic experience involving skills development and graduate employability.
- Curriculum development to enhance the learning outcomes of engineering students.
- Broad understanding of conducting both quantitative, qualitative and mixed-method research.

Academic Appointments

- Post-Doctoral Research Associate with the Institute for Resilient Infrastructure Systems, College of Engineering, University of Georgia. Responsibilities include co-developing and delivering curriculum modules on nature-based solutions and natural infrastructure, organizing and coordinating the group's training and workforce development efforts and planning and facilitating meetings and coordinating across research groups, 2022 – Present.
- Assistant Instructor for ENGR 8990 - Nature-based Infrastructure Engineering and Design (Spring 2023), College of Engineering, University of Georgia – Present.
- Assistant Instructor for ENGR 8990 CRN 58680 - Field Experiences in Natural Infrastructure (Fall, 2023), College of Engineering, University of Georgia – Present.
- Two-year Post-Doctoral Research Fellowship, University of Johannesburg. Research responsibilities involved engaging with quantitative, qualitative and mixed-method approaches in the engineering education discourse to improve graduate employability and to ensure industry readiness after graduation, 2020 – 2022.
- Research supervisor, CIDB Centre of Excellence, Faculty of Engineering and the Built Environment at the University of Johannesburg. Responsibilities include supervising undergraduate and graduate students in their respective research work, 2018 – Date.
- Part-time Lecturer, Department of Civil Engineering Technology (DCET), Doornfontein Campus, University of Johannesburg. Responsibilities include teaching undergraduate courses in *Project Management*, *Research Methodology*, *Water Reticulation Design* and *Sustainable Construction*, from February 2019 – June 2022.
- Part-time Lecturer, Department of Construction and Management & Quantity Surveying, Auckland Park Campus, University of Johannesburg. Responsibilities include teaching *Project Planning* and *Scheduling* and *Resource Management*, 2018 – June 2022.
- Tutor, Department of Civil Engineering Technology (DCET), Doornfontein Campus, University of Johannesburg, Johannesburg, South Africa, February – June 2018
- Teaching Assistant, Civil Engineering Department, Nnamdi Azikiwe University, March 2009 – February 2010.

Other Positions and Employment

- Junior Civil Engineer, Federal University of Technology, Minna. Responsible for coordinating multi-

disciplinary project design teams to achieve quality and on-time delivery of design documents. Taught evening undergraduate courses in project management at Federal University of Technology, Minna, Civil Engineering Department, 2013 – January 2016.

- Junior Civil Engineer, Ministry of Works and Housing, Minna. Responsible for performing regular site visits, inspections, audits and surveys as well as overseeing construction works being completed on-site, 2011 – 2012.
- Civil Engineering Assistant, Physical Planning and Development Unit, Nnamdi Azikiwe University. (6 months Industrial Training) March 2009 – August 2009.

Scholarly and Professional Activities

Publications

(*) – *Engineering Education*

Book (Peer-Reviewed)

1. *Aliu, J., Aigbavboa, C., and Thwala, W., (2021). A 21st Century Employability Skills Improvement Framework for the Construction Industry. *Routledge*. DOI: <https://doi.org/10.1201/9781003137504>

Book chapters (Peer-Reviewed)

2. Aigbavboa, C., Aliu, J. and Thwala, W.D., 2023. A Review of the Evolution of Project Management in South Africa. *Building a Body of Knowledge in Project Management in Developing Countries*, pp.792-819. https://doi.org/10.1142/9789811224720_0024
3. Ebekozi, A., Aigbavboa, C., Aliu, J., Thwala, W.D. and Emuchay, F.E., 2023, April. Improving Safety on Building Project Sites: The Role of Sensor-Based Technology. In *Towards a Sustainable Construction Industry: The Role of Innovation and Digitalization: Proceedings of 12th Construction Industry Development Board (CIDB) Postgraduate Research Conference* (pp. 23-32). Cham: Springer International Publishing. https://link.springer.com/chapter/10.1007/978-3-031-22434-8_3
4. Adekunle, S.A., Ikuabe, M., Aliu, J., Ogunbayo, B., Aigbavboa, C., Oyewo, W.O. and Ejohwomu, O., 2023. Understanding Safety of Construction Sites: Construction Site Workers' Experience. In *Emerging Debates in the Construction Industry* (pp. 292-306). Routledge.
5. *Aliu, J. and Aigbavboa, C., 2022. Examining Pedagogical Approaches in Developing Employability Skills in the Wake of the COVID-19 Pandemic. In *Smart and Sustainable Technology for Resilient Cities and Communities* (pp. 11-28). Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-16-9101-0_2
6. *Aliu, J. and Aigbavboa, C., 2022. Relating Work-Integrated Learning to Employability Skills in the Post-COVID-19 Era. In *Smart and Sustainable Technology for Resilient Cities and Communities* (pp. 29-46). Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-16-9101-0_3
7. *Okafor, C., Aigbavboa, C., Aliu, J. and Tanga, O., 2022, October. The Integration of 4IR Technologies in Architectural Education for Upskilling the Workforce in the Nigerian Built Environment. In *International Conference on Computing in Civil and Building Engineering* (pp. 227-241). Cham: Springer Nature Switzerland. https://link.springer.com/chapter/10.1007/978-3-031-32515-1_16
8. *Aliu, J., Aigbavboa, C. and Oke, A., 2021. Examining Undergraduate Courses Relevant to the Built Environment in the 4IR Era: A Delphi Study Approach. In *Emerging Research in Sustainable Energy and Buildings for a Low-Carbon Future* (pp. 195-215). Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-15-8775-7_12
9. *Aliu, J. and Aigbavboa, C., 2021. Reviewing Problem-Solving as a Key Employability Skill for Built Environment Graduates. In *Collaboration and Integration in Construction, Engineering, Management and Technology* (pp. 399-403). Springer, Cham. <https://www.springerprofessional.de/en/reviewing-problem-solving-as-a-key-employability-skill-for-built/18703818>
10. *Aliu, J. and Aigbavboa, C., 2018, July. Upscaling construction education: the role of construction site experiential learning. In *International Conference on Applied Human Factors and Ergonomics* (pp. 472-479). Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-319-93882-0_45
11. *Aliu, J. and Aigbavboa, C., 2018, September. Introduction of construction experience to the classroom: What approaches should be adopted? In *International Symposium on Emerging Technologies for Education* (pp. 284-294). Springer, Cham. (LNCS, volume 10676). https://link.springer.com/chapter/10.1007/978-3-319-71084-6_32

Journals (Peer-Reviewed)

1. Ebekozen, A., Aigbavboa, C., Adekunle, S.A., Samsurijan, M.S., **Aliu, J.**, Arthur-Aidoo, B.M. and Amadi, G.C., 2023. Smart contract applications in the built environment: How prepared are Nigerian construction stakeholders?. *Frontiers of Engineering Management*, pp.1-12. <https://doi.org/10.1007/s42524-023-0275-z>
2. **Aliu, J.**, Oke, A.E., Abayomi, T., Aigbavboa, C. and Makanjuola, S. (2023), Exploring the critical success factors for adopting gamification in the Nigerian construction sector, *Built Environment Project and Asset Management*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/BEPAM-08-2023-0150>
3. Oke, A.E., **Aliu, J.**, Agbaje, D.H., Jamir Singh, P.S., Alade, K.T. and Samsurijan, M.S. (2023), Effective measures to bolster the deployment of indoor environmental quality (IEQ) principles in building design: a focus on quantity surveying (QS) firms in Nigeria, *Management of Environmental Quality*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/MEQ-05-2023-0138>
4. Babalola, I.H., Aigbavboa, C.O., **Aliu, J.** and Oke, A.E. (2023), Influence of emotional intelligence attributes on human resource management practices implementation in the Nigerian construction industry, *Journal of Engineering, Design and Technology*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JEDT-07-2023-0291>
5. Oke, A.E., **Aliu, J.**, Jamir Singh, P.S., Onajite, S.A., Kineber, A.F. and Samsurijan, M.S., 2023. Application of Digital Technologies Tools for Social and Sustainable Construction in a Developing Economy. *Sustainability*, 15(23), p.16378.
6. Oke, A.E., **Aliu, J.**, Oni, S.B. and Ilesanmi, O.O., 2023. The complexities of embracing mechatronics in the Nigerian construction industry. *Construction Innovation*. <https://doi.org/10.1108/CI-07-2023-0154>
7. **Aliu, J.**, Oke, A.E. and Oni, S.B., 2023. Evaluating strategies to promote mechatronics deployment in AEEO projects: a Nigerian construction practitioners' perspective. *International Journal of Construction Management*, pp.1-10. <https://doi.org/10.1080/15623599.2023.2266630>
8. Oke, A.E., **Aliu, J.**, Fadamiro, P., Leo-Olagbaye, F., Singh, P.S.J. and Samsurijan, M.S., 2023. Evaluating the drivers for the implementation of automation techniques in the Nigerian construction sector. *Built Environment Project and Asset Management*, (ahead-of-print). <https://doi.org/10.1108/BEPAM-04-2023-0085>
9. Oke, A.E., **Aliu, J.**, Mwanaumo, E.M., Odia, O.A., Kahanji, C. and Tengan, C. 2023, From awareness to action: a study of the effectiveness of environmental economic practices for sustainable construction in Nigeria, *Smart and Sustainable Built Environment*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/SASBE-03-2023-0071>
10. Oke, A.E., **Aliu, J.**, Mwanaumo, E.M.M., Abayomi, T. and Kahanji, C. 2023, Leveraging gamification to enhance productivity and employee engagement in the Nigerian construction industry, *Built Environment Project and Asset Management*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/BEPAM-04-2023-0064>
11. **Aliu, J.**, Oke, A.E., Kineber, A.F., Ebekozen, A., Aigbavboa, C.O., Alaboud, N.S. and Daoud, A.O., 2023. Towards a New Paradigm of Project Management: A Bibliometric Review. *Sustainability*, 15(13), p.9967. <https://doi.org/10.3390/su15139967>
12. Oke, A.E., **Aliu, J.**, Odia, O.A., Aigbavboa, C.O., Jamir Singh, P.S., Awuzie, B.O. and Samsurijan, M.S., 2023. A quantitative assessment of key drivers for environmental economic practices adoption for sustainable development. *Sustainable Development*. <https://doi.org/10.1002/sd.2612>
13. Oke, A.E., **Aliu, J.**, Fadamiro, P., Akanni, P., Jamir Singh, P.S. and Shaharudin Samsurijan, M., 2023. Unpacking the strategies to promote the implementation of automation techniques in the construction industry. *Construction Innovation*. <https://doi.org/10.1108/CI-12-2022-0332>
14. *Ebekozen, A., Aigbavboa, C.O., Adekunle, S.A., **Aliu, J.** and Thwala, W.D., 2023. Training needs of built environment professionals: the role of the fourth industrial revolution. *Engineering, Construction and Architectural Management*. <https://doi.org/10.1108/ECAM-03-2022-0212>
15. ***Aliu, J.** and Oke, A.E., 2023. Construction in the digital age: exploring the benefits of digital technologies. *Built Environment Project and Asset Management*. <https://doi.org/10.1108/BEPAM-11-2022-0186>
16. Oke, A.E., **Aliu, J.**, Fadamiro, P., Jamir Singh, P.S., Samsurijan, M.S. and Yahaya, M., 2023, "Robotics and automation for sustainable construction: microscoping the barriers to implementation", *Smart and Sustainable Built Environment*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/SASBE-12-2022-0275>
17. *Oke, A.E., **Aliu, J.**, Farouk Kineber, A. and Abayomi, T., 2023. Boosting employee performance through gamification: a study of the awareness and usage of game elements among construction professionals. *International Journal of Building Pathology and Adaptation*. <https://doi.org/10.1108/IJBPA-09-2022-0151>

18. Oke, A.E., **Aliu, J.** and Onajite, S.A., 2023. Barriers to the adoption of digital technologies for sustainable construction in a developing economy. *Architectural Engineering and Design Management*, pp.1-17. <https://doi.org/10.1108/IJBPA-07-2021-0098>
19. Kineber, A.F., Oke, A., **Aliu, J.**, Hamed, M.M. and Oputu, E., 2023. Exploring the adoption of cyber (digital) technology for sustainable construction: a structural equation modeling of critical success factors. *Sustainability*, 15(6), p.5043. <https://doi.org/10.3390/su15065043>
20. Oke, A.E., **Aliu, J.**, Jamir Singh, P.S., Onajite, S.A., Shaharudin Samsurijan, M. and Azura Ramli, R., 2023. Appraisal of awareness and usage of digital technologies for sustainable well-being among construction workers in a developing economy. *International Journal of Construction Management*, pp.1-9. <https://doi.org/10.1080/15623599.2023.2179628>
21. Oke, A.E., **Aliu, J.**, Fadamiro, P.O., Akanni, P.O. and Stephen, S.S., 2023. Attaining digital transformation in construction: An appraisal of the awareness and usage of automation techniques. *Journal of Building Engineering*, p.105968. <https://doi.org/10.1016/j.jobbe.2023.105968>
22. Oke, A.E., **Aliu, J.**, Tunji-Olayeni, P. and Abayomi, T., 2023. Application of gamification for sustainable construction: an evaluation of the challenges. *Construction Innovation*, (ahead-of-print). <https://doi.org/10.1108/CI-09-2022-0247>
23. *Osunsanmi, T.O., Olawumi, T.O., Smith, A., Jaradat, S., Aigbavboa, C., **Aliu, J.**, Oke, A., Ajayi, O. and Oyeyipo, O., 2023. Modelling the drivers of data science techniques for real estate professionals in the fourth industrial revolution era. *Property Management*, (ahead-of-print). <https://doi.org/10.1108/PM-05-2022-0034>
24. ***Aliu, J.**, Aghimien, D., Aigbavboa, C., Ebekozen, A., Oke, A.E., Adekunle, S.A., Akinradewo, O. and Akinshipe, O., 2022. Developing emotionally competent engineers for the ever-changing built environment. *Engineering, Construction and Architectural Management*, (ahead-of-print). <https://doi.org/10.1108/ECAM-08-2022-0806>
25. ***Aliu, J.**, Aghimien, D., Aigbavboa, C., Oke, A., Ebekozen, A. and Temidayo, O., 2022. Empirical Investigation of Discipline-Specific Skills Required for the Employability of Built Environment Graduates. *International Journal of Construction Education and Research*, pp.1-20. <https://doi.org/10.1080/15578771.2022.2159589>
26. Oke, A.E., **Aliu, J.**, Onajite, S. and Simeon, M., 2022. Success factors of digital technologies (DT) tools adoption for sustainable construction in a developing economy. *Construction Innovation*, (ahead-of-print). <https://doi.org/10.1108/CI-08-2022-0207>
27. *Ebekozen, A., Aigbavboa, C.O., **Aliu, J.**, 2022. Built environment academics for 21st-century world of teaching: stakeholders' perspective, *International Journal of Building Pathology and Adaptation* (ahead-of-print). <https://doi.org/10.1108/IJBPA-04-2022-0062>
28. Aghimien, D., Ikuabe, M., **Aliu, J.**, Aigbavboa, C., Oke, A.E. and Edwards, D.J., 2022. Empirical scrutiny of the behavioural intention of construction organisations to use unmanned aerial vehicles. *Construction Innovation*, (ahead-of-print). <https://doi.org/10.1108/CI-04-2022-0088>
29. Aghimien, D., Aigbavboa, C., Oke, A.E. and **Aliu, J.** 2022, "Delineating the people-related features required for construction digitalization", *Construction Innovation*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/CI-01-2022-0012>
30. *Ebekozen, A., Aigbavboa, C.O., **Aliu, J.** and Thwala, W.D., 2022. Generic skills of future built environment practitioners in South Africa: unexplored mechanism via students' perception. *Journal of Engineering, Design and Technology*. <https://doi.org/10.1108/JEDT-10-2021-0571>
31. ***Aliu, J.** and Aigbavboa, C.O., 2021. Key Generic Skills for Employability of Built Environment Graduates. *International Journal of Construction Management Print ISSN: 1562-3599 Online ISSN: 2331-2327*. <https://doi.org/10.1080/15623599.2021.1894633>
32. ***Aliu, J.** and Aigbavboa, C., 2021. Reviewing the trends of construction education research in the last decade: a bibliometric analysis. *International Journal of Construction Management*, pp.1-10. <https://doi.org/10.1080/15623599.2021.1985777>
33. ***Aliu, J.** and Aigbavboa, C.O., 2021. Reviewing the roles of extracurricular activities in developing employability skills: A bibliometric review. *International Journal of Construction Management Print ISSN: 1562-3599 Online ISSN: 2331-2327*. <https://doi.org/10.1080/15623599.2021.1995807>
34. ***Aliu, J.** Clinton, A. and Thwala, W.D., 2021. Driving the Fourth Industrial Revolution Initiative through University and Industry Collaborations. *Journal of Construction in Developing Countries*, 26(2), pp.211-230. http://web.usm.my/jcdc/vol26_2_2021/jcdc2021.26.2.10.pdf
35. ***Aliu, J.** and Aigbavboa, C.O., 2020. Structural determinants of graduate employability: Impact of university and industry collaborations. *Journal of Engineering Design and Technology: ISSN: 1726-0531*. DOI:

