

KOFI AGYEKUM

BSc, MPhil, PhD, MGI OC, MIET, MISDS, MELN, MIBPSA, MPABS, MPIE
Lecturer, Department of Construction Technology and Management, KNUST
Commonwealth Academic Fellow (Loughborough University, UK)
Certified Publons Academy Peer Reviewer & Mentor



1. PROFESSIONAL PROFILE

I am a Lecturer in the Department of Construction Technology and Management, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana. My areas of specialization include: Building Pathology, Sustainable and Lean Construction, and Construction Project Management. I hold BSc (Hons), MPhil, and PhD degrees in Building Technology with extensive industry and research experience in my areas of specialization. I am also a Commonwealth Academic Fellow. I am currently the Assistant Coordinator of Postgraduate Programmes in my department and the Coordinator for Postgraduate Programmes run by the Department on the Institute of Distance Learning (IDL) platform. In addition to these roles, I serve as a Member and the Secretary of the Graduate Committee for the College of Art and Built Environment. I lecture both at the undergraduate and graduate levels and have over the years served on a few both statutory and ad-hoc committees in my university, nationally and internationally. I have also served as a guest editor and editorial board member and a reviewer for several national and international journals and conferences. I am a Professional Peer Reviewer and hold a recognized peer review certificate from the Publons Academy in UK since 2018. Due to my dedication to reviewing articles, I was promoted to the position of a mentor, and I am currently a Certified Publons Academy Mentor. I have researched into several construction related issues in Ghana and other parts of the world and have participated in several international conferences. I am an enthusiastic and dedicated professional, a proactive academic who seeks to make a difference both in Academia and the construction industry.

2. PERSONAL DETAILS

SURNAME:	Agyekum
OTHER NAME(S):	Kofi
DATE OF BIRTH:	4 th August 1985
MARITAL STATUS:	Married
GENDER:	Male
NATIONALITY:	Ghanaian
MAILING ADDRESS:	Department of Construction Technology and Management, College of Art and Built Environment, Kwame Nkrumah University of Science and Technology.

3. ACADEMIC DEGREES AND INSTITUTIONS ATTENDED

Institution Attended	Date
1. Loughborough University, Loughborough, UK (<i>Commonwealth Academic Fellowship</i>)	October 2017 - April 2018
2. Kwame Nkrumah University of Science & Technology, Kumasi-Ghana (<i>PhD</i>)	August 2012 – June 2015
3. Kwame Nkrumah University of Science & Technology, Kumasi-Ghana (<i>MPhil.</i>)	August 2010 – February 2012
4. Kwame Nkrumah University of Science & Technology, Kumasi-Ghana (<i>BSc.</i>)	August 2005- June 2009
5. Opoku Ware Secondary School (SSCE Certificate)	2004

4. UNIVERSITY TEACHING AND OR RESEARCH EXPERIENCE WITH DATES**4(a) Academic ranks held, and subjects taught****4 a (i) Academic ranks held**

Date	Rank
August 2020	Senior Lecturer (Appointment Letter ready)
May 2015-July 2019	Lecturer
August 2013-April 2015	Assistant Lecturer
August 2010-2012	Demonstrator/Graduate Assistant

4 a (ii) Subjects taught

Course Code and Name	Programme	Dates
CTM 152- Elements of Building (Regular Students)- YEAR 1	BSc. Construction Technology & Management	2013-2019
	BSc. Quantity Surveying and Construction Economics	
CTM 251- Soils and Foundation Systems (Regular Students)- YEAR 2	BSc. Construction Technology & Management	2013-2019
	BSc. Quantity Surveying and Construction Economics	
QSCE 355-Materials & Plant Management (IDL)- YEAR 3	BSc. Quantity Surveying and Construction Economics	2014-2019
CTM 355-Post Contract Planning and Control (Institute of Distance Learning) YEAR 3	BSc. Construction Technology & Management	2014-2019
	BSc. Quantity Surveying and Construction Economics	

CTM 366-Building Maintenance (Institute of Distance Learning)- YEAR 3	BSc. Construction Technology & Management	2013-2014
	BSc. Quantity Surveying and Construction Economics	
FM 553- Project Management	MSc. Facilities Management	2018-Date
PM 562- Research Methods	MSc. Project Management	2017-Date

5. PROFESSIONAL MEMBERSHIP/TITLES

Member	Ghana Institute of Construction (MGIOC)-Ghana
Member	Institution of Engineering and Technology (MIET)-Ghana
Member	International Society for Development and Sustainability (MISDS)-Japan
Member	International Building Performance Simulation Association (MIBPSA)-England
Member	Professional Association of Building Surveyors (MPABS)
Member	Publication Integrity and Ethics (MPIE)
Member	Emerald Literati Network (MELN)

6. GRANTS/FELLOWSHIPS/HONOURS/AWARDS

Grants and Fellowships	Year
1. Commonwealth Academic Fellowship, Commonwealth Scholarship Commission, UK	2017-2018
Honours and Awards	Year
1. Overall Best Senior Member (2017/2018 Academic Year) Research & Publication; College of Art and Built Environment.	2018
2. Overall Best Presenter; 6th International Conference on Infrastructure Development in Africa, Kumasi, Ghana.	2017

7. SELECTED RESEARCH EXPERIENCE

Since my appointment to date, I have directly been involved in the supervision of the following number of graduate and undergraduate theses in the university.

