



# Curriculum Vitae

Richard Osei AGJEI

Department of Health Administration and Education,

University of Education,

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Date of birth: 9<sup>th</sup> February 1979

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## **Areas of Expertise or Professional Skills:**

I have a profound interest in social epidemiology research. Over the last decade, I have researched emotions (fear, anxiety, depression) and suicidal behaviors and undertaken public health research as a postgraduate and doctoral student in Africa, Finland, and the UK. Furthermore, having updated my Public Health and Global Health knowledge at Imperial College-London, I garnered invaluable skills and interest in using large epidemiological datasets using R, STATA, and Structural equation modeling for public health research, especially with large quantitative datasets. My background has modestly strengthened my interest in data-driven epidemiological research, biostatistics, studies on emotions, environmental health (risk assessment, pollution, and its health effects), bibliometric analysis, and meta-analysis of health-related topics research. As a qualified professional teacher in Finland and the UK, I am also interested in educational research, especially student assessment and performance, and using learning management systems to improve student performance in teaching and learning. Ultimately, I am interested in public health, educational, and translational research studies that will provide new information and insights that will help improve public health, education, and environmental health.

**Professional Qualification(s):**

<i>Rank</i>	<i>Supporting evidence</i>	<i>Period</i>
Post Graduate Diploma	Postgraduate Diploma in Teaching and Learning in Higher Education (PGDTLHE) University of Education Winneba, Ghana	10/02/2022-Date
Post-Graduate Certificate in Education Professional Certified Teacher in Finland	Master in Post-Graduate Certificate in Education for Higher level of teaching and learning. Haaga-Helia University of Applied Sciences, Pasila-Finland	07/05/2017– 08/05/2018
Qualify Teacher Status (QTS); Professional Certified Teacher in United Kingdom	Department for Education: <a href="https://teacherservices.education.gov.uk/">https://teacherservices.education.gov.uk/</a>	12/06/2018

**Professional Responsibilities:**

<i>Position</i>	<i>Office/Location</i>	<i>Period</i>
Lecturer	Department of Health Administration and Education, Faculty of Science Education, South Campus Room 204	01/01/2022-Date
Research Associate	The Institute for Educational Research and Innovation Studies (IERIS)	30/04/2022-Date
Member	The Institute for Educational Research and Innovation Studies (IERIS) Consultancy Team	15/12/2022-Date

**Education:**

<i>Qualification/Certificate obtained</i>	<i>Name of Institution Attended</i>	<i>Date</i>
Ph.D. Public Health (Epidemiology)	University of Central Nicaragua, Nicaragua	15/06/2016-28/06/2019



**Research Assistant: 2010-2011** University of Cape Coast 01/06/2010-10/05/2011  
o Taught undergraduate courses and graded examinations.  
o Supervised students and handled tutorials.

**Science and Mathematics Tutor-** St. Micheal Junior High 01/01/2000–01/09/2003  
Teaching of Science and School,  
Mathematics. Tema.

**Science and Mathematics Tutor-** Leonardo Junior High School, 30/03/2004–01/02/2006  
Teaching, class teacher and Tema.  
examination officer