- <https://doi.org/10.1108/JEDT-05-2020-0189>.
36. Arowoia, V.A., Oke, A.E., Aigbavboa, C.O. and **Aliu, J.**, 2020. An appraisal of the adoption of Internet of Things (IoT) elements for sustainable construction. *Journal of Engineering, Design and Technology*. ISSN: 1726-0531. <https://doi.org/10.1108/JEDT-10-2019-0270>.
 37. ***Aliu, J.** and Aigbavboa, C.O., 2019. Employers' perception of employability skills among built environment graduates. *Journal of Engineering, Design and Technology*. ISSN: 1726-0531. <https://doi.org/10.1108/JEDT-06-2019-0162>.
 38. ***Aliu, J.** and Aigbavboa, C.O., 2019. *Journal of Physics: Conference Series*, Volume 1378, Part 1 Examining the Roles of Human Capital Theory. What next for the Construction Industry? <https://doi.org/10.1088/1742-6596/1378/2/022057>.

Selected Conference Papers (Peer-Reviewed)

1. *Adekunle, S.A., Aigbavboa, C., Ejohwomu, O., **Aliu, J.** and Thwala, W.D., 2022. Leaders of Tomorrow: Status and Outlook of BIM Implementation Among Young Quantity Surveyors. *Proceedings of International Structural Engineering and Construction*. https://www.research.manchester.ac.uk/portal/files/220377083/Ejohwomu_AAE_15.pdf
2. *Akinshipe, O., **Aliu, J.** and Aigbavboa, C., 2022. The Futuristic Building Industry: Updating Skills-Set Required for Digital Transformation. *Social and Occupational Ergonomics*, 65, p.38.
3. ***Aliu, J.** and Aigbavboa, C.O., 2019. Role of industry employers in fostering employability skills: a literature review. *The 10th International Structural Engineering and Construction Conference* (Chicago). ISBN 978-1-5323-5952-1.
4. ***Aliu, J.** and Aigbavboa, C.O., 2018. Equipping graduates for the future: The need for higher institutions to collaborate. *Third North American IEOM Conference* (Washington D.C). (ISSN: 2169-8767). <http://ieomsociety.org/dc2018/proceedings/> (Best track paper).
5. ***Aliu, J.** and Aigbavboa, C.O., 2018. Work experience for construction graduates: An industry perspective. *Third North American IEOM Conference* (Washington D.C). (ISSN: 2169-8767). <http://ieomsociety.org/dc2018/proceedings/>
6. M, Mbala, C, Aigbavboa, **Aliu J.**, 2018. Reviewing the Negative Impacts of Building Construction Activities on the Environment: The Case of Congo. 9th International Conference on Applied Human Factors and Ergonomics. https://link.springer.com/chapter/10.1007/978-3-319-94199-8_11
7. M, Mbala, C, Aigbavboa, **Aliu J.**, 2018. Causes of Delay in Various Construction Projects: A Literature Review. 9th International Conference on Applied Human Factors and Ergonomics. https://link.springer.com/chapter/10.1007/978-3-319-94199-8_47

Submitted Publications (Under review)