- | | |
|--------------|---------------------------|
| 1. PhD | - 3 On-going |
| 2. MPhil | - 4 Completed, 2 On-going |
| 3. MSc/BCERM | - Over 60 Completed |
| 4. BSc | - Over 60 Completed |

Postgraduate theses supervised

No	Topic of thesis with date	Status
1	Ampratwum, G. (2018) "A framework for implementing green certification of buildings in Ghana", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MPhil. Construction Management.	Completed
2	Alormene, G.A. (2018) "The role of Project Managers in construction health and safety implementation in Ghana", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
3	Fab, J.P. (2018) "Effectiveness of land regularization projects as a planning tool in TDC Development Company Limited", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
4	Seidu, A. (2018) "Occupational health and safety hazards among domestic waste collectors in North Dayi District and Kpando Municipality", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
5	Mensah, D.D. (2018) "Workplace health promotion and its effect on production: A case of CSGH Design, Construction and Project Management Company", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
6	Nomo, E.T. (2018) "Effect of stakeholder interference on performance of contractors in project delivery in the construction industry", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
7	Amegatsey, G.S. (2018) "Examining the career progression of construction project managers in Ghana", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
8	Amoah, J.K. (2018) "Assessing the social and environmental impacts of illegal mining in River Pra: A case of Ghana Water Company Limited treatment plant at Dabaase", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed

Postgraduate theses supervised cont'd

No	Topic of thesis with date	Status
9	Oppong, J.K. (2018) "Factors influencing construction project delays in National Vocational Training Institutes", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
10	Suleman, K. (2018) "Assessment of causes of project failures and abandonment practices of some selected public institutions in the Greater Accra Metropolis", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
11	Antie, M.N.A. (2018) "Key managerial measures contributing to construction waste reduction: evidence from construction projects in Ghana", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
12	Yaokumah, M. (2018) "Barriers to effective communication in projects undertaken by SSNIT", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
13	Sarpong, A.B.S. (2018) "Factors affecting health and safety performance in mining projects: evidence from Newmont Golden Ridge Limited", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
14	Yeboah, A. (2018) "Examining project management practices at the GWCL Head Office, Accra", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
15	Adu-Agyekum, J. (2018) "Improving the performance of safety programmes in the Ghanaian construction industry", A Thesis Submitted to the Department of Construction Technology and Management in Partial Fulfilment of a Degree in MSc. Project Management.	Completed

Postgraduate theses supervised cont'd

No	Topic of thesis with date	Status
16	Adjaidoo, A.A. (2017) "The Role of Forecasting in Financial Risk Management: Case Studies of Unibank, Prudential Bank and United Bank for Africa", An MSc. Thesis Submitted to the School of Graduate Studies, KNUST, in Partial Fulfilment of a Degree in Business Consulting and Enterprise Risk Management	Completed
17	Abass, A. (2017) "Factors that influence the decision to insure small and medium enterprises against fire in the Tamale Metropolis", An MSc. Thesis Submitted to the School of Graduate Studies, KNUST, in Partial Fulfilment of a Degree in Business Consulting and Enterprise Risk Management	Completed
18	Wantame, A.I. (2017) "Exploring Value for Money Practices by Public Procurement Entities in Ghana: A Look at the Road Sector Agencies of the Ministry of Roads and Highways", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Procurement Management.	Completed
19	Sule, M. (2017) "Factors Influencing the Performance of Safety Programmes in Ghanaian Construction Projects: A Case Study of Selected Construction Firms in Tamale", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
20	Anane, S.K. (2017) "Sustainable Public Procurement Practices at CSIR Institutes in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Procurement Management.	Completed
21	Amoah, F. (2017) "Information Asymmetry and Credit Risk Mitigation Among Banks in Ghana: A Case Study of Access Bank Ghana PLC", An MPhil. Thesis Submitted to the School of Graduate Studies, KNUST, in Partial Fulfilment of a Degree in Business Consulting and Enterprise Risk Management.	Completed
22	Armah, A.A. (2017) "Exploring team building activities used by project managers in the Ghanaian building industry", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Project Management.	Completed

Postgraduate theses supervised cont'd

No	Topic of thesis with date	Status
23	Bonney, S. (2017) "Applying the principles of zero waste in construction: Perceived challenges and benefits", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
24	Abdallah, S. (2017) "The effectiveness of exit strategies on the sustainability of NGO projects in Northern Region of the Republic of Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Project Management.	Completed
25	Adade, L. (2017) "Current practices and future developments of lean construction among construction organizations in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management	Completed
26	Hammond, J. (2017) "The impact of knowledge management on project success in the Ghanaian Building Industry", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Project Management.	Complete
27	Mohammed, B. (2017) "Barriers and opportunities for offsite construction in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
28	Osei, A.B. (2017) "Barriers to the adoption of green technologies among large construction firms in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management	Completed

Postgraduate theses supervised cont'd

No	Topic of thesis with dates	Status
29	Mensah, N.K. (2016) "Collaboration in the Ghanaian Construction Industry: Perceived Barriers and Benefits", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
30	Fummey, S.L. (2016) "Exploring Critical Success Factors for Stakeholder Management in Construction Projects in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
31	Awuah, H.K. (2016) "Waste Reduction Strategies on Construction Projects: The Case of Accra Metropolis", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
32	Naeem, I. (2016) "Factors Influencing Labour Productivity in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
33	Atuahene, C. (2016) "The Effect of Foreign Exchange Rate Risk on the Learning and Investments of the Manufacturing Companies in Ghana", An MPhil Thesis Submitted to the School of Graduate Studies, KNUST in Partial Fulfilment of a Degree in Business Consulting and Enterprise Risk Management.	Completed
34	Davies, D. (2016) "The Role of Risk Management in the Recovery of Non-Performing Loans in Ghana: A Case Study of Prudential Bank Limited", An MPhil Thesis Submitted to the School of Graduate Studies, KNUST in Partial Fulfilment of a Degree in Business Consulting and Enterprise Risk Management.	Completed
35	Buckson, R. (2015) "Barriers to Design-Stage Cost Planning", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
36	Hagan, N.K. (2015) "Stakeholder Management Practices of Ghanaian Building Contractors", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
37	Agyapong, E.O. (2015) "Sustainable Building Construction Practices of Ghanaian Building Contractors", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed

Postgraduate theses supervised cont'd

No	Topic of thesis with dates	Status
38	Hagan, K.E. (2015) "Managing Conflicts in Construction of Public Projects in Ghana: A Case Study of Selected Building Projects in Ashanti Region", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
39	Podieh, Y.A. (2015) "Risk Management Practices of Building Construction Stakeholders in Tamale", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
40	Kpodo, B. (2015) "The Effects of Risk Culture on Organizational Performance: The Case of some Selected Financial Institutions in Ghana", An MPhil Thesis Submitted to the School of Graduate Studies, KNUST in Partial Fulfilment of a Degree in Business Consulting and Enterprise Risk Management.	Completed
41	Anim, S.R.K. (2014) "Assessing Procurement Monitoring Processes and Procedures at Yilo Krobo Municipal Assembly", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
42	Adugu, P. (2014) "Challenges to the Implementation of the Public Procurement Act (ACT 663) at State Owned Enterprises", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
43	Peprah, A. (2014) "Assessing the Processes for Procurement of Works in Achieving Value for Money within District Assemblies", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
44	Twumasi, H. (2014) "The Relevance and Use of Audited Financial Statements during Tender Evaluation in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
45	Ametepe, K. (2014) "Factors Affecting the Effectiveness of Anti-Corruption Institutions in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed
46	Aloysius Sam (2014) "Factors Influencing the Cost of Tendering for Works by Contractors in Ghana", An MSc. Thesis Submitted to the School of Graduate Studies in Partial Fulfilment of a Degree in MSc. Construction Management.	Completed

Sample undergraduate theses supervised

No.	Topic of thesis with date	Status
1	Yeenu-Prah, K.A.J. (2017) "Examining the application of lean construction in affordable housing schemes in Ghana: A Case study of Accra Metropolis", To assess the perceptions of stakeholders on the concept of affordable housing; and To identify the enablers of lean construction concept in affordable housing schemes in Ghana. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
2	Lartey, I.S. (2017) "Examining the application of lean construction in affordable housing schemes in Ghana: A Case study of Accra Metropolis", To identify the potential barriers to the application of Lean construction principles in Ghana; and To recommend measures to control the barriers to lean implementation in Ghana. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
3	Bediako, L.K. (2017) "Assessing the compressive strength properties of sandcrete blocks produced with varying proportions of quarry dust as partial replacement for sand as fine aggregate and ordinary Portland cement as binder", To determine the compressive strength properties of the block samples produced; and To determine the densities of block samples. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
4	Sumala-Ang Kansaanba, A. (2017) "Assessing the compressive strength properties of sandcrete blocks produced with varying proportions of quarry dust as partial replacement for sand as fine aggregate and ordinary Portland cement as binder", To determine the variations in compressive strength properties in various samples. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
5	Ofosu, D.D., Sarpong, A.D., Osei Assibey, A.A.D., des Bordes, L.S.K. and Samlafo, K.H. (2017) "Issues of rising damp in residential buildings: A case study of deduako, Kumasi", An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
6	Ntim, E., Cofie, R.K.P. and Okyere, A.D. (2017) "Factors affecting labour productivity in the Ghanaian Construction Industry", An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed

Sample undergraduate theses supervised cont'd

No.	Topic of Thesis with date	Status
7	Dwumoh, B.J. (2017) "Introducing e-learning into construction education in Ghana: experiences of construction undergraduate students at KNUST", To determine the experiences of construction undergraduate students with e-learning. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
8	Yunus, T.T. (2017) "Introducing e-learning into construction education in Ghana: experiences of construction undergraduate students at KNUST", To assess the viability of using e-learning in construction education in Ghana. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
9	Kanzoni, L. (2017) "Introducing e-learning into construction education in Ghana: experiences of construction undergraduate students at KNUST", To examine students' perspectives on the feasibility of e-learning in construction education. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
10	Opoku, K.R. (2017) "Introducing e-learning into construction education in Ghana: experiences of construction undergraduate students at KNUST", To identify areas that require improvement in developing e-learning modules. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
11	Nyarko, L.S. and Azumah, S.K. (2017) "Introducing e-learning into construction education in Ghana: experiences of construction undergraduate students at KNUST", A case study of IDL construction students in Accra. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
12	Anane, P. (2017) "Factors affecting the performance of safety programmes of construction projects in Ghana", To assess the awareness of stakeholders on safety programmes in the Ghanaian Construction Industry. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
13	Badu, P. (2017) "Factors affecting the performance of safety programmes of construction projects in Ghana", To identify the factors that influence the performance of safety programmes in the Ghanaian Construction Industry. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
14	Tagoe, N. (2017) "Factors affecting the performance of safety programmes of construction projects in Ghana", To determine the measures put in place by the stakeholders in the Ghanaian Construction Industry to ensure the smooth implementation of safety programmes. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
15	Kontong, A. Asiedu, B.K. and Nkrumah, F.F. (2017) "Factors affecting the performance of safety programmes of construction projects in Ghana: A case study of selected construction firms in the Kumasi Metropolis", An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST	Completed

Sample undergraduate theses supervised cont'd

No	Topic of thesis with date	Status
16	Ankobiah, W.A. (2016) "The impact of Building Information Modelling on Labour Productivity in the Ghanaian Construction Industry", To Critically Review Literature on BIM in the Ghanaian Construction Industry. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
17	Appiah-Peniell, W. (2016) "The impact of Building Information Modelling on Labour Productivity in the Ghanaian Construction Industry", To identify factors affecting construction labour productivity. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
18	Batsa, K. (2016) "The impact of Building Information Modelling on Labour Productivity in the Ghanaian Construction Industry", To determine the impact of BIM on labour productivity. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
19	Frimpong, S.F. (2016) "The impact of Building Information Modelling on Labour Productivity in the Ghanaian Construction Industry", An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
20	Ossei-Gudom, B.M. (2016) "Opportunities and Challenges of BIM Implementation in the Ghanaian Construction Industry", To conduct a critical literature review on BIM. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
21	Ansu-Tutu, K. (2016) "Opportunities and Challenges of BIM Implementation in the Ghanaian Construction Industry", To identify the challenges which hinder the implementation of BIM in the Ghanaian Construction Industry. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
22	Narhiorh, M.J. (2016) "Opportunities and Challenges of BIM Implementation in the Ghanaian Construction Industry", To identify the opportunities associated with the implementation of BIM in the Ghanaian Construction Industry. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
23	Amoateng, I. (2016) "Comparing the Structural Properties of Sandcrete Blocks Produced with Different Types of Cements", An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed
24	Asamoah-Boakye, D. (2016) "Facility Management in Halls of Residences in Public Universities: The Case of KNUST", To assess the awareness of facility managers on facility management in the halls of residences. An Undergraduate Thesis Submitted to the Department of Building Technology, KNUST.	Completed

8. DETAILS OF RESEARCH UNDERTAKEN SINCE MY LAST APPOINTMENT**8(a) Research Conducted (Topics with dates)**

No	RESEARCH UNDERTAKEN	DETAILS
1.	Durability properties of recycled aggregate concrete (2018-2019)	<ol style="list-style-type: none"> 1. Developing a mix design and an associated mix procedure for structural concrete incorporating CCA, GGBS and superplasticizer. 2. Testing concrete samples for compressive strength, sorptivity, rapid chloride migration, and rapid and bulk resistivity. 3. Investigating the microstructure of the ITZ between cement paste and aggregate in recycled concrete using SEM.
2.	Fire safety Awareness and Management (2016-2017)	<ol style="list-style-type: none"> 1. Fire Safety Awareness and Management in Multi-Storey Students' Hostels. 2. Challenges to fire safety management in multi storey students' hostels. 3. Fire safety management in the central business district of Kumasi 4. Assessing Urban Fire Risks in the Central Business District of Sekondi Takoradi. 5. Assessing Urban Fire Risks in the Central Business District of Accra
3.	Post Occupancy Evaluation of Buildings (2015-2017)	<ol style="list-style-type: none"> 1. Post occupancy evaluation of postgraduate hostels on KNUST campus
4.	Construction Education, Research and Information Technology (2015-2019)	<ol style="list-style-type: none"> 1. Incorporating Information Technology in Quantity Surveying Practice in Ghana 2. Rethinking research utilization in the built environment: A critical look at push and pull factors. 3. Putting Research into Practice: Exploring the Inherent Challenges of Research Uptake in the Built Environment Faculties in Ghana

