

# **CURRICULUM VITAE of**

## **Professor Samuel Kwesi Asiedu-Addo, PhD**

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### **Personal Data:**

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*Marital Status* Married  
*Number of Children* Three

### **BRIEF PROFILE**

*Professor. Samuel Kwesi Asiedu-Addo, PhD is an experienced University lecturer and expert in the teaching and learning of mathematics and mathematics education. He is a highly motivated and enthusiastic individual with a PhD degree in Applied Mathematics. He is dedicated to all jobs most especially the teaching and learning of mathematics to students of higher learning. He is an astute researcher in differential equations, mathematical and statistical modeling and mathematics education. His passion for mathematics is par excellent and he is able to use own initiative and works well in a team even under pressure to meet deadlines with set objectives. Prof. is a good communicator with excellent organization skills. He is a former Council member of the Governing Council of the University of Education, Winneba (UEW), a former Council member of the Governing Council of Kumasi Technical University (KsTU), a former National President of the University Teachers Association of Ghana (UTAG), former National President of the Mathematical Association of Ghana (MAG), a former Dean, School of Graduate Studies and a former Dean of the Faculty of Science Education, UEW. Currently. Prof. Asiedu-Addo has represented the Vice Chancellor and the Pro-Vice*

*Chancellor on many occasions due to his vast experience in university management. Under the supervision of Prof. Asiedu-Addo, many students have graduated with PhD and MPhil degrees in mathematics and mathematics education in many universities across the country. His competence and teaching skills can be testified by many renowned universities in Ghana including the University of Education, Winneba, University of Cape Coast, Kwame Nkrumah University of Science and Technology, Kumasi University of Mines and Technology, Tarkwa and the Akerten Appiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi, not forgotten the University of Vermont in the far away USA. A very humble and pleasant personality you would like to work with and more importantly a proud and complete old student of Ghana Secondary Technical School (GSTS), Takoradi. At his leisure time, Prof, can be found watching football especially when the Blues are in action.*

## **EDUCATIONAL BACKGROUND**

Table 1 shows the various institutions I attended from the primary school in Amanasi in the Eastern Region where I was born through to the University of Cape Coast where I graduated with a terminal degree. The table also shows the departments and the periods of study where applicable.

**Table 1 Educational Background**

<b>Name of Institution Attended</b>	<b>Department</b>	<b>Period</b>
University of Cape Coast (UCC), <i>Cape Coast-Ghana</i>	Mathematics	2001-2007
University of Vermont (UVM), <i>Burlington-USA</i>	Mathematics and Statistics	2001-2005
University of Cape Coast (UCC), <i>Cape Coast-Ghana</i>	Mathematics Education	1994-1995
Kishinev State University <i>Kishinev-Moldova (USSR)</i>	Mathematics	1984-1990
Ghana Secondary Technical School (GSTS), <i>Takoradi-Ghana</i>	N/A	1976-1983
Aggrey Memorial Middle School, <i>Sekondi-Ghana</i>	N/A	1974-1976
Amanasi L/A Primary School, <i>Amanasi-Ghana</i>	N/A	1968-1974

## **ACADEMIC QUALIFICATIONS**

My academic qualifications and certificates, name of institution and dates obtained are shown in Table 2. Please take note that I started my PhD programme at the University of Cape Coast, continued with the research at the University of Vermont in the USA and came back to the UCC to complete,

**Table 2 Academic Qualifications**

<b>Qualification/Certificate Obtained</b>	<b>Name of Institution Attended</b>	<b>Date</b>
Doctor of Philosophy (Mathematics)	University of Cape Coast	2007
Post-Graduate Certificate in Education	University of Cape Coast	1995
Master of Science (Mathematics)	Kishinev State University, Moldova	1990
General Certificate of Education (Advanced Level)	Ghana Secondary Technical School, (GSTS), Takoradi	1983
General Certificate of Education (Ordinary Level)	Ghana Secondary Technical School, (GSTS), Takoradi	1981

## **DISSERTATIONS/THESES**

- Doctor of Philosophy Modeling Aspects of Aerosol Deposition in the Human Respiratory Tract
- Master of Science Smooth Linearization of some four-Dimensional Polynomial Dynamic Systems
- Post Graduate Certificate in Education Effective Way of Teaching Calculus