1. ***Aliu, J.**, Aghimien O.A., Aigbavboa, C.O., Oke, A.E., and Andrew E., 2023. An Employability Skills Model for Built Environment Graduates: A PLS-SEM Analysis in *International Journal of Construction Education and Research* (In minor revisions)
2. Oke, A.E., **Aliu, J.**, Timilehin A., and Seyi S. S 2023. An Investigation of the Potential Benefits of Gamification in the Nigerian Construction Industry in a Book of *Applications of Immersive Technology in Architecture, Engineering and Construction*
3. **Aliu, J.**, Oke, A.E., Odia, O.A., Prince O. A., Feyisetan, L.O and Aigbavboa, C.O 2023. Exploring the barriers to the adoption of environmental economic practices in the construction industry in *Environmental Development*
4. Oke, A.E., **Aliu, J.**, Strategic framework for the implementation of environmental economic practices for sustainable construction in a developing economy in *International Journal of Construction Management* (In minor revisions)
5. Oke A.E., **Aliu J.**, Doyin, H.E., Andrew E., Aghimien O.A., Feyisetan, L.O and Aigbavboa, C.O 2023. Exploring constraints in integrating indoor environmental quality (IEQ) into building designs: A case of Nigerian quantity surveying firms in *Construction Innovation* (In minor revisions)
6. Oke A.E., **Aliu J.**, Akinpelu, T.M., Ilesanmi, O.O., and Kehinde T.A., Hindrances to the Adoption of Energy Economics Principles in Nigerian Building Projects in *Energy and Built Environment*
7. Oke A.E., **Aliu J.**, Andrew E., Akinpelu, T.M., Olatunde, T.M., and Ogunsanya O.A., Strategic Drivers for the Deployment of Energy Economics Principles in the Developing Construction Industry: A Nigerian Perspective in *Environmental Progress & Sustainable Energy* (In minor revisions)

8. **Aliu J.**, Oke A.E., Akinpelu, T.M., Dosumu, O.S., and Kineber, A.F., Understanding to Utilization: Assessing Energy Economics Principles in a Developing Construction Sector in *Built Environment Project and Asset Management*
9. Oke A.E., **Aliu J.**, Oni, S.B., and Ilesanmi, O.O., Empirical Analysis of Critical Success Factors for Mechatronics Implementation in AECO Projects in *Technology in Society*
10. **Aliu J.**, Oke A.E., Oni, S.B., and Ilesanmi, O.O., Idea to Integration: Assessing Mechatronics Technologies in the Construction Industry of a Developing Economy in *Journal of Facilities Management*
11. Oke A.E., **Aliu J.**, Ehiosun, L.U., Kineber, A.F., and Seyi S. S., Adoption of Distributed Ledger Technology for Construction Projects: A Study of the Challenges in a Developing Country in *Journal of Engineering, Design and Technology (In minor revisions)*
12. Oke A.E., **Aliu J.**, Ehiosun, L.U., Andrew E., and Rotimi A.A., From Hurdles to Heights: Blueprint for Tackling Distributed Ledger Technology Challenges in the Construction Sector of a Developing Economy in *Journal of Financial Management of Property and Construction*
13. **Aliu J.**, Oke A.E., Akinwumi, I.I., Kanya R.A., and Ehiosun, L.U., Scrutinizing the Level of Awareness and Usage of Distributed Ledger Technology in the Nigerian Construction Industry in *Production Planning & Control*
14. Oke A.E., **Aliu J.**, Ehiosun, L.U., Oyediran A., and Babalola, I.H., Distributed Ledger Technology Applications for Advancing Construction Practices in Nigeria in *Construction Economics and Building*
15. **Aliu J.**, Oke A.E., and Ehiosun, L.U., Distributed Ledger Technology Integration in Nigerian Construction: Key Drivers and Influences in *Smart and Sustainable Built Environment*
16. Oke A.E., **Aliu J.**, Onyeukwu., S.U, Jamir Singh., P.S., Ramli., A.R and Samsurijan., M.S., From Clicks to Bricks: An Empirical Study on the Implications of Social Media for Sustainable Construction and Productivity in *Sustainable Computing: Informatics and Systems*
17. **Aliu J.**, D., O. Aghimien., Ogungbayi, O.D., and Oke A.E., Fuzzy Synthetic Evaluation of the Critical Drivers of UAVs' Deployment for Construction in Nigeria in *Journal of Building Engineering*
18. Oke A.E., **Aliu J.**, Abiola, O.O., and Samuel, U.O., Evaluating Social Media in Architecture, Engineering, Construction and Operation Industry: A Nigerian Perspective on Applications and Benefits in *International Journal of Building Pathology and Adaptation*
19. **Aliu J.**, Oke A.E., Abiola, O.O., Rislán, A.K., Samuel, U.O., From Isolation to Interaction: Evaluating Social Media Awareness and Adoption in a Developing Construction Industry in *Engineering, Construction and Architectural Management*
20. Oke A.E., **Aliu J.**, Helen, I.B., Clinton, O.A., Patience, T.O., Samuel, U.O., From Building Blocks to Digital Networks: Analyzing Driving Factors for Social Media Adoption in the Construction Sector in *Journal of Engineering and Technology Management*