Research Conducted (Topics with dates) cont'd

No	RESEARCH UNDERTAKEN	DETAILS
5	Utilization of indigenous construction materials (2014-Date)	<ol style="list-style-type: none"> 1. Factors inhibiting the use of indigenous building materials 2. Barriers hindering the use of burnt clay bricks in construction 3. Using bamboo as an alternative construction material to timber 4. Comparing the Structural Properties of Sandcrete Blocks Produced with Different Types of Cements
6	Sustainable and Lean Construction (2013-Date)	<ol style="list-style-type: none"> 1. Application of Lean Principles in the Ghanaian Construction Industry 2. Materials waste reduction through lean principles 3. Incorporating environmental sustainability into construction procurement 4. Implementation of environmentally sustainable construction principles in the Ghanaian construction industry 5. Environmental considerations in procurement decisions 6. Environmental impact of construction site activities in Ghana
7	Dampness and defects in Ghanaian residential buildings (2013-Date)	<ol style="list-style-type: none"> 1. Sources and causes of dampness in residential buildings 2. Building survey and diagnosis 3. Treatment of dampness in buildings 4. Diagnosing defects associated with government buildings 5. Rising damp in Ghanaian buildings 6. Controlling rising damp in new buildings

8 (b) Publications arising out of the Research

Below is a summary of my publication count so far.

1. Published Theses	- 4
2. Chapters	- 1
3. Journal Papers	- 71
4. Conference Papers	- 41

See: Google scholar: <https://scholar.google.com/citations?user=A6-1o2MAAAAJ&hl=en>

Researchgate: https://www.researchgate.net/profile/Kofi_Agyekum

Academia.edu: <https://independent.academia.edu/AgyekumKofi>

Books with exact References

1. Kpodo, B. and **Agyekum, K.** (2016) “Effects of Risk Culture on Organizational Performance”, LAP Lambert Academic Publishing, pp. 116. ISBN-10: 3659835315 ISBN-13: 978-3659835315.
2. Opoku, D.J., Owusu-Manu, D. and **Agyekum, K.** (2016) “Global Mindset Factors Affecting Performance of Foreign Contractors”, LAP Lambert Academic Publishing, pp. 92. ISBN-10: 3659856556 ISBN-13: 978-3-659-85655-6.
3. Adjarko, H., Ayarkwa, J. and **Agyekum, K.** (2016) “Incorporating Environmental Sustainability Issues into Construction”, LAP Lambert Academic Publishing, pp. 136. ISBN-10: 3659854798 ISBN-13: 978-3-659-85479-8.
4. **Agyekum, K.**, Ayarkwa, J. and Adinyira, E. (2012) “Minimizing materials wastage at the construction stage of a project: A Lean Construction Approach”, LAP Lambert Academic Publishing, ISBN-10: 3659158941, ISBN-13: 978-3659158940. 208p.

Book Chapters with exact References

1. Salgin, B., **Agyekum, K.** and Simons, B. (2019) “Designing out damp: Exploring basic design principles to excessive moisture in buildings”. New Approaches to Spatial Planning and Design, Planning, Design and Applications. Peter Lang GmbH Publishing, Berlin, Germany.

Refereed Journal Papers with exact References

1. **Agyekum, K.**, Adinyira, E. and Ampratwum, G. (2020) “Factors driving the adoption of green certification of buildings in Ghana”, Smart and Sustainable Built Environment, DOI: 10.1108/SASBE-02-2019-0017.

2. **Agyekum, K.**, Kissi, E., Danku, J.C., Ampratwum, G. and Amegatsey, G. (2020) "Factors driving the career progression of construction project managers", *Journal of Engineering, Design and Technology*, DOI: 10.1108/JEDT-09-2019-0242.
3. Ankomah, E.N., Ayarkwa, J. and **Agyekum, K.** (2020) "Status of lean construction implementation among small and medium building contractors (SMBCs) in Ghana", *Journal of Engineering, Design and Technology*, DOI: 10.1108/JEDT-12-2019-0354.
4. Ayarkwa, J., **Agyekum, K.**, Opoku, D-J., Amponsah, A.A. (2020) "Barriers to the implementation of environmentally sustainable procurement in public universities", *International Journal of Procurement Management*, Vol. 13 No. 1, pp. 24-41.
5. Danku, J.C., Adjei-Kumi, T., Baiden, B.K. and **Agyekum, K.** (2020) "An exploratory study into social cost considerations in Ghanaian construction industry", *Journal of Building Construction and Planning Research*, Vol. 8, pp. 14-29.
6. Danku, J.C., **Agyekum, K.** and Asare, F.T. (2020) "Professionals' perceptions on construction progress measurement methods used in Ghana". *World Journal of Engineering and Technology*, Vol. 8, pp. 145-158.
7. **Agyekum, K.**, Blay, K. and Opoku, A. (2019) "Mechanisms for preventing rising damp in new building infrastructure", *International Journal of Building Pathology and Adaptation*, Vol. 37 No. 1, pp. 87-107.
8. **Agyekum, K.**, Adinyira, E., Baiden, B.K., Ampratwum, G. and Duah, D. (2019) "Barriers to the adoption of green certification of buildings: A thematic analysis of verbatim comments from Built Environment Professionals". *Journal of Engineering, Design and Technology*, <https://doi.org/10.1108/JEDT-01-2019-0028>.
9. Blay, K., **Agyekum, K.** and Opoku, A. (2019) "Actions, attitudes and beliefs of occupants in managing dampness in buildings", *International Journal of Building Pathology and Adaptation*, Vol. 37 No. 1, pp. 42-53.
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9. RECORD OF SERVICE TO THE COMMUNITY

9 (a) University

- i. **Academic Tutor, Department of Construction Technology and Management** (2013-2019). My duties have been to guide students, assisting them with their challenges (most especially academics) and other issues.
- ii. **Assistant Examinations Officer, Department of Construction Technology and Management** (2013-2017). I assisted the main examination officer in the coordination and conduct of examinations in the Department of Construction Technology and Management. I also assisted in the collation and compilation of examination results to be presented at the Departmental, Faculty, and college board meetings.
- iii. **Coordinator, Regular and IDL integrated project works** (2014-2017). This is a professional course that requires students to put into practice all the principles and lessons learned from the various courses of their four year stay in their respective programmes. I was responsible for ensuring that the course was properly coordinated and carried out.
- iv. **Service Lecturer, Department of Planning** (2014-2019). I render service in a course, BT 151 Introduction to Materials and Construction, to the Department of Planning.
- v. **Member, College (CABE) Conferences Committee** (2016-2019). The Committee is responsible for the following: a) To perform Editorial Functions of CABE Conferences, including ICIDA and Postgraduate Conferences; and b) To scout for local and international scientific reviewers.
- vi. **Member and Secretary, College (CABE) Graduate Committee** (2016-2019). As part of the terms of reference, the committee is responsible for: i) directing postgraduate research orientation in the College; ii) Coordinating all graduate seminars in the college; iii) regulating and coordinating the processes of the conduct of all graduate examinations including comprehensive examinations; and iv) coordinating graduate activities and programmes and making appropriate recommendations for School of Graduate Studies through the Provost.

- vii. **Member, Committee to review a proposal on Doctor of Philosophy (Design) in the Department of Communication Design, KNUST (2017).** As part of the terms of reference, the committee had to: i) Review the document using the approved Academic Board requirement on mounting New Programmes; ii) Ensure that the document met the School of Graduate Studies Standards; and iii) Incorporated any other issues that was important to the successful mounting of the programme.
- viii. **Member, Committee to review a proposal on Master of Communication Design in the Department of Communication Design, KNUST (2016).** As part of the terms of reference, the committee had to: i) Review the document using the approved Academic Board requirement on mounting new programmes; ii) Ensure that the document met the School of Graduate Studies Standards; and iii) Incorporated any other issue that was deemed important to the successful mounting of the programme.
- ix. **Member, College of Art and Built Environment KNUST Alumni Representative (2016-2019).** I am a member of the CABA KNUST Alumni representatives. The function of the College KNUST Alumni Representatives include: i) to organize the CABA Alumni into a formidable Alumni Association; ii) to represent the interest of the College on KNUST Alumni functions; iii) to facilitate dissemination of information regarding KNUST Alumni programmes, benefits and services made available through KNUST Alumni Office; iv) to represent the College Alumni Association at Special events for all Alumni programmes; v) to serve as a voice for the College during KNUST Alumni meetings, conferences, etc.; vi) to foster a two-way dialogue that communicates the accomplishment, aspirations and needs of the College, and the University to its graduates; and achievements, interests and concerns of alumni to their alma mater; vii) to offer CABA graduates the opportunities for involvement in the life and the livelihood of the College and the entire University community; viii) to promote the importance of Alumni engagement with the University and its associated rewards; ix) to provide regular updates of the College Alumni to the Provost and the College Board; initiatives, achievements, challenges and the way forward; and x) to respond to any other responsibility that may be assigned to me by the Provost.
- x. **Member, Committee for IDL Short Courses/Continuous Professional Education (CPEs) (2015).** The committee sought to discuss preliminary preparations and steps already taken in this direction; to draw up the modalities for implementation of short courses/continuous professional education at IDL; and to discuss the programmes for implementation during long vacation 2015/2016 academic year.
- xi. **Member, Committee for Workshop on Proposed Department of Educational Innovations at IDL. (2015).**
- xii. **Coordinator, MSc. Project Management (March 2017-2018).** I provided leadership in the following areas: 1) Admission of students onto the programme; 2) Preparation of