## **RESEARCH INTEREST**

- Differential Equations
- Mathematical Modeling
- Statistical Modeling
- Mathematics Education

## **AREAS OF EXPERTISE OR PROFESSIONAL SKILLS:**

My teaching career in the universities started in 1992 at the University of Cape Coast (UCC). Whilst at UCC, I was doing part-time teaching at the newly established University College of Education, Winneba (UCEW) now University of Education, Winneba (UEW) in the Department of Mathematics Education. Thus, making me a founding member of the Department. In 1997, I had to transfer my services from UCC to the UEW as full-time lecturer in order to further strengthen the department. The following are the courses I have been teaching mathematics courses both at the graduate and undergraduate levels.

***Teaching Areas at the Graduate Level*** ***(PhD, MPhil and M.Ed. Levels)***

- Research Methods in Education
- Statistical Models and Experimental Design
- Business Statistics
- Applied Mathematics and Statistics
- Advanced Topics in Geometry
- Real Analysis
- Topology
- Quantitative Techniques
- Ordinary Differential Equations
- Partial Differential Equations
- Number Theory
- Research and Development in Mathematics Education
- Seminar Paper Presentation

***Teaching Areas at the Undergraduate Level***

- Ordinary Differential Equations
- Partial Differential Equations
- Probability Theory
- Statistics
- Introductory Calculus
- Advanced Calculus
- Abstract Algebra
- Basic Algebra
- Linear Algebra
- College Algebra
- Mathematics Foundation I
- Mathematics Foundation II
- Teaching Secondary School Mathematics
- Applications of Finite Mathematics

## CAREER HISTORY

I rose through the ranks from Assistant Lecturer to Associate Professor in mathematics. I also had an appointment as a visiting lecturer at the University of Vermont in the USA where I taught mathematics to undergraduate students from 2001 to 2005. Details are displayed in Table 3 and Table 4

**Table 3 Career History**

<b>Institution (Position/Title)</b>	<b>Department Name of Institution</b>	<b>Year Date</b>
University of Education, Winneba ( <b>Professor</b> )	Mathematics Education	December, 2017-Date
University of Education, Winneba ( <b>Associate Professor</b> )	Mathematics Education, Winneba	February 2013- December 2017
University of Education, Winneba ( <b>Senior Lecturer</b> )	Mathematics Education, Winneba	March 2006- February 2013
University of Vermont, USA ( <b>Visiting Lecturer</b> )	Department of Mathematics & Statistics	January 2001- December 2005
University of Education, Winneba ( <b>Lecturer</b> )	Mathematics Education, Winneba	March 1997-March 2006
University of Cape Coast, Cape Coast ( <b>Lecturer</b> )	Department of Mathematics and Statistics	September 1994- March 1997
University of Cape Coast, Cape Coast ( <b>Assistant Lecturer</b> )	Department of Mathematics and Statistics	September 1992- August 1994

## PROFESSIONAL QUALIFICATIONS

**Table 4 Professional Qualifications**

<b>Rank</b>	<b>Supporting Evidence</b>	<b>Period</b>
<b>Professor</b>	University of Education, Winneba, Department of Mathematics Education	December 2017-Date

Associate Professor	University of Education, Winneba, Department of Mathematics Education	February 2013-December 2017
Senior Lecturer	University of Education, Winneba	March 2006-February 2013
Lecturer	University of Education, Winneba, Department of Mathematics Education	March 1997-December 2006
Lecturer	University of Cape Coast, Department of Mathematics and Statistics	September 1994-February 1997
Assistant Lecturer	University of Cape Coast, Department of Mathematics and Statistics	March 1992-September 1994

### **PROFESSIONAL RESPONSIBILITIES:**

I have occupied several positions in the university in various capacities with dedication, loyalty and humility and achieved good results for the development of UEW. I have listed the various positions I have occupied with details in Table 5.