Fellowship and Grants

- Principal Investigator (PI) (2023) – “*Developing an Inclusive Approach to Emergency Management Workforce Training and Development*” – Federal Emergency Management Agency (FEMA) Award, \$10,000

Significant Honors and Awards

- Best Reviewer Recognition for International Journal of Construction Management throughout the year 2022
- Best Reviewer Recognition for International Journal of Construction Management throughout the year 2021
- Global Excellence Stature Fellowship (GES) in support of three years of Doctoral Research (2018-2020) at the Department of Civil Engineering, University of Johannesburg, South Africa (R150,000.00 per year)
- Merit Bursary Award following outstanding Master research result (2018 – 2020)
- Best Track Paper Award (3rd North American IEOM Conference, 2018, Washington D.C)
- Golden Key International Honour following outstanding Master research result in 2018.

Teaching Overview

A- Courses Taught

- Project Management (University of Johannesburg) (2021 – 2022)
- Research Methodology (University of Johannesburg) (2019 – 2022)
- Principles of Sustainability (University of Johannesburg) (2021 – 2022)

- Water Reticulation Design (University of Johannesburg) (2021 – 2022)
- Construction Project Management (Federal University of Technology, Minna) (2013 – 2016)
- Management of Civil Engineering Works II (Federal University of Technology, Minna) (2013 – 2016)

B- Teaching Activities not included in courses listed above:

- Co-developing and delivering curriculum modules on nature-based solutions and natural infrastructure (Overview of Natural Infrastructure and Engineering Design of Natural Infrastructure)
- Developing an educational activity book (for kids and professionals) on nature-based solutions and natural infrastructure
- Developed two (2) graduate courses in Research Methodology on Research Design and Proposal Writing and Research Ethics (2019 – 2022)
- Taught over 200 engineering students online on partial least squares structural equation modeling (PLS-SEM) for analyzing data (2020 – 2022).
- Advised(ing) two PhD students, eight Masters students and thirty-three Bachelors students (2020 – Present) on varying research projects across various whose research interests cut across different built environment themes such as project management, housing, employability, risk management, construction education, construction ergonomics and sustainability (2019 – Present) (University of Johannesburg)
- Organized and took students on-site visits to help develop an understanding and knowledge of engineering and the applicable course content. These site visits included:
 - Construction of Examination Testing Centre (Federal University of Technology, Minna), Phase 1, Phase 2, Phase 3 (seven visits)
 - West African Science Service Centre on Climate Change and Adopted Land Use (WASCAL) building (Federal University of Technology, Minna) (five visits)

Professional Memberships

Project Management South Africa, #55081725, 2018 – Present

South African Institution of Civil Engineering #201800262), 2018 – Present

Workshops and Professional Development Activities

- Participated in the National Academies of Sciences, Engineering, and Medicine workshop on Benefits, Applications and Opportunities of Natural Infrastructure held on May 10-11 at the University of Georgia (UGA) Conference Center, 1197 South Lumpkin Street, Athens, GA 30602.
- Participated in the 11th Construction Industry Development Board (cidb) postgraduate research conference with the theme “Positioning the construction industry in the fourth industrial revolution” held at the School of Tourism and Hospitality, University of Johannesburg, South Africa, from 28th to 30 of July 2019.
- Participated as a member of the organizing Committee of the 5th International Conference on Infrastructure Development in Africa (ICIDA) with the theme “Infrastructure as a Driver for Economic Growth and Integration in Africa: What is the way forward?” held at the Department Of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa, from 10th to 13th July 2016.