- Time Table for the programme; 3) Reviewing curriculum to reflect the times, amongst other things.
- xiii. **Coordinator, Institute of Distance Learning (IDL) Postgraduate Programmes** (August 2018-Date).
 - xiv. **Assistant Coordinator-Department of Construction Technology and Management Postgraduate Programmes** (August 2018-Date).
 - xv. **Member, Committee to review the curricula of undergraduate programmes of the Department of Construction Technology and Management (February 2020)**. As part of the terms of reference, the committee was responsible for: i) Considering the comments from National Accreditation Board on the re-accreditation of the CTM and QSCE programmes; 2) Harmonizing the course details of the said programmes; 3) Proposing suitable course codes where appropriate for the programmes; and 4) Addressing any other curriculum-related issues concerning the programmes.

9 (b) National

- i. **Moderation of Examination Questions for Pentecost University College** (2016). I moderated examination questions on the courses CTEM 101: Introduction to Materials and Construction and CTEM 201: Soil and Foundation Systems.
- ii. **Secretary, Professional Practice Committee of the Ghana Institute of Construction** (2016). The committee is responsible for the dissemination of information on matters affecting building; encouraging research and invention; awards in the field of professional practices; promotion of excellence in the construction industry, just and honourable practice in the conduct of business; and producing ratification by the National Council, Rules and Regulations and code of ethics for the Institute. To liaise between the Contractors' Association and the Institute.
- iii. **External Examiner-University of Education, Winneba** (2016). I represented Professor Joshua Ayarkwa as the external examiner during an MPhil Defense at the University of Education, Winneba.

- iv. **Resource person, Ghana Institute of Construction (2015).** I was invited as the speaker during the Continuing Professional Development (CPD) seminar on 'Rising Dampness in Buildings: An Issue Worth Addressing.
- v. **Resource person, Ghana Institution of Architects, Northern Chapter (2014).** I was invited to give a talk on "Rising damp in buildings: Causes and Remedies".

9(c) International

- i. **Peer-Reviewer, HELIYON (March 2020),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled "Impacts of lateritic and sandcrete block materials on indoor environment of air-conditioned room space and the influence on energy consumption"
- ii. **Peer-Reviewer, Journal of Small Business and Entrepreneurship, Taylor and Francis (March 2020),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled "Evaluation of the effect of education and microcredit investment on the young adults' independence".
- iii. **Peer-Reviewer, International Journal of Building Pathology and Adaptation (February 2020),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled "Defects associated with the step geometry of general access stairs and the risk of accidents".
- iv. **Peer-Reviewer, International Journal of Construction Management, Taylor and Francis (February 2020),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled "Integrated lean concepts and continuous/discrete-event simulation to examine productivity improvement in door assembly-line for residential buildings".
- v. **Peer-Reviewer, Acta Structilia (February 2020),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled "Assessing the cause of schedule and cost overruns in South African megaprojects: A case of the critical energy sector projects in South Africa".
- vi. **Peer-Reviewer, International Journal of Construction Management, Taylor and Francis (December 2019),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled "Marginalization of end-user stakeholder's in public private partnership road projects in Nigeria".

- vii. **Peer-Reviewer, Journal of Building Engineering, Elsevier (August 2019).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “The most critical issues and challenges of fire safety for building sustainability in Jakarta”
- viii. **Peer-Reviewer, Journal of Professional Issues in Engineering Education and Practice MS EIEIG-1426, ASCE, (September, 2019 and March 2020),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Introducing high school students into the multidisciplinary world of bridge construction by project-based learning”.
- ix. **Peer-Reviewer, Construction Economics and Building (September 2019),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Trojans of ambiguity vs resilient regeneration: visual meaning in cities”.
- x. **Peer-Reviewer, Journal of Engineering, Design and Technology, Elsevier (September 2019),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Analysing critical delay factors for construction projects in Malaysia”.
- xi. **Peer-Reviewer, Journal of Construction Business and Management (August 2019),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Key factors of integrated approach to sustainable urban infrastructure development among infrastructure organisations/agencies”.
- xii. **Peer-Reviewer, Smart and Sustainable Built Environment, Emerald (December 2019),** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “A critique of green building rating system and the need for its benchmarking in Nigeria”.
- xiii. **Member, International Organizing Committee, 5th International Conference on Infrastructure Development in Africa (ICIDA 2016), Johannesburg, South Africa (2016).**
- xiv. **Member of the Organizing Committee, 4th International Conference on Infrastructure Development in Africa (ICIDA 2015)** held by the College of Art and Built Environment, KNUST (2015).
- xv. **Peer-Reviewer, International Journal of Building Pathology and Adaptation (2018).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Delay factors of the schedule of strategic industrial projects”.
- xvi. **Peer-Reviewer, Acta Structilia (2018).** I reviewed 2 manuscripts submitted to the Journal for publication. The manuscripts were titled “The effect of sustainable initiatives on the management of revenue for beneficiary communities for South African renewable

