

Curriculum Vitae

Cynthia Jebuni-Adanu

Department of Physics Education,

University of Education, Winneba.

P. O. Box 25, Winneba-Ghana

+233 242809402

cjadanu@uew.edu.gh

Born on 11th December 1978

Ghanaian

Areas of Expertise or Professional Skills: Electronics, Electricity and Magnetism, Nanocarbons, Gender Issues in STEM, Using Indigenous Technology to teach STEM, Photonics, Access and Quality Education for the Girl Child, Virtual Laboratory Applications

Professional Qualifications

Awarding Institution	Qualification	Period
Commonwealth Scholarship Commission in the UK	Commonwealth Professional Fellowship	March 2022 - June 2022
University of Education, Winneba	Ph.D. In Science Education	January 2022 - Date
University of Education, Winneba	PGDTLHE	January 2022 – To Date
University of Cape Coast	MPhil. Physics	September 2012 – March 2016

BSc.	Phy	vsics

September, 2005 – June, 2009

ffice/Location	Period
ysics Education	March 2021 - To Date
tment, University of	
acation-Winneba	
ysics Education	January 2022 – To Date
tment, University of	
acation-Winneba	
֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	Office/Location Tysics Education Itment, University of Tysics Education Tysics Education Tysics Education Tysics Education Tysics Education Tysics Education

Education

Qualification/C	ertificate	Awarding Institution		Date		
obtained						
PGDTLHE		University	of	Educati	ion,	January 2022 – To Date
		Winneba				
Ph.D. In Science	e Education	University Winneba	of	Educati	ion,	January 2022 – To Date
MPhil. Physics		University o	f Cap	e Coast		September 2012 – March, 2016
BSc. Physics		University o	f Cap	e Coast		September, 2005 – June, 2009
Teacher Cert A		St. Franci Education, F		College	of	September 1997-June,2000
(SSSCE) Gener	al Science	St. Francis C Jirapa			ool,	September 1993 – May 1996
Career History		-				
Position/Title	Name of	Date				Responsibilities

UEW: Faculty

Institution

Assistant Lecturer	Physics Education Department, University of	March 2021 – To Date		Teaching (Electricity and Magnetism I and II, Electronics I, Assessment) Curriculum Development
	Education-		3.	Setting and marking of assignments and
	Winneba			exams scripts
			4.	Supervision of student's projects
Course Tutor	St. Francis College	May 2020		1. Teaching (General Physics,
	of Education	- March		Electricity and Magnetism I,
		2021		Electronics and Assessment)
				2. Curriculum Development
				3. Setting and marking of
				assignments and exams scripts
				4. Supervision of student's projects
HOD for	Adisadel College	September	1.	Planning, preparing and delivering
Science/	(G.E.S)	2009 - May		lessons to a high standard
Physics Tutor		2020	2.	Assisting in setting of examination
				questions and coordinating all internal
				and external examinations
			3.	Coordinating NSMQ, Sharks Quiz and
			4	other activities for the department
			4.	Providing careers support and advising students
			5.	Keeping accurate administrative and
				academic records of students
			6.	Contributing and organizing
				departmental meetings, activities and
				reporting to the school Board of
				Governance

Basic School	Avenui Basic	September	1.	Teaching all su	ibjects on	the teaching
Teacher	School	2000 –		primary school	timetable	
	Agona DC Primary	September	2.	Coordinating	extra	curriculum
	School	2005		especially Girl Child issues		S
			3.	Secretary to the	school SM	I C

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

- [1] C. Jebuni-Adanu, V. Antwi, I. K. Acquah, D. Appiah, M. Gyan, F. Addo-Wuver, B. Sarkyi. Using Physics Education Technology (PhET) to enhance conceptual understanding of conversion and conservation of energy in Tuobodom Senior High Technical School. (Manuscript Under revision) Education Research International
- [2] D. Appiah, M. Gyan, V. Antwi, C. Jebuni-Adanu & F. Addo-Wuver. Using an activity-based method to enhance academic performance in projectile motion among physics students at mankessim senior high technical school, Ghana. (Manuscript Under revision) *Journal of University Teaching & Learning Practice*
- [3] D. Appiah, M. Gyan, V. Antwi, A.A., C. Jebuni-Adanu & F. Add-Wuver. Improving the academic performance of science students in Kinematics using problem-solving strategies and regular classroom tests at Swedru Senior High School. (Manuscript Under revision) *Journal of University Teaching &learning practice*
- [4] Sekyi-Arthur, D., **Jebuni-Adanu**, C., Mensah, S. Y., & Amewode, E. K. (2022). Thermal conductivity in fluorine-doped single-walled carbon nanotubes. *Materialia*, 26, 101613.
- [5] R. Edziah, D. Sekyi-Arthur, C. Jebuni-Adanu, S.Y. Mensah, K.A. Dompreh, R. Arthur. High frequency amplification of acoustic phonons in fluorine-doped single-walled carbon nanotubes. (In Press) *Journal of LATEX Templates*.
- [6] Sakyi-Arthur, D., Mensah, S. Y., Adu, K. W., Dompreh, K. A., Edziah, R., Mensah, N., & **Jebuni-Adanu, C**. (2020). Semiconductor Fluorinated Carbon Nanotube as a Low Voltage Current Amplifier Acoustic Device. *World Journal of Condensed Matter Physics*, 10(01), 12.
- [7] Sakyi-Arthur, D., Mensah, S. Y., Adu, K. W., Dompreh, K. A., Edziah, R., & Jebuni-Adanu,

C. (2020). Induced Hall-Like Current by Acoustic Phonons in Semiconductor Fluorinated Carbon Nanotube. *World Journal of Condensed Matter Physics*, 10(02), 71.