Review of Academic and Professional Journals:

- Journal of Cleaner Production, USA (2020 – Present)
- Engineering, Construction and Architectural Management, Emerald Publishing (2019 – Present)
- Sustainable Development Journal (2019 – Present)
- Frontiers in Built Environment (2019 – Present)
- International Journal of Sustainability in Higher Education (2019 – Present)
- Construction Economics and Building, UTS ePress (2019 – Present)
- African Journal of Science, Technology, Innovation and Development (2019 – Present)
- Journal of Construction in Developing Countries, Penerbit USM (2019 – Present)
- Journal of Engineering, Design and Technology, Emerald Publishing (2018 – Present)
- Journal of Construction Project Management and Innovation, University of Johannesburg (2018 – Present)

- Internal Journal of Construction Management (2018 – Present)
- Journal of Construction Engineering and Management (2022 – Present)
- Cogent Economics and Finance (2023 – Present)
- Built Environment Project and Asset Management (2023 – Present)

Public Service:

- Judge: Georgia Science & Engineering Fair (GSEF) – March 2023
- Co-facilitator: Research Experiences for STEM Educators and Teachers (RESET) – May 2022 (Summer)

Postgraduate Thesis Supervision/Co-Supervision

Masters

- Thikho Deon Manyaka (2022) - Assessment of Risk Management Practices in the South African Construction Industry. Masters, the University of Johannesburg (**Completed, 2022**).
- Raesah Essop (2021) - An assessment of virtual reality to enhance performance in the South African construction industry. Masters, the University of Johannesburg (**Completed, 2021**).
- Lwandile Siphelele Tukwayo (2021) - A comparative study of soft skills amongst engineering graduates with industry expectations in South Africa. Masters, the University of Johannesburg (*Ongoing*).
- Monty Mamoswa (2021) - An assessment of how the Fourth Industrial Revolution can be used in communication management to enhance project delivery in the South African Construction Industry. Masters, the University of Johannesburg (*Ongoing*).
- Msizi Malusi Innocent Zungu (2021) - An assessment of the effects of neglecting project management processes by prioritizing water supply for end users before the finalization of source developments and bulk infrastructure in rural communities. Masters, the University of Johannesburg (*Ongoing*).
- Xitshembiso Hartley Nhlangwini (2021) - Application of Construction Safety In Risk Management Systems on Construction Projects. Masters, the University of Johannesburg (*Ongoing*).
- Menzezi Mhlungu (2021) - Integration of Mobile Technology into the Construction Management Higher Education Curriculum in South Africa: A Case Study. Masters, the University of Johannesburg (*Ongoing*).
- Tlou Caroline Kgomo (2023) - Assessing the Integration of Nature-Based Solutions in Construction Projects within the South African Context. Masters, the University of Johannesburg (*Ongoing*).

PhD

- Fortune Aigbe (2023) - A Framework for Managing the Future Construction Workforce in the South African Construction Industry. PhD, the University of Johannesburg (*Ongoing*).
- John Aiyesehinde (2023) - A Smart Cluster Framework for the Informal Automotive Aftermarket Sector: A Case Study of South Africa. PhD, the University of Johannesburg (*Ongoing*).

Professional Work Experience

- **Civil Engineer**
Physical Planning and Developing Unit, Federal University of Technology, Minna (2013 – 2016)
 - Conducted site inspections and surveys to gather information about the project site.
 - Prepared design drawings and specifications using computer-aided design (CAD) software.
 - Assisted senior engineers with project planning, budgeting, and scheduling.
 - Collaborated with other professionals, such as architects, contractors and environmental engineers.
 - Assisted in the preparation of project proposals and bidding documents.
 - Conducted material and equipment research to ensure compliance with project requirements.
 - Assisted in the review and approval of shop drawings, product data, and other submittals.
 - Provided technical support during construction, including field visits to ensure compliance with plans.
 - Maintained accurate project documentation and records.
 - Performed other duties as assigned by senior engineers or project managers.

- **Civil Engineer**
Ministry of Works and Housing, Minna, Niger State (2011-2013)
 - Performed regular site visits, inspections and surveys.
 - Oversaw construction works being completed on site.
 - Worked towards strict deadlines, often under continuous pressure.
- **Intern Civil Engineer**
Physical Planning Unit, Nnamdi Azikiwe University (2009)
 - Performed regular site visits, inspections, audits and surveys.
 - Regularly checked the progress of works according to the schedule.
 - Oversaw construction works being completed on site.
 - Worked towards strict deadlines, often under pressure.
 - Presented design to clients, senior engineers and project managers.

References

- **Professor Brian P. Bledsoe, Ph.D., P.E.**
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