### **Publications, Research/Projects Conducted or Undertaken, Creative Works/Productions Produced:**

- Agjei, R.O.**, Adusei-Mensah, Frank; Oluwafemi, Samson Balogun, Olaleye, Sunday (2023). The Bibliometric Global Overview of COVID-19 Vaccination; Intelligent Systems Design and Applications, Springer
- Agjei, R.O.**, Sunday Adewale Olaleye, Frank Adusei-Mensah and Oluwafemi Samson Balogun (2023). The emotional job-stress of COVID-19 on Nurses working in isolation centres: A machine learning approach; Intelligent Systems Design and Applications, Springer
- Adewale, S.O., Balogun, S.O., Adusei-Mensah, F., **Agjei, R. O.**, Toluwalase Janet Akingbagde (2022). The drivers and inhibitors of COVID-19 vaccinations: A descriptive approach; Intelligent Systems Design and Applications, Springer (with Press)
- Ukpabi, D., **Agjei, R. O.**, & Mengo, N. (2022). Digital technologies and remote teaching during COVID-19 pandemic in African higher education institutions. In Teaching and Learning with Digital Technologies in Higher Education Institutions in Africa (pp. 27-40). Routledge Taylor and Francis
- Ankudze, B., Doreen, A., Neglo, D., **Agjei, R.**, & Asamoah, B. D. (2022). Antioxidant and Antimicrobial Synergistic Properties of Silver Nanoparticles Synthesized with Leaf extract of Pennisetum purpureum. International Journal of Nanoscience, 21(5), 2250038.
- Kolog, E. A., Balogun, O. S., **Agjei, R. O.**, Devine, S. N. O., Atsa'am, D. D., Dada, O. A., & Omotehinwa, T. O. (2022). Predictive Model for Early Detection of Mother's Mode of Delivery with Feature Selection. In Delivering Distinctive Value in Emerging Economies (pp. 241-264). Productivity Press.
- Nyambah, P.K., **Agjei, R.O.**, Sarfo, B (2022). Prevalence of Hepatitis B virus infection is associated with male circumcision among Senior High School students in the Krachi Nchumuru district in the Oti Region of Ghana: A cross-sectional study
- Agjei, R.O.**, Adewale, S.O., Jimoh, F.B, Adoma, P.O (2022). Evaluation of usability in Moodle Learning Management System through Analytics Graphs: University of Applied Sciences Teacher's perspective in Finland. (With editor-in-chief).

- Olaleye, S. A., Ukpabi, D. C., Olawumi, O., Atsa'am, D. D., **Agjei, R. O.**, Oyelere, S. S., ... & Kolog, E. A. (2022). Association rule mining for job seekers' profiles based on personality traits and Facebook usage. *International Journal of Business Information Systems*, 40(3), 299-326.
- Olaleye, S. A., Olawumi, O., **Agjei, R.**, & Sanusi, I. T. (2022). Mobile Banking App as a Medium of Engagement for Customers in a Developing Country. *The Journal of Developing Areas*, 56(1), 1-30.
- Atsa'am, Donald & Kolog, Emmanuel & Omotehinwa, Temidayo Oluwatosin & Devine, Samuel & Dada, Oluwaseun & Akingbade, Toluwalase & **Agjei, Richard** & Balogun, Oluwafemi. (2022). COVID-19: Extracting the Pattern of Morbidity and Mortality Among Countries in the African Region. 10.1007/978-3-030-77987-0\_15.
- Olaleye, Sunday & Olawumi, Olayemi & **Agjei, Richard** & Sanusi, Ismaila. (2022). Mobile Banking App as a Medium of Engagement for Customers in a Developing Country. *The Journal of Developing Areas*. 56. 1-30. 10.1353/jda.2022.0007.
- Atsa'am, Donald & Balogun, Oluwafemi & **Agjei, Richard** & Devine, Samuel & Akingbade, Toluwalase & Omotehinwa, Temidayo Oluwatosin. (2021). A Model for Predicting the Class of Illicit Drug Suspects and Offenders. *Journal of Drug Issues*. 1-14. 10.1177/00220426211049358.
- Adusei-Mensah, Frank & **Agjei, Richard** & Awoniyi, Luqman & David, Lekpa & Awoniyi, Fatima & Adeyemi, Oluwafikayo & Olawuni, Adedayo & Adegbite, Ayobami. (2021). Prevention and Control of Acute Respiratory Viral Infections in Adult Population: A Systematic Review and Meta-Analysis on Ginseng-Based Clinical Trials. 10.1101/2021.07.23.21260970.
- Olawumi, Olayemi & Olaleye, Sunday & Adusei-Mensah, Frank & Olawuni, Adedayo & **Agjei, Richard**. (2021). Adoption and implementation of electronic healthcare management system -a bibliometric approach. *International Journal of Electronic Healthcare*. 12. 10.1504/IJEH.2022.119583.
- Olaleye, Sunday & Dada, Oluwaseun & Kuika Watat, Josue & **Agjei, Richard**. (2021). Stigma of Covid-19 On Economic Activities: A Case Study Of Shein In Mexico.
- Olaleye, Sunday & Sanusi, Ismaila & **Agjei, Richard** & Adusei-Mensah, Frank. (2021). Please call my contact person: mobile devices for a rescue mission during an emergency. *Information Discovery and Delivery*. ahead-of-print. 10.1108/IDD-06-2020-0064.
- Ukpabi, Dandison & Olawumi, Olayemi & Balogun, Oluwafemi & Nwachukwu, Chijioke & Olaleye, Sunday & Kolog, Emmanuel & **Agjei, Richard** & Adusei-Mensah, Frank & Awoniyi, Luqman & Atsa'am, Donald & Adeyemi, Oluwafikayo. (2021). Unemployment, Personality Traits, and the Use of Facebook: Does Online Social Support Influence Continuous Use?. *International Journal of E-Adoption*. 13. 56-72. 10.4018/IJEA.2021010104.
- Balogun, Oluwafemi & Atsa'am, Donald & Akingbade, Toluwalase & Kolog, Emmanuel & **Agjei, Richard** & Devine, Samuel. (2020). Modeling the Effect of Mother's Characteristics on the Weight of a Newborn. *International Journal of Childbirth*. 10. 206-216. 10.1891/IJCBIRTH-D-20-00024.
- Balogun, Oluwafemi & Olaleye, Sunday & **Agjei, Richard** & Adusei, Akwasi. (2020). Data Analytics: An Exploration of Quality Control to Determine Students' Academic Performance.

- Friday Joseph, Agbo & Olawumi, Olayemi & Olaleye, Sunday & Kolog, Emmanuel & Oyelere, Solomon & **Agjei, Richard** & Ukpabi, Dandison & Yunusa, Abdullahi & Gbadegeshin, Saheed Adebayo & Awoniyi, Luqman & Erinle, Kehinde & Mogaji, Emmanuel & Duabari, Aziaka & Nwachukwu, Chijioke & Olawuni, Adedayo. (2020). Social Media Usage for Computing Education: The Effect of Tie Strength and Group Communication on Perceived Learning Outcome. *The International Journal of Education and Development using Information and Communication Technology*. 16. 5-26.
- Kolog, Emmanuel & Devine, Samuel & Ansong-Gyimah, Kwame & **Agjei, Richard**. (2019). Fine-Grained Affect Detection in Learners' Generated Content Using Machine Learning-Based Application. *Education and Information Technologies*. 10.1007/s10639-019-09948-6.
- Olaleye, Sunday & **Agjei, Richard** & Kolog, Emmanuel & Budu, Joseph. (2019). Effect of Gratification, Utilitarian, and Trust Elements on the Use of Retail Mobile Banking App in Africa: A Comparative Study. 10.1109/AFRICON46755.2019.9133874.
- Adusei-Mensah, Frank & Essumang, David & **Agjei, Richard** & Kauhanen, Jussi & Tikkanen-Kaukanen, Carina & Ekor, Martins. (2019). Heavy metal content and health risk assessment of commonly patronized herbal medicinal preparations from the Kumasi metropolis of Ghana. *Journal of Environmental Health Science and Engineering*. 10.1007/s40201-019-00373-y.
- Agjei, Richard** & Kolog, Emmanuel & Dei, Daniel & Tengey, Juliet Yayra. (2018). Emotional Impact of Suicide on Active Witnesses: Predicting with Machine Learning. *Advances in Science, Technology and Engineering Systems Journal*. 3. 10.25046/aj030557.
- Koranteng - Addo, Epton & Owusu-Ansah, E & Boamponsem, L & Koka, Joseph & **Agjei, Richard**. (2010). Analyses of lead and zinc levels in human scalp hair in occupationally exposed workers in Cape Coast, Ghana. 384-391.

#### **Professional Development:**

Training Sessions:

<i>Course Title</i>	<i>Location</i>	<i>Period</i>
Clinical Management of HIV	University of Washington (online)	04/2019-06/2019
Introduction to Epidemiology in Global Health	University of Washington (online)	01/2018-05/2018
Leadership and Management in Health	University of Washington (online)	09/2017-12/2017

#### **Seminars and Workshops:**

<i>Course Title</i>	<i>Location</i>	<i>Period</i>
Workshop on Grantsmanship and Project Management by the Institute for Educational Research and Innovation Studies (IERIS-UEW)	IERIS Conference room Winneba, Ghana.	22 <sup>nd</sup> -23 <sup>rd</sup> September 2022

Systematic reviews & meta-analysis A week-long 40 hours of course work, lectures, analysis of case studies, and group projects	Sweden (online)	25th-29th July 2022
Introduction to Psychology	Yale (online)	October 14 <sup>th</sup> to October 25 <sup>th</sup> , 2020
Introduction to Data Science in Python	DataCamp, Imperial College (online)	October 1-13, 2020
Strategic management (master level) South-Eastern Finland University of Applied Sciences	XAMK University of South-Eastern Finland (UAS)	8 <sup>th</sup> February to 9 <sup>th</sup> March, 2020
Meta-Analysis Concepts and Applications	Presented by Biostatistics London, UK	October 22-24, 2018

**Conference(s):**

<i>Name of Conference</i>	<i>Location</i>	<i>Presentations (if any)</i>	<i>Period</i>
22 <sup>nd</sup> International Conference on Intelligent Systems Design and Applications	Auburn Washington, USA (online)	<b>Presented:</b> The Bibliometric Global Overview of COVID-19 Vaccination	December 12-13, 2022
22 <sup>nd</sup> International Conference on Intelligent Systems Design and Applications	Auburn Washington, USA (online)	<b>Presented:</b> The emotional job-stress of Covid-19 on nurses working in isolation centres: A machine learning approach	December 12-13, 2022

First Mental Health Authority International Conference on mental health and wellness research in Ghana: supporting a paradigm shift

ISSER, University of Ghana, Legon

**Presented:** Examining the predictive value of demographic factors on treatment response: Evidence from the UK Improving Access to Psychological Therapies

October 27-28, 2022

**Curriculum Development:** Give a brief description of the course or instructional material. Invited or professional presentations, lectures, etc. Provide a list of the professional areas you write on, investigate, offer services/talks/education, etc. and the level(s) at which the course is taught or the instructional material is used. Co-developers should be named

<i>Course or instructional material</i>	<i>Period</i>
HADE 115: Introduction to Epidemiology	2021/2022
HADE 351: Research Methods in Health Administration	2021/2022
HADE 243 Global Health Issues	2021/2022
HADE 244 Operations Management	2021/2022

**Curriculum Development:**

**HADE 115: Introduction to Epidemiology**

This course is designed to equip students with the skills to link epidemiological theory to population health and therapy and apply in health service and decision making. The course covers the essential knowledge that health service managers and planners need, concerning epidemiology and population health. It is to enable students to apply the analytical strategies of epidemiology to health service environment and be able to assess, interpret and carefully evaluate the quality of evidence of health service studies. The course will also provide students with an opportunity to calculate and interpret measures of disease frequency, morbidity, and their impact.



## **HADE 351: Research Methods in Health Administration**

The Research methods has been put together to impart the necessary skills and knowledge required to undertake a thesis and research project at the bachelor's level.

1. **Research Methods 1: The Research Question:** Student will learn how to develop a clear, focused, and feasible research question relevant to Health Administration and Education. And also learn how to conduct background and a supporting literature review. Additionally, they will learn how to conduct a systematic review and the main differences between a systematic and literature review. By the end of the section, students will develop their research project's research question and familiarize themselves with the relevant background literature.
2. **Research Methods 2: The Study Design:** Will learn about the different methods and methodologies that could be utilized to answer a specific research question chosen by them. These involve the use of quantitative methods (secondary and primary data for analysis), qualitative method (e.g., thematic analysis), survey design and mixed methods. They will develop their methodology (if applicable) by writing a research proposal for your tentative research project.
3. **Research Methods 3: Core Research Skills:** They will learn about the practical aspects of research including research ethics, plagiarism, data management, and public involvement.
4. **Research Methods 4: Research in Practice:** Based on their learning from the previous lessons, they should be able to conduct a research project including data collection (if applicable), data analysis and dissemination. By the end of the course, they will have completed their research project, with the summative assessments being approximately a 2000-word Academic writing and a 5-minute vlog describing their project to a lay audience.