Professional Development:

Training Sessions

Course Title	Course	Location	Period
	Instructor		
Developing STEM skills through		Winneba	1st February 2022
indigenous-based practices			

Seminars and Workshops

Course Title	Location	Period
Faculty Seminar	Lecture Hall II-Faculty of Science Education, UEW	25 th January, 2023
Faculty Seminar	Lecture Hall II-Faculty of Science Education, UEW	8 th February, 2023
Faculty Seminar	Lecture Hall II-Faculty of Science Education, UEW	22 nd February, 2022
Seminary on Proposal Writing	IERIS	September 2022
Professional Training on Open STEM Africa and Open Resources	CENDLOS	May 2022

Faculty Retreat Elmina Beach Resort, 26th to 29th August 2021

Elmina

Conference on Funded Jophus Anamuah- 19th August, 2021

Research and Innovation Mensah Conference

(Building an Excellent Centre, North Campus,

University through Funded Winneba

Research and Innovation)

Prof. Ernest Aryeetey

Conferences

Name of Conference Location Period

Organization for Women in KNUST IDL Centre, Kumasi 8th – 9th March, 2024

Science for the Developing

world, Ghana Chapter

(Presenter)

Training and Development SLT, South Campus, UEW 9th – 10th May, 2024

Seminar

Inter-University Conference for Jophus Anamuah-Mensah 17th -19th January, 2023

Doctoral Studies (IUCDS) Conference Centre, North Campus,

Winneba

Maiden National Digital & Labadi Hotel Accra May, 2022

Distance Learning Conference -

(Virtual Presenter).

Deta Conference (Co Presenter University of Pretoria June 2021

with Open University, UK

Women in Educational Appalachian University, US

Leadership Symposium

(WIELS)

Curriculum Development

Instructional Material on Developing Rural Girls STEM Skills using Indigenous Practices and Gender Responsive Pedagogy

A talk on how secondary school physics teachers to will integrate iCampus, iBox and Virtual laboratory in teaching physics and other STEM subjects.

January 2022

Building capacity for basic school STEM February, 2022 in Effutu Municipality teachers on how to teach using Gender- January 2021 in Cape coast.

Responsive Pedagogy

Student Development

- a. Academic counsellor: Seventy students advised per semester and about five hours spent on advising students per week.
- b. Counselling nursing mothers and venerable on how to cope with academics
- c. Re-organisation of physics students' association of Ghana.

Mentorship

Area(s) of Development

Number of Staff Mentored

Mentorship for girls in schools in rural areas One hundred (100) JHS girls in Effutu on developing STEM skills through

indigenous-based practices

Mentorship for STEM teachers in five JHS in Twenty (20) STEM teachers

Effutu, on developing STEM skills through

indigenous-based practices

Mentorship for Females in Physics in UEW

on how to study Physics

Membership of Professional Association(s)

Name of Association Position held (if applicable) Period

Ghana Science Association	Member	December, 2022 To Date
(GSA-UEW)		
Commonwealth Scholars and	Member	June, 2022 To Date
Fellows Association of Ghana		
University Teachers	Member	March, 2021 To Date
Association of Ghana (UTAG)		
US-Ghana Alumni	Member	December, 2018 To Date
Association (USGHAA)		
American Institute of	Student member	January, 2018 To Date
Physics		
National Society of Black	Member	January, 2005 to Date
Engineers		
Alumnus of Teaching	National Organising	2018
Excellence Award (TEA)	secretary	
Women in STEM	Member	2022- Date
Women in Physics	Member	2007 - Date
Institutional Services		
Name of Institution/Organisation	Position(s) held	Period
Photonics Research	Secretary	February, 2022- To Date
Department of Physics Education, UEW	Academic Counselor	January, 2022- To Date

Community Service

Name of Institution/Organisation	Position(s) held	Period
Right to play	National facilitator for	February, 2022
	teachers and directors of GES	

Right to play National trainer for colleges of 2020

education on how to use play-

based pedagogy

Right to play Reviewer of a book for October 2022

colleges of education on how to integrate play-based pedagogy into the college of

education curriculum

GES Volunteering to preparing September 2011-Date

BECE and WASSCE candidate for their

examination

Catholic Church President December 2018

(Ewe Community Association)

Mentoring of young Girls in the Effutu Co- Lead December 2021

Municipal June, 2021 to study STEM Courses through science exhibition

Photonics Explorer Kit Outreach in some Secretary to the Researchers June 2021 selected secondary schools within the

central region

Professional Service or Consultancy outside the Universit

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

Name/Type of Award Awarding Institution/ Organisation Period

ACEF Grant Commonwealth January-

February 2023

Commonwealth Professional Fellowship Commonwealth Scholarship March, 2022

DAST Award Commission in the UK June 2021

US Department of State

2nd leader of the group, a facilitator, and a US Department of State 12th November to

mentor: Promoting the learning OF STEM 12th December

education in deprived communities. 2019

Girl-Child STEM project. Improving Girl US Department of State 10th March to 20th

Child Enrolment into well-endowed March 2020

STEM schools

Referees

1. Prof. Victor Antwi

Pro-Vice Chancellor

University of Education, Winneba

+233 0509800342

vicantwi@yahoo.co.uk/vantwi@uew.edu.gh

2. Prof. Ruby Hanson

University of Education, Winneba Department of Chemistry Education Winneba

Tel: 0244728690

E-mail: <u>maameruby@yahoo.com</u>

3. Dr. Gloria Armah

Acting Head of Department, Department of Physics Education, UEW Winneba

Tel:0201043128

E-mail: garmah73@yahoo.com/ garmah@uew.edu.gh

4. Prof. S.Y. Mensah

University of Cape Coast Cape Coast Tel: 0244366127 Email:profsymensah@yahoo.co.uk

Signature: Date: