

JAMES ARMO

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PROFILE STATEMENT

Dedicated diagnostic radiographer with a passion for patient care and academic research. Expertise in a wide range of imaging modalities, including plain film, fluoroscopy, CT, and MRI. Experienced in providing preliminary reporting. Approach patient with high professionalism and ethics. Proven ability to work independently and as part of a team to deliver high-quality diagnostic services. Committed to lifelong learning and professional development. Actively engaged in research to improve diagnostic imaging techniques and patient outcomes.

RESEARCH INTEREST

Neuroradiology
Magnetic Resonance Imaging
Oncology
Radiation Protection
Medical Physics (MRI)
Artificial Intelligence in Medical Imaging
Healthcare Diversity, Equity, and Inclusion

EDUCATION

BSc Diagnostic Imaging	November, 2023
University of Health and Allied Sciences	
Committees: Federation of Ghana Medical Imaging Students' Association, Society of Medical Imaging Students, Red Cross Society, The Smart Hub, TESCON-UHAS	
Cert General Science	May, 2018
St. Mary's Boys' Senior High School	
West Africa Secondary School Certificate Examination	
Committees: Red Cross Society, National Science and Maths Quiz Club, Debate Society	

RESEARCH AND TEACHING EXPERIENCE

Building a hybrid model with BraTS21 and BraTS23 for improved brain tumor segmentation.	May, 2024-Present
From BraTS-Africa BrainHack Challenge 2024	
The Sprint AI Training for African Medical Imaging	
Knowledge Translation (SPARK) Academy	

Objective

- To create a solution that significantly advances brain tumor segmentation, that will improve diagnostic accuracy and patient outcomes

Approach

- BraTS21 (Swin UNETR): Utilizing Swin transformers for semantic segmentation on brain tumors, we aim to harness its novelty and robust performance.
- BraTS23 (Enhanced Synthetic Data Augmentation): Incorporating advanced data augmentation techniques and modeling symbols to enhance our segmentation capabilities.

Teaching Assistant

January, 2024-Present

Klintapps College of Health and Allied Sciences

- Educating undergraduate radiography students on brain scan techniques and reporting

Research Assistant

January, 2024-Present

Department of Medical Imaging

Klintapps College of Health and Allied Sciences

- Perform literature searches and data analysis
- Works on Neuro, MSK, and AI research

Principal Investigator , Undergraduate

January, 2023-October, 2023

Department of Medical Imaging,

University of Health and Allied Sciences, Ghana

Assessing the Prevalence and Awareness of Musculoskeletal Disorders among Radiographers and Sonographers in Ghana

Supervisor: Mr. Bright Ofori-Manteaw

- Wrote a proposal for ethical approval
- Prepared a semi-structured open and closed ended questionnaire using Google form
- Tested the validity of the questionnaire
- Performed both descriptive and inferential statistics using the data collected
- Prepared the research project for submission

Research Group Leader

January, 2021-March, 2021

University of Health and Allied Sciences, Ghana

Assessing the importance of patient communication to healthcare delivery in the radiology department

Supervisor: Dr. Emmanuel Dziwornu

- Interviewed 100 patients who consented to partake in the study
- Prepared excel sheet for the data collected
- Analyzed the data using SPSS v. 23.0

PROFESSIONAL EXPERIENCE

Radiographer. Internship

November, 2023-Present

Komfo Anokye Teaching Hospital

- Performing imaging examinations with DDR and CT
- Writing preliminary reports on CT head scans and plain x-rays
- Checking patient's medical information via LHIMS software
- Printing and distributing patients films
- Utilizing imaging data for research

Radiographer

37 Military Teaching Hospital. Internship

August, 2023 - October, 2023

- Performed various radiographic techniques for diagnosis
- Ensured professionalism and ethics such as privacy and confidentiality of patient's data
- Provided preliminary reporting on a procedure to assist radiologist in identifying abnormalities

Radiographer

October, 2022 - April, 2023

Komfo Anokye Teaching Hospital. Internship

- Operated conventional and digital X-ray equipment, CT scans, MRI, and dental X-ray equipment
- Ensured professionalism and ethics such as privacy and confidentiality of patient's data
- Assessed patient to be able to select the appropriate radiographic technique that will promote better diagnosis
- Assisted the geriatric and non-ambulatory patients into the X-ray room and back to their original seats
- Obtained appropriate images of the anatomy under investigation for better diagnosis and treatment
- Provided patients with protective equipment for body parts that are not in the area of interest but are radio sensitive
- Treated patients as my guest by allowing them feel comfortable, explained the procedure to patients and provided them their right to partake or avoid the procedure
- Provided patients with reassurance and after care treatments

Radiographer

September, 2021 - September, 2022

Effia Nkwanta Regional Hospital. Internship

- Assessed patients and their clinical requirements to determine appropriate radiographic techniques needed for diagnosis
- Performed a range of radiographic examinations on patients to produce high-quality images

- Observed and maintained contact with patients during their waiting time, examination time and post-examination time in the department
- Provided support and reassurance to patients, taking into account their physical and psychological needs

Radiographer

June, 2021 - August, 2021

The Greater Accra Regional Hospital. Internship

- Assessed patients and their clinical requirements to determine appropriate radiographic techniques
- Ensured professionalism and ethics such as privacy and confidentiality of patient's data
- Performed a range of radiographic examinations on patients to produce high-quality images
- Observed and maintained contact with patients during their waiting time, examination time and post-examination time in the department
- Provided support and reassurance to patients, taking into account their physical and psychological needs
- Performed chest x-rays and abdominal x-rays for with mobile x-ray equipment for neonates at Neonatal Intensive Care Units

HONOURS AND AWARDS

United Kingdom Imaging and Oncology Abstract Sponsorship	2024
For abstract acceptance and to present at the UKIO 2024 Congress in Liverpool, England.	
Bill and Melinda Gates Foundation Sponsorship	2024
Issued by BMGF to attend the Ultralow Field Neuroimaging In The Young (UNITY) program meeting at the ISMRM Conference in Singapore	
The Queen's Commonwealth Essay Competition	2023
Issued by Royal Commonwealth Society	
Hostel Representatives President	2023
Issued by Tescon-Uhas	
Tech for everyone	2023
Issued by Sololearn	
Most Promising Radiography Student	2020
University of Health and Allied Sciences, Ghana	
Norppalm Company fully funded Scholarship	2015-2018
St. Mary's Boys Senior High School, Ghana	

CERTIFICATIONS

Radiography with heart: Developing Empathy in Radiography Practices course	May, 2024
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From North West Imaging Academy &
The University of Salford, Manchester
Certificate of CME, The ESR/EIBIR Webinar Series: May, 2024
**The Advancement in Cancer Imaging: Navigating the
Digital Transformation of Cancer Care in the European
Research Landscape**

From European Accreditation Council for Continuing Medical
Education.
Certificate of Credits (7.50 AMA PRA Category 1 Credits) May, 2024
**for attending fMRI for all (3.50C) and Introduction to
Trauma (4.00C) at the ISMRM & ISMRT Annual Meeting**

From ISMRM And ISMRT
Certificate of Credits for attending 25 sessions. May, 2024
**at the ISMRM & ISMRT Annual Meeting
(12.00 C.P.D / C.E. Category A Credits)**

From ISMRM And ISMRT
Certificate of Participating in the ISMRM & ISMRT May, 2024
Annual Meeting and Exhibition 2024 in Singapore

From ISMRM And ISMRT
AI and Innovations Forum 2024 April, 2024

From Everything MRI
Dose Management April, 2024

From iViolin
Dose Reduction Tools. April, 2024

From iViolin
CT Dosimetry and Image Quality Assessment. March, 2024

From iViolin
Metastatic Renal Cell Carcinoma March, 2024

From Radiology Across Borders
Practical Case-Based Review Series: Renal Pathology March, 2024

From Everly Health
Allied Health Professions Council November, 2023

Ghana
Advanced Cardiac Life Support. October, 2023

From medtigo
Basic Life Support October, 2023

From medtigo
Enhancing brain tumors learning Pathway October, 2023

Radiopaedia.org
**Inaugural International Society of Magnetic Resonance
in Medicine African Chapter Conference** September, 2023

Organized by ISMRM African Chapter and ISMRM
2-Day MRI Workshop September, 2023

Organized by ISMRM African Chapter and Smart Africa Network

Sponsored by Chan Zuckerberg Initiative Adult Neuroradiology Review Course. Radiopaedia.org	July, 2023
Trauma Radiology Course Radiopaedia.org	July, 2023
Medical Imaging Anatomy Radiopaedia.org	July, 2023
Radiation Safety Test From Diagnostic Imaging Pathways	July, 2023
Tech For Everyone From Sololearn	May, 2023
Management in Digital Radiography: The Case of TB detection and AI From Delft Imaging	October. 2022
Case Studies in Medical Errors Stanford University School of Medicine	October, 2022
Dose Reduction Techniques International Society of Radiographers and Radiologic Technologists, ISRRT	April, 2022
Clinical Audit in Medical Imaging International Society of Radiographers and Radiologic Technologists, ISRRT	April, 2022

PROFESSIONAL DEVELOPMENT TRAINING

Workshop, Conferences and Symposium

International Society of Magnetic Resonance in Medicine & International Society of MR radiographers and Technologist Annual Meeting and Exhibition 2024 Live Event in Singapore. From International Society of Magnetic Resonance in Medicine	May, 2024
Nyansapo Artificial Intelligence Symposium Organized by Ghana Atomic Energy Commission Sponsored by the French Embassy in Ghana	October, 2023
Patients, Passion and Protection MSRT 85th Annual Educational Conference	October, 2023
Inaugural International Society of Magnetic Resonance in Medicine African Chapter Conference Organized by ISMRM African Chapter and ISMRM	September, 2023
2-Day MRI Workshop Organized by ISMRM African Chapter and Smart Africa Network Sponsored by Chan Zuckerberg Initiative	September, 2023
Radiopaedia 2023 Virtual Radiology Conference	July, 2023

Organized by Radiopaedia.org

Seminars/Webinars

Radiography with heart: Developing Empathy in Radiography Practices course From North West Imaging Academy & The University of Salford, Manchester	May, 2024
The ESR/EIBIR Webinar Series: The Advancement in Cancer Imaging: Navigating the Digital Transformation of Cancer Care in the European Research Landscape From European Accreditation Council for Continuing Medical Education.	May, 2024
Introduction to Grant Writing; Digital Lecture Series A webinar by BIO Ventures for Global Health	November, 2023
Cardiac CT Angiography: The role in different degrees of coronary artery disease A webinar by AuntieMinnie.Com	November, 2023
Head and Neck Tumor Imaging: from Human Diagnosis to AI A webinar by Guerbet Asia Pacific	November, 2023
2023 Delft International Radiographers Webinar From Delft Imaging	August, 2023
Management in Digital Radiography: The Case of TB detection and AI A webinar by Delft Imaging	October, 2022

PROFESSIONAL AFFILIATIONS

Allied Health Professions Council
Radiopaedia.org
International Society of Magnetic Resonance in Medicine, ISMRM
ISMRM- African Chapter
International Society of Radiographers and Radiologic Technologists
European Society of Radiology
Radiology Across Borders
Federation of Ghana Catholic Health Trainees

COMMUNITY SERVICE AND VOLUNTEER EXPERIENCE

Volunteer
The Smart Hub

- Educated adolescent boys and girls in marginalised communities in Volta region, Ghana on adolescent reproductive health

- Donated sanitary products to adolescent girls in marginalised communities in Volta region, Ghana

Volunteer

Komfo Anokye Teaching Hospital

- Performed various forms of radiography procedures with modalities such as digital x-ray, computed tomography, Magnetic Resonance Imaging, Dental Imaging
- Assessed patients and their clinical requirements to determine appropriate radiographic techniques
- Assisted the geriatric and non-ambulatory patients from the reception into the imaging room and back
- Dispatched radiographic films to patients
- Provided after-care treatment and reassurance to patients

Hostel Representatives President

Tescon - UHAS

- President over the individual hostel representatives of TESCON-Ho Chapter
- Overseen the welfare of TESCON-Ho Chapter in the various hostels of UHAS
- Evaluated the activities of the individual hostel representatives (being financial and managerial duties) and submitted the final course to the president of TESCON-Ho Chapter and other required leaders

Volunteer

Rural Communal Labour or work

Mpohor Community

- Participating in environmental sanitation
- Planting of trees and engaging in recycling activities
- Helping the elderly and disabled in the community
- Participating in budget review and fundraising

LANGUAGES

English: Native Language, Distinguished levels in Listening, Speaking, Reading, and Writing.

French: Beginner, Level I

SKILLS AND COMPETENCES

Patient Safety.	Python and MATLAB basics
Quality Assurance and Control.	Mathematical Modeling beginner
Magnetic Resonance Imaging	Basic Life Support
Adult Neuroradiology	Good Communication Skills
Trauma Radiology	Imaging Reporting
Clinical and Academic Research	Teamwork

Analytical Skills.
Medical Imaging.
Radiation Safety
Radiotherapy and Nuclear Medicine
Computer Literacy and Data Analysis

Adaptability
Volunteering
Advanced Cardiac Life Support
Microsoft Office Suite
Problem Solving Skills

REFERENCES

Available on request