Access key international health resources

## **HADE 243: Global Health Issues**

This course is designed to equip students with the skills to identify the major forces that influence the health of individuals and populations around the world, articulate an understanding of the complexity of global health issues, especially in low-resource settings, identify the risk factors that affect disease burden. And also to articulate the role of CPH nurses as advocates for improving the health of patients and populations in their communities and around the world, discuss the epidemiological transition, identify the Top Ten Best Buys of Public Health, identify key International, Intergovernmental and Non-governmental Agencies engaged in global health efforts and Discuss the eight Millennium Development goals and the 17 sustainable development goals.

## **HADE244: Operations Management**

When students complete this chapter, they should be able to:

Define operations management, identify the 10 strategic decisions of operations management, identify career opportunities in operations management and explain the distinction between goods and services.

Define mission and strategy

Identify and explain three strategic approaches to competitive advantage, understand the significant key success factors and core competencies use factor rating to evaluate both country and outsource providers, identify and explain four global operations strategy options

**Student Development:** Activities other than teaching and thesis/project supervision such as academic counseling, involvement in student organization(s) and other notable lecturer-student development activities. Provide the number of students advised per year or semester, the length of time spent on advising per week, mention student organization(s) and the role or nature of involvement like project development, research, publications, etc. which have not been reported under other sections.

### **Mentorship**

*Area(s) of Development*

*Number of Staff Mentored*

#### **Membership of Professional Association(s):**

<i>Name of Association</i>	<i>Position held (if applicable)</i>	<i>Period</i>
Ghana Science Association	Member	08/10/2007 to Date
University Teachers Association of Ghana	Member	11/01/2022 to Date
Ghana Association of Science Teachers	Member	09/10/2004 to 13/02/2006

**Institutional Service:** List the Committee(s) and/or Board(s) you have been a member of. You may in a sentence or two outline the nature and scope of work.

<i>Name of Committee(s) and/or Board(s) Position or role</i>	<i>Period</i>
Contributed as member of accreditation application committee for new programmes 1. BSc. Public Health and Education-UEW 2. MPhil. Public Health and Education-UEW 3. MSc. and MPhil. Public Health and Education-UEW 4. BSc. Health Promotion and Education-UEW	March 2022-Date
Assisted in the application of funding or call for proposals for the Department of Health Administration and Education of the Faculty of Science-UEW by applying for a 5-million-dollar HIV call for proposal with the University of Ghana, Kwame Nkrumah University of Science and Technology and two international universities in Finland and Sweden. And other similar applications	1/10/2022 to Date

**Community Service:** You may indicate the nature of the service rendered.

*Name of Institution/Organisation Position(s) held (if applicable) Period*

**Professional Service or Consultancy outside the University:**

Chairman of the board of Director of Value Your Health Foundation (VYHF) whose head quarters is in the Effutu Municipalities. Acted as the chairman of the just celebrated WORLD AIDS DAY (1<sup>st</sup> December) and presented to about **2000** participants on the topic: Stop Stigma! End Aids! And perfectly supervised a well organised screening process.

Presentation at radio Windy Bay on Ghana Science Association on its membership, mandate, members roles and responsibilities as well as benefits associated to membership.

Made a presentation at the Health Administration and Education Student Association (HAESA) on behalf of my Head of Department.

Currently the Patron of Health Administration and Education Student Association (HAESA). Responsible for guiding them organise different health walks, cleaning exercises, career seminars, health talks, entrepreneurship, relationships, and money management.

*Name of institution/client Period of service Office/position held*

**Grants, Honours, Awards, Prizes or Professional Recognition and other Key**

**Accomplishments:** Provide one or two sentences to describe the nature and significance of the award or achievement

*Name/Type of Award Awarding Institution or Organisation Period*

ERASMUS+ 07/2022-07/2024  
Approximately 500  
euros Virtual  
exchange funding

Finish Government University of Eastern Finland, Jeonsuu 01/09/2011-18/02/2013  
Scholarship

**Referees:**

- **Prof. Victor ANTWI (Dean)**  
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University of Education, Winneba.  
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- **Prof. Kofi Essumang**  
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- **Prof. Charles K. Assuah**  
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Richard Osei Agjei

20/12/2022