**Table 5: Professional Responsibilities**

<b>Position</b>	<b>Office/Location</b>	<b>Period</b>
Dean	School of Graduate Studies	March 3, 2022-November 6, 2022
Deputy Director	Institute for Educational Research and Innovation Studies (IERIS)	October 1, 2021-March 2, 2022
Director	Office for Institutional Advancement (OIA), University of Education, Winneba	August 1, 2018-July 31 2019
Dean	Faculty of Science Education, University of Education, Winneba, Ghana	August 1, 2015-July 31, 2018
Ag. Dean	Faculty of Science Education, University of Education, Winneba, Ghana	April 13-April 18, 2014
Head of Department	Department of Mathematics Education, University of Education, Winneba, Ghana	August 2011- 2015

Faculty Examination Officer	Faculty of Science Education, University of Education, Winneba, Ghana	September 2005-2011
Head of Department-Department	Department of Mathematics Education, University College of Education, Winneba	September 1997-August 1999
Ag. Dean	Faculty of Science Education, University of Education, Winneba	May 1999-June 1999
General Coordinator	NPT Programme 155 “PRACTICAL PROJECT”– Strengthening Mathematics and Science Teacher Training” in cooperation between the University of Cape Coast (UCC), the University of Education, Winneba (UEW) and the Vrije Universiteit Amsterdam (VUA)	May 2008-2010
Coordinator Quality Assurance of Course Manual writing	NPT Programme 155 “PRACTICAL PROJECT”– Strengthening Mathematics and Science Teacher Training” in cooperation between the University of Cape Coast (UCC), the University of Education, Winneba (UEW) and the Vrije Universiteit Amsterdam (VUA)	March 2007-May 2008
Coordinator Faculty Seminar Series	Faculty of Science, University of Education, Winneba	September 2005-August 2009
Academic Councillor MPhil Year 1&2 PhD Year 1, 2 &3	Department of Mathematics Education, University of Education, Winneba	July 2025-date
Academic Councillor Level 300	Department of Mathematics Education, University of Education, Winneba	September 2005-2011
Coordinator Basic Mathematics Program	University of Education, Winneba	September 1997-August 2001
Academic Councillor Level 200	Department of Mathematics Education, University of Education, Winneba	September 1997-August 2000

Hall Councillor Valco Hall	University of Cape Coast	September 1994-August 1996
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### **PROFESSIONAL SERVICE OR CONSULTANCY OUTSIDE THE UNIVERSITY:**

I have represented the Vice Chancellor at different fora and offered consultancy services to institutions outside the university including National Accreditation Board, sister universities and the Ghana Tertiary Education Commission (GTEC) as an external assessor, external examiner or an advisor. I am a member of Effutu Council of Elders of the New Patriotic Party (NPP) and served as constituency collation Officer for the party since the year 2000. Please see Table 6 for more details.

**Table 6: Professional Services outside the University**

Name of Institution/Client	Office/Position	Period
17 <sup>th</sup> Congregation of Regent University College of science and Technology, Accra	Represented the VC	December 9, 2023
10 <sup>th</sup> Congregation of the BlueCrest University College, Accra	Represented the VC	November 10, 2023
9 <sup>th</sup> Congregation of Komenda College of Education	Representative of VC	June 17, 2023
19 <sup>th</sup> Congregation of Islamic University College, Ghana	Representative of VC	March 18, 2023
15 <sup>th</sup> Congregation of Wiawso College of Education	Representative of VC	May 27, 2023
63 <sup>rd</sup> Ghana's Independence Day Celebration	Representative of VC	March 6, 2022
Minister of Education's Mother's Funeral	Representative of VC	February 26, 2022
Accra Technical University	External Assessor	November 17, 2021
Ghana Tertiary Education Commission (GTEC) Re-Accreditation of 4 programs at the Kwame Nkrumah University of Science and Technology, Kumasi, Department of Mathematics: 1. <i>MPhil Pure in Mathematics</i> 2. <i>MPhil in Applied Mathematics</i> 3. <i>PhD in Pure Mathematics</i> 4. <i>PhD in Applied Mathematics</i>	Assessor	24-26 November 2021
National Accreditation Board (NAB). Assessment of 4 programs at University of Ghana, Department of Mathematics: 1. <i>Bachelor of Science in Mathematics</i>	Assessor	16-17 December, 2020

