Emmanuel Kusi Achampong

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PROFILE

I am a Lecturer in the Department of Medical Education and IT. I teach medical informatics. My research interests include electronic health records and cloud computing security.

RESEARCH

Interests	Health Informatics
Areas	Health Information Management · General Health Professions · Public Health, Environmental and Occupational Health · Pediatrics, Perinatology and Child Health · Information Systems · Issues, ethics and legal aspects

RESEARCH SUMMARY

37	418	10	11	8.84	30%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 37 publications listed below, 2010–2026. Field-weighted impact is the mean over the 27 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 27 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer 2009–present
Department of Medical Education and IT, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2012–present
Department of Information Technology, Open University Malaysia, Kuala Lumpur, Malaysia

PUBLICATIONS

Journal articles 37

1. Edward Agyemang, Kobina Esia-Donkoh, Addae Boateng Adu-Gyamfi, **Emmanuel Kusi Achampong** (2026). Challenges Associated With the Use of Electronic Health Record Systems for Health Service Delivery in Ghana. *Advances in Health Information Science and Practice*. https://doi.org/10.63116/xqpg1557
2. Nkechi O Dike, Priscilla Okyere, Jonathan Kajjimu, **Emmanuel K Achampong** (2026). Enhancing Emergency Trauma Management Skills Through Simulation: A Quality Improvement Initiative in Ghana. *Cureus*. https://doi.org/10.7759/cureus.105156
3. **Emmanuel K. Achampong**, Edward Agyemang, Kobina Esia-Donkoh, Addae Boateng Adu-Gyamfi (2025). Health Professionals' Satisfaction with the Use of Electronic Health Records System for Healthcare Delivery in Ghana. *Advances in Health Information Science and Practice*. https://doi.org/10.63116/pbzc1086
4. Josip Car, Qi Chwen Ong, Tatiana Erlikh Fox, Daniel Leightley, Sandra J. Kemp, Igor Švab, Kelvin K. F. Tsoi, Amir H. Sam, Fiona M. Kent, Attila J. Hertelendy, … **Emmanuel K. Achampong** and 67 others (2025). The

Digital Health Competencies in Medical Education Framework. *JAMA Network Open*. https://doi.org/10.1001/jamanetworkopen.2024.53131