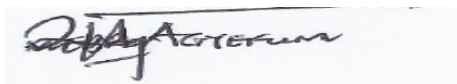
- energy construction companies as part of the project management” and “Tender evaluation and selection model for public works procurement in Ghana”.
- xvii. **Peer-Reviewer, Planning Practice and Research (2018).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Pedestrian involvement in the design, construction and maintenance of footbridges in Ghana. A case of the KNUST footbridge in the Kumasi Metropolis”.
- xviii. **Peer-Reviewer, Journal of Building Construction and Planning Research (2018).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Bioclimatic guidelines for passive design of buildings from local climate data processing in Sinop, Brazil”.
- xix. **Peer-Reviewer, Asian Journal of Applied Sciences (2018).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Implementation of value engineering for construction efficiency”.
- xx. **Peer-Reviewer, South African Institute of Civil Engineering Journal (2018).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled ‘A conceptual framework for sustainable road infrastructure project implementation in developing countries’.
- xxi. **Peer-Reviewer, Journal of Construction Business and Management (2018).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled ‘Frameworks for material waste minimization on Nigerian building projects’.
- xxii. **Peer-Reviewer, Jurnal Teknologi (2016).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Organizational Factors Influencing Effective Construction Risk Management: A Case study of Nigerian Construction Companies”.
- xxiii. **Peer-Reviewer, Journal of Building Performance (2016).** I reviewed two manuscripts submitted to the journal for publication. The manuscripts were titled: i) Renewable Indoor Radiant Cooling and Earth Tube Heat Exchanger Hybrid for Thermal Comfort Improvement; and ii) Evaluation of Hostel Accommodation in Federal University of Technology, Minna, Nigeria.
- xxiv. **Peer-Reviewer, Acta Structilia (2016).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “The Contributions of Construction-Material Waste to Project-Cost Overruns in Abuja, Nigeria.
- xxv. **Peer-Reviewer, BMRJ, (2016).** I reviewed a manuscript submitted to the journal for publication. The manuscript was titled “Does Organization Learning Capacity Influence the Organization Effectiveness: Moderating Role of Absorptive Capacity.

- xxvi. **Peer-Reviewer**, 5th International Conference on Infrastructure Development in Africa (ICIDA 2016), Johannesburg, South Africa (2016). I reviewed several papers submitted for consideration in the conference.
- xxvii. **Reviewer**, 4th International Conference on Infrastructure Development in Africa (ICIDA 2015) held by the College of Art and Built Environment, KNUST (2015). I reviewed several papers submitted for consideration in the conference.
- xxviii. **Peer-Reviewer, 3rd International Conference on Applied Research and Technology (ICAST 2016)**. I reviewed a manuscript submitted to the conference for consideration. The manuscript was titled: Modelling the Determinants of Households' Involvement in Waste Separation and Collection for Recycling in South Africa.
- xxix. **Peer-Reviewer, Modern Management Science and Engineering Journal, UK (2015)**. I have been reviewing manuscripts submitted to the Journal for publication
- xxx. **Peer-Reviewer, Advances in Research (2014)**. I reviewed a manuscript submitted to the journal for publication. The manuscript was titled MS: 2014_AIR_13373: An investigation of curing system impact on the early age strength of sustainable foamed concrete
- xxxi. **Editorial Board Member, Modern Management Science and Engineering Journal, UK (2013)**.
- xxxii. **Article Editor, Sage Plus (2016)**, I served as the article editor for the paper 'The Practice and Problems of Defect Liability Period in the Real Estate Industry in Ghana'.
- xxxiii. Editorial Board Member, Acta Structilia (2018-Date).

REFEREES

PROF. B.K. BAIDEN
DEPARTMENT OF CONSTRUCTION TECHNOLOGY AND MANAGEMENT
COLLEGE OF ART AND BUILT ENVIRONMENT
KNUST, KUMASI

PROF. EMMANUEL ADINYIRA
DEPARTMENT OF CONSTRUCTION TECHNOLOGY AND MANAGEMENT
COLLEGE OF ART AND BUILT ENVIRONMENT
KNUST, KUMASI

A handwritten signature in black ink on a light blue background. The signature is cursive and appears to read 'P. Agreum'.

Signature

2ND January, 2020

Date