2. <i>Master of Science in Mathematics</i> 3. <i>Master of Philosophy in Mathematics</i> 1. <i>Doctor of Philosophy in Mathematics</i>		
The Federal University of Technology, Akure, Ondo State, Nigeria	External Assessor	2019-Preent
Ho Technical University, Department of Mathematics	External Assessor	2019-Present
Catholic University College of Ghana	External Assessor	2019- Present
Ghana Tertiary Education Commission	External Assessor	2018-present
Methodist University College Ghana	External Assessor	2018-Present
University of Mines and Technology, Tarkwa, Department of Mathematics	External Examiner	2017-Present
University of Mines and Technology, Tarkwa, Department of Mathematics	External Assessor	2020-Present
Indian Institute of Engineering Science and Technology, Shibpur, India	External Examiner	2016-Present
University of the Western Cape, South Africa	External Examiner	2015-Present
University of Cape Coast, Department of Mathematics and Statistics, Faculty of Science	External Assessor	2011-Present
Takoradi Technical University, Department of Mathematics	External Assessor	2014-Present
University of Cape Coast, Department of Mathematics and Statistics, Faculty of Science	External Examiner	2015-Present
Kwame Nkrumah University of Science and Technology, Kumasi, Department of Materials Engineering	External Examiner	2008-Present
Tamale Technical University, Department of Mathematics	External Assessor	September 2014.- Present
Tamale Technical University, Department of Mathematics	External Examiner	2014, Sep.- Present
University of Professional Studies, Accra, Department of Banking and Finance	External Assessor	2014-Present
Koforidua Technical University, Department of Mathematics	External Assessor	2012-Present
University of Cape Coast, Department of Science and Mathematics Education, Faculty of Education	External Assessor	2011-Present
Institute of Chartered Accountants, Ghana	Assistant Examiner	1997-2000

International Journal of Technology and Management Research	Reviewer	2013-Present
Entrepreneurship Training Institute. Conferment of degrees on graduants.	Representative. of Ag. VC	November 3, 2017
Inauguration of Vice Chancellor of the University of Cape Coast, Cape Coast	Representative of VC	October 22, 2016
4 <sup>th</sup> Congregation of IAPS Aviation College, Takoradi	Representative of VC	June 24, 2016
8 <sup>th</sup> Congregation of the BlueCrest College, Accra Campus. Conferment of degrees on graduands	Representative of VC	May 20, 2016
Cape Coast Technical University. Congregation	Representative of VC	April 2, 2016
7 <sup>th</sup> Congregation of the BlueCrest College, Accra Campus. Conferment of degrees on graduands	Representative of VC	October 3, 2015
African Leaders in Education Forum. Movempick Ambassador Hotel, Accra.	Representative of VC	August 4-5, 2015
4 <sup>th</sup> Congregation of University College of Management Studies (UCOMS). Conferment of degrees on graduands	Representative of VC	March 21, 2015
6 <sup>th</sup> Congregation of University of Professional Studies, Accra (UPSA)	Representative of VC	November 15, 2014
23 <sup>rd</sup> Ghana University Sports Association (GUSA) Games at the University of Cape Coast.	Representative of VC	June 11-22, 2014
4 <sup>th</sup> Congregation of University College of Management Studies (UCOMS). Conferment of degrees on graduands	Representative of VC	May 3, 2014
Oduduwa University, Nigeria. Conduct of assessment on possible collaboration.	Leader of delegation	April 10-12, 2016
Mentoring Programme (Gender Mainstreaming Directorate, UEW).	Mentor	March 30, 2016-Present
West Africa Examination Council (WAEC), General Certificate of Education (Advanced Level), West Africa	Team Leader/Moderator, Advanced Level Mathematics	1996-1998
West Africa Examination Council (WAEC), General Certificate of Education (Advanced Level), West Africa	Assistant Examiner	1993-1996
Member of Effutu Council of Elders, New Patriotic Party	Constituency Collation Officer	2000-date

## PUBLICATIONS

The three (3) main functions of a university lecturer are Teaching, Research and Community Service. Research is normally measured by the quality and quantity of peer reviewed

publications in reputable journals, publications of books and manuals, conferences, workshops and seminars attended and presentations made. Tables 7 and 8 show the publications and details of each category mentioned above I have contributed to knowledge.

