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| **\*CURRICULUM VITAE** |

**PERSONAL INFORMATION**

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**Position Senior Lecturer,** Department of Medical Diagnostics, Kwame Nkrumah University of Science and Technology (KNUST).

1. **EDUCATIONAL BACKGROUND AND ACADEMIC QUALIFICATIONS**

| INSTITUTION AND LOCATION | DEGREE  (if applicable) | DATES  MM/YYYY | FIELD OF STUDY |
| --- | --- | --- | --- |
| Kumasi Centre for Collaborative Research into Tropical Medicine  Kwame Nkrumah University of Science and  Technology (KNUST), Kumasi, Ghana  Kwame Nkrumah University of Science and  Technology (KNUST), Kumasi, Ghana  Kwame Nkrumah University of Science and  Technology (KNUST), Kumasi, Ghana | Postdoc  Fellowship  PhD  MPhil  BSc (Hons.) | 01/2015 -01/2017  08/2011 -06/2014  09/2007 -06/2010  10/2001 -06/2005 | Coronavirus as a proxy for viral zoonosis  Clinical Microbiology  Clinical Microbiology  Medical Laboratory Technology |

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| **Continuous Professional Developments** | **Awarding Institution** | **Dates Awarded** |
| Certificate in Good Clinical Laboratory Practice | The Global Health Network [ | May, 2021 |
| Certificate of Completion, African Research Excellence Fund | African Research Excellence Fund | February, 2020 |
| Certificate in metagenomics applied to surveillance of Pathogens and Antimicrobial Resistance | Technical University of Denmark | August, 2018 |
| Certificate Whole genome sequencing of bacterial genomes | Technical University of Denmark | April, 2018 |
| Certificate Bayesian Statistics | University of California, Santa Cruz | September, 2017 |
| Introduction to Genomic Technologies | John Hopkins University of Baltimore, USA | M arch, 2017 |
| Certificate in Advanced R Programming | John Hopkins University, Baltimore, USA | January, 2017 |
| Certificate in Interactive Programming in Python | Rice University, Texas, USA | November, 2016 |
| Certificate in Basic “R” for Epidemiology, Regression and Advanced Epidemiology Methods | Prince Songkla University, Thailand | May, 2016 |

1. **RESEARCH OR PROJECTS**
2. Research conducted (topics with dates)

These include:

1. **Lung Microbiota Changes in HIV infected children (2018 – 2021)**

The progression of HIV disease and its associated morbidity and mortality has decreased over the past decades. Inspite of the successes achieved, HIV infected children continue to suffer from severe pneumonia, most of which end up in death. I hypothesized that pneumonia cases occurring in HIV patients could be caused by complex groups of bacteria and viral pathogens which co-interact in causing diseases. This project sought to characterize the lung microbiome and Virome in HIV infected patients and their control groups. This is funded by the European Development and Countries Trials Partnership (EDCTP) with an amount of Euros 150,000 [ **Principal Investigator**]

1. **Respiratory Viruses in Cancer Patients (2019 – Present)**

Respiratory viruses are believed to contribute to morbidity and mortality of cancer patients. Information on the extent of distribution of viral pathogens in cancer patients is limited in Ghana. This study is therefore evaluating the role of viral pathogens in contributing to respiratory disease in various forms of cancer patients [**Principal Investigator**]

1. **Epidemiology, Characteristics and Post-Vaccine Immunological Responses to human coronaviruses and SARS-CoV-2 in Ghana** (**2020 – Present**)

The SARS-CoV-**2** continues to spread with an average infection rate of 2.5 – 3.0 across the world. SARS-CoV-2 is a novel pathogens which continue to evolve and display different characteristics and responses in different populations. The essence of this study is to describe and follow through the changing trends of SARS-CoV-2 in Ghana [**Principal Investigator**]

1. **Epidemiology and burden of typhoid in Africa** (**2018 – Present**)

Typhoid is one of the bacteria pathogens which is heavily associated with severe disease and complications in humans. The burden and extent of spread is not well described in Ghana. The study aims to describe the burden of typhoid and also conduct phase-III and Phase IV clinical trials of potential vaccines. The study is supported by the Bill and Melinda Gates Foundation with over **2 million dollars [Co-Investigator]**

1. **Mobile Technology in Detecting Childhood Infections (2018- Present)**

The use of mobile phones has increased access to a number of services including communication, business transaction and healthcare. With the growing access to mobile phones in developing countries and remote areas, researchers have been exploring the possible use of artificial intelligence to predict disease occurrence and diagnosis through mobile phone application. The aim of this study is to investigate the use of mobile phones configured algorithms for predicting fever and diarrhoeal diseases among children below 5-years. The study is sponsored by the International Development Research Centre (IDRC), Canada with a total of **818 CAD** [**Co-investigator**].

1. **Contributions to book publications**
2. National SARS-CoV-2 Laboratory Training Manual, Republic of Ghana, Ministry of Health and Ghana Health Service, 2021
3. National Guidelines, Standard Operating Procedures And Job Aids for the Diagnosis of SARS-CoV-2, Republic of Ghana, Ministry of Health, 2021
4. Tools for effective Research Communication written by Linda Batsa Debrah, Augustina Angelina Sylverken, **Michael Owusu** and Kingsley Badu ISBN 978- 9988-2-8487-9, 2020
5. National Guidelines for Laboratory Testing and Reporting on Respiratory Infectious Diseases in Health Facilities in Ghana, Republic of Ghana, Ministry of Health, July, 2020
6. **List of all publications with exact references**
7. User experiences of a mobile phone-based health information and surveillance system (mHISS): A case of caregivers of children under-five in rural communities in Ghana. Acquah-Gyan Emmanuel, Acheampong Princess Ruhama, Mohammed Aliyu, Adjei Timothy Kwabena, Agyapong Emmanuel, Twumasi-Ankrah Sampson, Sylverken Augustina, **Owusu Michael**, Owusu-Dabo Ellis. Plos one, 2022, Vol 17, Issue 1, e0261806.
8. Effect of pulmonary tuberculosis on natural anticoagulant activity in therapy-naïve Ghanaian adults; a case-control study. Osei-Boakye Felix, Addai-Mensah Otchere, **Owusu Michael**, Saasi Abdul-Razak, Appiah Samuel Kwasi, Nkansah Charles, Wiafe Yaw Amo, Debrah Alexander Yaw. Journal of Immunoassay and Immunochemistry, 2022, 17-Jan.
9. Surveillance and laboratory collaboration in response to an outbreak of Vibrio parahaemolyticus, Plesiomonas shigelloides, and Aeromonas hydrophila in Sekondi-Takoradi, Ghana: a case series. **Owusu Michael**, Nkrumah Bernard, Mensah Ebenezer Kofi, Lamptey Jones, Acheampong Godfred, Sambian David, Sylverken Augustina, Emery Shannon, Robinson Lucy Maryogo, Sefa Solomon Asante. Journal of Medical Case Reports, 2022, Vol 16, Issue 1, 5-Jan.
10. Low risk of SARS-CoV-2 in blood transfusion. **Michael Owusu**, Augustina Angelina Sylverken, Philip El-Duah, Nana Kwame Ayisi-Boateng, Richmond Yeboah, Eric Adu, Jesse Asamoah, Michael Frimpong, Japhet Senyo, Godfred Acheampong, Mohamed Mutocheluh, John Amuasi, Ellis Owusu-Dabo, Yaw Adu-Sarkodie, Richard Odame Phillips. Plos one, 2021, Vol 16, Issue 4, e0249069.
11. Transmission of SARS-CoV-2 in northern Ghana: insights from whole-genome sequencing. Augustina Angelina Sylverken, Philip El-Duah, **Michael Owusu**, Julia Schneider, Richmond Yeboah, Nana Kwame Ayisi-Boateng, Richmond Gorman, Eric Adu, Alexander Kwarteng, Michael Frimpong, Tabea Binger, Sherihane Aryeetey, Jesse Addo Asamoah, Yaw Ampem Amoako, John Humphrey Amuasi, Jörn Beheim-Schwarzbach, Ellis Owusu-Dabo, Yaw Adu-Sarkodie, Kwasi Obiri-Danso, Victor Max Corman, Christian Drosten, Richard Phillips. Archives of virology, 2021, Vol 166, Issue 5, Pages 1385 – 1393.
12. Genomic and epidemiological characteristics of SARS-CoV-2 in Africa. Jones Lamptey, Favour Oluwapelumi Oyelami, **Michael Owusu**, Bernard Nkrumah, Paul Oluwagbenga Idowu, Enoch Appiah Adu-Gyamfi, Armin Czika, Philip El-Duah, Richmond Yeboah, Augustina Sylverken, Oluwatayo Israel Olasunkanmi, Ellis Owusu-Dabo, Christian Drosten, Yaw Adu-Sarkodie. PLOS Neglected Tropical Diseases, 2021, Vol 15, Issue 4, Pages e0009335.
13. A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. Wilkinson Eduan, Giovanetti Marta, Tegally Houriiyah, San James E, Lessells Richard, Cuadros Diego, Martin Darren P, Rasmussen David A, Zekri Abdel-Rahman N, Sangare Abdoul K. Science, 2021, Vol 374, Issue 6566, Pages 423-431.
14. Sero-epidemiology of human coronaviruses in three rural communities in Ghana. **Owusu Michael**, Sylverken Augustina Angelina, El-Duah Philip, Acheampong Godfred, Mutocheluh Mohammed, Adu-Sarkodie Yaw. The Pan African Medical Journal, 2021, Vol 38.
15. The burden of drug resistance tuberculosis in Ghana; results of the First National Survey. Sylverken Augustina Angelina, Kwarteng Alexander, Twumasi-Ankrah Sampson, **Owusu Michael**, Arthur Rejoice Agyeiwaa, Dumevi Rexford Mawunyo, Adu-Amoah Louis, Addofoh Nicholas, Okyere Portia Boakye, Dzata Francisca. PloS one, 2021, Vol 16, Issue 6, e0252819.
16. Sero-molecular epidemiology of hepatitis E virus in pigs and human contacts in Ghana. Yeboah Richmond, Sylverken Augustina Angelina, **Owusu Michael**, El-Duah Philip, Burimuah Vitus, Frimpong Yaw, Lamptey Jones, Eckerle Isabella, Meyer Benjamin, Antwi Christopher. One Health Outlook, 2021, Vol 3, Issue 1, 11-Jan.
17. Common bacteria in sputum or gastric lavage of patients presenting with signs and symptoms of lower respiratory tract infections. Deberu Oliver, Nkrumah Bernard, Sylverken Augustina Angelina, Sambian David, Acheampong Godfred, Amuasi John, Stebleson Azure, Agboyie Daron, Yenbaree Monica, Mensah Sylvester, **Owusu M**. The Pan African Medical Journal, 2021, Vol 38.
18. Evidence of chikungunya virus infections among febrile patients at three secondary health facilities in the Ashanti and the Bono Regions of Ghana. Adusei Jonathan Akwasi, Narkwa Patrick Williams, **Owusu Michael**, Domfeh Seth Agyei, Alhassan Mahmood, Appau Emmanuel, Salam Alimatu, Mutocheluh Mohamed. PLoS neglected tropical diseases, 2021, Vol 15, Issue 8, e0009735.
19. Microbiological profile of asymptomatic bacteriuria in pregnant women in Volta Region, Ghana. Ahiatrogah Dzifa Kofi, Annan Jude John, Ofori Linda Aurelia, Awudzi Benedict, Owusu-Ofori Alex, **Owusu Michael**, Sylverken Augustina Angelina. Journal of Microbiology and Antimicrobials, 2021, Journal of Microbiology and Antimicrobials, Vol 13, Issue 2, Pages 27-36.
20. Performance of COVID-19 associated symptoms and temperature checking as a screening tool for SARS-CoV-2 infection. Nuertey Benjamin Demah, Ekremet Kwame, Haidallah Abdul-Rashid, Mumuni Kareem, Addai Joyce, Attibu Rosemary Ivy E, Damah Michael C, Duorinaa Elvis, Seidu Anwar Sadat, Adongo Victor C, **Michael Owusu**, Augustinna Sylveken, Richard Phillips. PloS one, 2021, Vol 16, Issue 9, e0257450.
21. Estimating the incidence of typhoidal Salmonella from cross-sectional serology using antibody dynamics following infection. Aiemjoy Kristen, Seidman Jessica C, Saha Senjuti, Munira Sira Jam, Sajib Mohammad Saiful Islam, Al Sium Syed Muktadir, Sarkar Anik, Alam Nusrat, Jahan Farha Nusrat, Kabir Md Shakiul, **Michael Owusu et al** medRxiv, 2021.
22. Rabies is still a fatal but neglected disease: a case report. Amoako YA, El-Duah P, Sylverken AA, **Owusu M**, Yeboah R, Gorman R, Adade T, Bonney J, Tasiame W, Nyarko-Jectey K. Journal of Medical Case Reports, 2021, Vol 15, Issue 1, 6-Jan.
23. Incidence of non-typhoidal Salmonella invasive disease: A systematic review and meta-analysis. Marchello Christian S, Fiorino Fabio, Pettini Elena, Crump John A, Martin Laura B, Breghi Gianluca, Canals Rocio, Gordon Melita A, Hanumunthadu Brama, Jacobs Jan. Journal of Infection, 2021, Vol 83, Issue 5, Pages 523-532.
24. Forecasting COVID-19 Confirmed Cases in Ghana: A Model Selection Approach. Twumasi-Ankrah Sampson, **Owusu Michael**, Appiah Simon Kojo, Pels Wilhemina Adoma, Arthur Doris. Traektoriâ Nauki, Path of Science, 2021, Vol 7, Issue 2, Pages 4001-4010.
25. Determinants of a mobile phone-based Interactive Voice Response (mIVR) system for monitoring childhood illnesses in a rural district of Ghana: Empirical evidence from the UTAUT model. Adjei Timothy Kwabena, Mohammed Aliyu, Acheampong Princess Ruhama, Acquah-Gyan Emmanuel, Sylverken Augustina, Twumasi-Ankrah Sampson, **Owusu Michael**, Owusu-Dabo Ellis. PloS one, 2021, Vol 16, Issue 3, e0248363.
26. Evaluation of Typhoid Conjugate Vaccine Effectiveness in Ghana (TyVEGHA) Using a Cluster-Randomized Controlled Phase IV Trial: Trial Design and Population Baseline Characteristics. Haselbeck Andrea Haekyung, Tadesse Birkneh Tilahun, Park Juyeon, Gibani Malick M, Espinoza Ligia María Cruz, Abreu Ariane, Van Rensburg Craig, Owusu-Ansah Michael, Twuamsi-Ankrah Sampson, **Owusu Michael**. Vaccines, 2021, Vol 9, Issue 3, Pages 281.
27. Improved detection of microbiological pathogens: role of partner and non-governmental organizations. **Owusu Michael**, Nkrumah Bernard, Acheampong Godfred, Mensah Ebenezer Kofi, Komei Abass Abdul-Karim, Sroda Festus Kofi, David Sambian, Emery Shannon, Robinson Lucy Maryogo, Asante Kwame. BMC Infectious Diseases, 2021, Vol 21, Issue 1, 13-Jan.
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30. Profile and outcomes of hospitalized patients with COVID-19 at a tertiary institution hospital in Ghana. Nana K Ayisi-Boateng, **Michael Owusu**, Phyllis Tawiah, Brenda A Ampah, Augustina A Sylverken, Osei K Wusu-Ansah, Fred S Sarfo, Richard O Phillips. Ghana Medical Journal, 2020, Vol 54, Issue 4s, Page 39-45.
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33. Effect of Pulmonary Tuberculosis on Protein C, S, and Antithrombin-III among Therapy-naïve Ghanaian Adults; A Comparative Cross-Sectional Study. Osei-Boakye Felix, Addai-Mensah Otchere, **Owusu Michael**, Saasi Abdul-Razak, Appiah Samuel Kwasi, Nkansah Charles, Wiafe Yaw Amo, Debrah Alexander Yaw. 2020.
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36. Molecular-based cross-species evaluation of bovine coronavirus infection in cattle, sheep and goats in Ghana. Vitus Burimuah, Augustina Sylverken, **Michael Owusu**, Philip El-Duah, Richmond Yeboah, Jones Lamptey, Yaw Oppong Frimpong, Olivia Agbenyega, Raphael Folitse, Ben Emikpe, William Tasiame, Eddie-Williams Owiredu, Samuel Oppong, Christopher Antwi, Yaw Adu-Sarkodie, Christian Drosten. BMC Veterinary Research, Vol 16, Issue 1, page 1-7. DOI: [10.1186/s12917-020-02606-x](https://doi.org/10.1186/s12917-020-02606-x" \t "_blank)
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41. Identification of multidrug-resistant *salmonella* plasmid variants using polymerase chain reaction (PCR) based replicon typing technique in Ghana. Ellis Owusu-Dabo, Godfred Acheampong, **Michael Owusu**, Alex Owusu-Ofori Isaac Osei, Nimako Sarpong, Se Eun Park, Florian Marks, *Africa Health Agenda International Journal. 2019;1:6*
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