5. Edward Agyemang, Addae Boateng Adu-Gyamfi, **Emmanuel Kusi Achampong**, Kobina Esia-Donkoh (2024). Assessing the interdependency among effectiveness, satisfaction and efficient use of the Lightwave Health Information Management System (LHIMS) by health professionals in Ghana. *BMC Health Services Research*. https://doi.org/10.1186/s12913-024-11883-3
6. Charles Nana Agyemang Amoateng, **Emmanuel Kusi Achampong** (2024). Impact of the Lightwave Health Information Management Software on the Dimensions of Quality of Healthcare Data. *Healthcare Informatics Research*. https://doi.org/10.4258/hir.2024.30.1.35
7. Anthony Lirase Apio, Jonathan Kissi, **Emmanuel Kusi Achampong** (2023). A systematic review of artificial intelligence-based methods in healthcare. *International Journal of Public Health Science (IJPHS)*. https://doi.org/10.11591/ijphs.v12i3.22298
8. Edward Agyemang, Kobina Esia-Donkoh, Addae Boateng Adu-Gyamfi, Juabie Bennin Douri, Prince Owusu Adoma, **Emmanuel Kusi Achampong** (2023). Assessing the efficient use of the lightwave health information management system for health service delivery in Ghana. *BMJ Health & Care Informatics*. https://doi.org/10.1136/bmjhci-2023-100769
9. Edward Agyemang, Addae Boateng Adu-Gyamfi, Kobina Esia-Donkoh, **Emmanuel Kusi Achampong** (2023). Effective use of electronic health records system for healthcare delivery in Ghana. *Frontiers in Health Informatics*. https://doi.org/10.30699/fhi.v12i0.510
10. **Emmanuel Kusi ACHAMPONG** (2022). Electronic Health Records Use in the Training of Medical Students in Ghana. *DOAJ (DOAJ: Directory of Open Access Journals)*.
11. **Emmanuel Kusi Achampong** (2022). Implementation of Electronic Health Record System in Ghana: A Review. *The Open Public Health Journal*. https://doi.org/10.2174/18749445-v15-e2208181
12. Jonathan Kissi, **Emmanuel Kusi Achampong**, Nathan Kumasenu Mensah, Caleb Annobil, Jessica Naa Lamptey (2022). Moving towards Digitising COVID-19 Vaccination Certificate: A Systematic Review of Literature. *Vaccines*. https://doi.org/10.3390/vaccines10122040
13. Evans Kofi Agbeno, Joseph Osarfo, Betty Anane-Fenin, **Emmanuel Kusi Achampong**, Naa Adei Neequaye, Douglas Aninng Opoku, Mohammed Aliyu, Sebastian Ken-Amoah, Anthony Amanfo Ofori, Joycelyn A. Ashong (2021). Attitudes and Practices of Healthcare Professionals and Clinical Medical Students on Contraception: A Cross-Sectional Study in Cape Coast, Ghana. *International Journal of Reproductive Medicine*. https://doi.org/10.1155/2021/6631790
14. Evans Kofi Agbeno, Joseph Osarfo, Anthony Amanfo Ofori, **Emmanuel Kusi Achampong**, Betty Akua Oparebea Anane-Fenin, Wisdom Klutse Azanu, Kwadwo Sarbeng, Emmanuel Senanu Komla Morhe (2020). Resolving unintended pregnancy crisis: Is adoption a viable option? A cross-sectional study in Kumasi, Ghana. *SAGE Open Medicine*. https://doi.org/10.1177/2050312120959181
15. **Emmanuel Kusi ACHAMPONG**, Tijani Mahamadu AZANGA, Evans Kofi AGBENO (2020). The Influence of Social Media on the Health Seeking Behaviour of University Students. *DOAJ (DOAJ: Directory of Open Access Journals)*.
16. **Achampong, Emmanuel Kusi**, Adzakpah, Godwin, RichardOkyere Boadu, Obed Owumborny ILasim, Opoku, Richard (2018). Newborn Health Data Transfer in the Cape Coast Metropolis, Ghana. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.3968109
17. Evans Kofi Agbeno, Emmanuel Morhe, **Emmanuel Kusi Achampong** (2018). Study of the Factors Leading to Unintended Pregnancy in Women in Kumasi, Ghana. *INRIA a CCSD electronic archive server*.
18. Gabriel Keney, **Emmanuel Kusi Achampong**, Nathaniel Ofori Attah Snr. (2018). The Effects of Mobile Phone Use in Clinical Practice in Cape Coast Teaching Hospital. *Online Journal of Public Health Informatics*. https://doi.org/10.5210/ojphi.v10i2.9333
19. **Emmanuel Kusi Achampong**, Godwin Adzakpah, Richard Okyere Boadu, Obed Owumbornyi Lasim (2018). The Quality of Newborn Data: Assessment of Data Management and Reporting System. *International Journal of Public Health Science (IJPHS)*. https://doi.org/10.11591/ijphs.v7i3.14386
20. **Emmanuel Kusi Achampong** (2017). A Retrospective Study of the Average Length of Hospital Stay of

Patients on the Wards in the Cape Coast Teaching Hospital. *International Journal of Business Innovation and Technology*. https://www.academia.edu/download/54883116/Average_Length_of_Hospital_Stay_of_Patients_on_the_Medical_Wards_in_the_Cape_Coast_Teaching_Hospital.pdf

21. **Emmanuel Kusi Achampong** (2017). Assessing the Current Curriculum of the Nursing and Midwifery Informatics Course at All Nursing and Midwifery Institutions in Ghana. *Journal of Medical Education and Curricular Development*. https://doi.org/10.1177/2382120517706890
22. **Emmanuel Kusi Achampong** (2017). Methodological Framework for Artefact Design and Development in Design Science Research. *Journal of Advances in Science and Technology Research*. https://www.researchgate.net/profile/Emmanuel-Achampong/publication/329775397_Methodological_Framework_for_Artefact_Design_and_Development_in_Design_Science_Research/links/5c1a2297458515a4c7e906fd/Methodological-Framework-for-Artefact-Design-and-Development-in-Design-Science-Research.pdf
23. **Emmanuel Kusi Achampong** (2017). New bachelor's degree programme in health information management in Ghana. *J Health Inform Manag 1*. https://ir.ucc.edu.gh/server/api/core/bitstreams/d4404edb-dcc1-42b5-85d4-2c80f06e96f4/content
24. **Emmanuel Kusi Achampong** (2016). Optimising Attribute-based Encryption to Secure Electronic Health Records System within a Cloud Computing Environment. *International Journal of Cloud-Computing and Super-Computing*. https://scholar.google.com/scholar?cluster=18123585238117846977&hl=en&oi=scholarr
25. **Emmanuel Kusi Achampong** (2016). Private Virtual Infrastructure for Security of Electronic Health Records in a Cloud Computing Environment. *International Journal of Business Innovation and Technology (IJBIT)*.
26. **Emmanuel Kusi Achampong** (2015). Attribute-based Encryption for Electronic Health Records in a Cloud Computing Environment. *International Journal of Cloud-Computing and Super-Computing*. https://www.researchgate.net/profile/Emmanuel-Achampong/publication/305325964_Attribute-based_Encryption_for_Electronic_Health_Records_in_a_Cloud_Computing_Environment/links/578fdf7a08ae64311c0c793c/Attribute-based-Encryption-for-Electronic-Health-Records-in-a-Cloud-Computing-Environment.pdf
27. **Emmanuel Kusi Achampong** (2015). Configuration of Access Control and Implicit Authentication Methods to Support Electronic Health Records Systems within a Cloud Computing Environment. *International Journal of Business Innovation and Technology (IJBIT)*.
28. **Achampong, Emmanuel Kusi**, Dzidonu, Clement (2015). Managing Access to Electronic Health Records in a Cloud Computing Environment. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.3968794
29. **Emmanuel Kusi Achampong** (2014). Electronic Health Record (EHR) and Cloud Security: The Current Issues. *International Journal of Cloud Computing and Services Science (IJ-CLOSER)*. https://doi.org/10.11591/closer.v2i6.5343
30. **Emmanuel Kusi Achampong** (2014). Readiness of Electronic Health Records for the Cloud Network. *Journal of Health & Medical Informatics*. https://doi.org/10.4172/2157-7420.1000e127
31. **Emmanuel Kusi Achampong** (2013). Institute of Advanced Engineering and Science. *Journal homepage: http://iaesjournal. com/online/index. php/IJ-CLOSER*. https://ir.ucc.edu.gh/server/api/core/bitstreams/099c7aee-802c-47c7-a74c-e22f7a4aa5f1/content
32. **Emmanuel Kusi Achampong** (2012). Electronic Health Record System: A Survey in Ghanaian Hospitals. *Journal of Health & Medical Informatics*. https://doi.org/10.4172/scientificreports.164
33. **Emmanuel Kusi Achampong** (2012). Gender difference in information and communication technology use among university students. *Journal of Information Technology and Application in Education*. https://www.researchgate.net/profile/Emmanuel-Achampong/publication/237065978_Gender_Difference_in_the_Use_of_ICT/links/0c96051b20b7a5edf6000000/Gender-Difference-in-the-Use-of-ICT.pdf
34. Kingsley KA Pereko, Jacob Setorglo, William B Owusu, Joyce M Tiweh, **Emmanuel K Achampong** (2012).

Overnutrition and associated factors among adults aged 20 years and above in fishing communities in the urban Cape Coast Metropolis, Ghana. *Public Health Nutrition*. https://doi.org/10.1017/s1368980012002698

35. **Emmanuel Kusi Achampong** (2012). The State of Information and Communication Technology and Health Informatics in Ghana. *Online Journal of Public Health Informatics*. https://doi.org/10.5210/ojphi.v4i2.4191

36. S Acquah, JN Boampong, **EK Achampong**, J Setorglo, D Obiri-Yeboah (2011). Lipid and lipoprotein levels in type 2 diabetes patients attending the Central Regional Hospital in the Cape Coast Metropolis of Ghana. *International Journal of Health Research*. https://www.ajol.info/index.php/ijhr/article/view/73865

37. **Emmanuel Kusi Achampong**, Kingsley Kwadwo Asare Pereko (2010). Computer Skills and the Training of Medical Students in a Ghanaian Medical School.