## Books

**Table 7: Publication of books**

<b>Title</b>	<b>Author(s)</b>	<b>Year</b>	<b>Publisher</b>
An Introduction to Partial Differential Equations for Tertiary Institutions	Asiedu-Addo, S. K. & Ali, M.	2019	Pedaddo Ventures
Ordinary Differential Equations	Asiedu-Addo, S. K. & Ali, M.	2019	Institute for Distance Education and e-Learning, University of Education, Winneba
Calculus II	Asiedu-Addo, S. K., Ali, M. & Rufai, S.	2018	Institute for Distance Education and e-Learning, University of Education, Winneba
Probability & Statistics: A first Course for Tertiary Institutions	<b>Asiedu-Addo, S. K.</b> , Amppiah, M. E. & Armah, G	2007	Pedaddo Ventures, Koforidua
Differential Equations-A First Course for Tertiary Institutions	<b>Asiedu-Addo, S.K</b>	2006	City Printers, Accra
Probability & Statistics with Computer Applications.	<b>Asiedu-Addo, S. K.</b> , Awanta, E. K. Amppiah, M. E	2005.	City Publishers, Accra, Ghana
Statistics/Probability for the Mathematics Teacher (Application of Research)	Awanta, E. K <b>Asiedu-Addo, S. K.</b> Amppiah, M. E	2010	IEDE, UEW
Untrained teachers Diploma in Basic Education (UTTDBE) Programme: Editing of Modules-Number and Basic Algebra	<b>Asiedu-Addo, S. K.</b> &other Editors	2007	GES
INSET Sourcebook, School-Based and Cluster-Based INSET (SBI/CBI)	<b>Asiedu-Addo, S. K.</b> & other Editors	2007	GES
Probability & Statistics with Computer	<b>Asiedu-Addo, S. K.</b> , Awanta, E. K. & Amppiah, M. E.	2005	City Printers, Accra

Applications. City Publishers, Accra, Ghana			
Introduction to Differential Equations	<b>Asiedu-Addo, S. K.</b>	2001	IEDE
Mathematics Foundation II.	<b>Asiedu-Addo S. K.</b> Awanta, E.K.	1999	IEDE
Mathematics Foundation I	<b>Asiedu-Addo, S. K</b> Wiredu, E. K	1997	IEDE
Revision Mathematics for Senior Secondary Schools	Eshun, B. A Gordor B. K. Hutchfum, M, <b>Asiedu-Addo, S. K.</b> Wiredu E. K	1996	Ghana Mathematics Group

## Peer-Reviewed Journal Articles

*Table 8: Published Journal Articles*

<b>Title</b>	<b>Author(s)</b>	<b>Year</b>	<b>Publisher</b>
Perceptions of Inquiry-Based Mathematics Instruction in Technical and Vocational Schools in Ghana	Fred Asante-Mensa <b>Samuel Kwesi Asiedu-Addo</b> Samuel Owusu-Ansah Isaac Ansah Benedict Celestine Agbata William Obeng-Denteh	2025	Journal of Mathematics Education
A New Mathematics Teacher must be Born	Asiedu-Addo, S. K., Anang, M. A., Ameyaw, E. S.	2025	Research Journali's Journal of Education. 13(2). <a href="https://www.researchjounali.com/pdf/6317.pdf">https://www.researchjounali.com/pdf/6317.pdf</a> .
The Effectiveness of the Inquiry-Based Teaching Approach on Technical and Vocational Students' Mathematics Achievement in Ghana	Fred Asante-Mensa <b>Samuel Kwesi Asiedu-Addo</b> William Obeng-Denteh Gloria Armah	2024	International Multidisciplinary Journal of Research and Education (IMJRE) Vol. 02, No. 01 (2024), ISSN: 2961- 0079 (Online), 2961-0060

The Impact of the Use of the Problem-Solving Approach in Linking Classroom Mathematics to the Real-Life Activities on Learners' Performance	Seth Amoako Atta, <b>Samuel Asiedu-Addo</b> , Emmanuel Asemani	2023	International Multidisciplinary Journal of Research and Education, Vol.1 No. 1, pp 36-47
Factors Influencing Women's Participation in STEM Programmes in Ghana	Jemima Saah Gloria Armah <b>Samuel Asiedu-Addo</b> John Takyi-Bondzie	2023	International Journal of Science and Research (IJSR)  Volume 12 Issue 4, April 2023, pp 1695-1701
Teacher-Trainees' Background in Teaching and learning of Mathematics	Kofi Ashiboe-Mensah, <b>Samuel Asiedu-Addo</b>	2023	International Multidisciplinary Journal of Research and Education, Vol.1 No. 1, pp 76-87
Investigating the Challenges to Successful Implementation of STEM Integration Education in Ghana Performance	John Takyi-Bondzie, <b>Samuel Asiedu-Addo</b> , Jemima Saah	2023	International Multidisciplinary Journal of Research and Education, Vol.1 No. 1, pp 48-57
Investigating the Effect of Using Geogebra as an Instructional Tool on Van Hiele's Geometric Thinking Levels of Senior High Technical School Students'	Ansah S., <b>Asiedu-Addo, S. K.</b> Kabutey, D. T.	2022	International Journal of Mathematics and Statistics Studies, Vol.10, No.1, pp.31-39
Investigating Factors to be Considered for Successful STEM Integration Education in Ghana	John Takyi-Bondzie, Samuel Kwesi Asiedu-Addo Jemima Saah	2022	International Journal of Mathematics and Statistics Studies Vol.10, No.2, pp.40-51, 2022
Enhancing Performance in Mathematics Through Motivation, Peer Assisted learning, and Teaching Quality: The mediating Role of Student Interest	Arthur, Y. D. Dogbe, C. S. K. <b>Asiedu-Addo, S. K.</b>	2022	EURASIA Journal of Mathematics, Science and Technology Education Vol. 18 No 1. pp 1-13

Females in STEM Education in Ghana: Challenges and Implications for the Girl Child	Saah, J. <b>Asiedu-Addo, S. K.</b>	2021	<i>Researchjournali's Journal of Mathematics</i> Vol. 8 No 1. Pp 1-10
Modeling Students' mathematics Achievement and Performance through teaching Quality: Servqual Perspective	Arthur, Y. D Dogbe, C. S. K. <b>Asiedu-Addo, S. K.</b>	2021	<i>Journal of Applied Research in Higher Education</i> DOI 10.118/JARHE-062021-0243
Effect of problem-based learning on Colleges of Education students' achievement in probability and attitude towards solving probability related problems	Bukari, H. I. <b>Asiedu-Addo, S. K.</b>	2019	<i>African Journal of Educational Studies in Mathematics and Sciences</i> Vol. 15, No. 2
Effect of Gender, Participant Type, and Subject Type on Student and teacher perceptions of Teacher Oral Communication Behaviour in the Mathematics Classroom	Assuah, C. K <b>Asiedu-Addo, S. K.</b> Arthur, Y. D.	2018	<i>International Journal of Advanced Research</i> Vol. 7, Issue 2(A), 9631-9630
Investigating the Reliable and Interpretable Components Existing among Twenty-One Variables Using Principal Component Analysis	Assuah, C. K <b>Asiedu-Addo, S. K.</b> Arthur, Y. D.	2018	<i>International Journal of Advanced Research</i> Vol. 7, Issue 2(A), 9631-9635
Connecting Mathematics to Real Life Problem using Instructor Quality and Availability, Mathematics Facility and Teacher Motivation for Prediction	Arthur, Y. D. <b>Asiedu-Addo, S. K.</b> Assuah, C. K.	2017	<i>International Journal of Scientific Research in Education</i> , July 2017, Vol. 10(3), 311-324.
Students' Perception and Its Impact on Ghanaian Students' Interest in Mathematics: Multivariate Statistical Analytical Approach	Arthur, Y. D. <b>Asiedu-Addo, S. K.</b> Assuah, C. K.	2017	<i>Asian Research Journal of Mathematics</i> . 4(2): 1-12, 2017; Article no.ARJOM.33023
Exploring Fraud and Abuse in National Health Insurance Scheme (NHIS) using Data Mining Sechnique as a statistical Model	Kittoe, J. D. <b>Asiedu-Addo S. K.</b>	2017	<i>African Journal of Educational Studies in Mathematics and Sciences</i> Vol. 13, 2017

Gender Stereotype and Motivation in Learning Statistics among Tertiary Students in Ghana	Arthur, Y. D. <b>Asiedu–Addo, S.</b> Appiah S. K.	2017	<i>EJME — Mathematics Education</i> 2017, Vol. 11, No. 6, 599-608
Examining the effect of Teacher qualification, Teacher experience and School location on Teacher - efficacy and Learning environments.	Zabrina-Anyagre, J. T. Asiedu-Addo, S. K>	. 2017	<i>International Journal of Innovative Research and Development DOI NO.:1024940/ijird/2017/v6/i9/ SEP17102</i>
Triangular law of students' Mathematics Interest in Ghana: A Model with motivation and perception as predictor	<b>Asiedu–Addo, S. K.</b> Assuah, C. K. Arthur, Y. D.	2017	<i>IEJME — Mathematics Education</i> 2017, Vol. 12, No. 5, 539-548
Students' Mathematics Interest Development in Ghana- the Role of Parental Involvement and Agents of Student Motivation.	Arthur, Y. D. <b>Asiedu–Addo, S. K.</b> Assuah, C. K.	2017	<i>Current Journal of Applied Science and Technology</i> 23(4): 1-9, 2017; Article no.CJAST.34571
Effect of Instructor Quality and Availability on Ghanaian Students' Interest in Mathematics Using Regression and Principal Component Analysis	Arthur, Y. D. <b>Asiedu–Addo, S. K.</b> Assuah, C. K.	2017	<i>Advances in Research</i> 11(5): 1-11, 2017; Article no.AIR.34570
Teacher-Student Variables as Predictor of Students' Interest in Mathematics: The Use of Stepwise Multiple Linear Regression Analysis	Arthur, Y. D. <b>Asiedu–Addo, S. K.</b> Assuah, C. K.	2017	<i>Asian Research Journal of Mathematics</i> 4(3): 1-11, 2017; Article no.ARJOM.33544
Senior High School Students' Interest in Mathematics in Ghana – a Logistic Regression Analysis Approach	Arthur, Y. D. <b>Asiedu–Addo, S. K.</b> Assuah, C. K.	2017,	<i>ASIO Journal of Chemistry, Physics, Mathematics &amp; Applied Sciences(ASIO-</i>

			<i>JCPMAS) Volume 2, Issue 1, 2017, 01-06</i>
The Multi-Step Homotopy Analysis Method for a Modified Epidemiological Model for Measles Disease	Bonyah, E. Asamoah, J. K.K Khan, I. <b>Asiedu-Addo, S. K.</b> Khan, A. M.	2017	<i>Nonlinear Science Letter</i> , Vol 8, No. 3, pp 320-332
The Geometric Thinking Levels of Senior High School Students in Ghana	Asemani, E. <b>Asiedu-Addo, S. K.</b> Oppong, R. A..	2017	<i>International Journal of Mathematics and Statistics Studies</i> , Vol. 5(3), pp 1-8
Mathematics Teachers' Knowledge of Effective Pedagogy before and after a Professional Development Workshop	Assuah C. K., <b>Asiedu-Addo, S. K.</b> Arthur, Y. D.	2017	<i>Journal of Science Education and Research</i> . Vol. 3 No. 1 pp 79-94
Primary One Enrolment in Public Schools in Ghana using Time Series Forecasting	Nwi-Mozu, I <b>Asiedu-Addo, S. K.</b> Oppong, R. A. Ali, M.	2017	<i>Journal of Innovation in Education in Africa</i> , Vol. 1(2), pp 29-39
Primary School Mathematics Teachers' Ideas, Beliefs, and Practices of Constructivist Instructional Strategies	Assuah, C. K. Yakubu, W. <b>Asiedu-Addo, S. K.</b> Arthur, Y. D.	2016	<i>African Journal of Educational Studies in Mathematics and Sciences</i> Pp 45-59
The Usage of ICTs in the Teaching and Learning of Mathematics: Tracer Study of Mathematics Educators	<b>Asiedu-Addo, S. K.</b> Apawu, J., Owusu Ansah, N. A. Armah, G.	2016	<i>Journal of Science Education and Research</i> . Vol. 2 No. 1 pp 44-57
An Investigation on the Conceptual Understanding of the Standard Deviation of Fresh Undergraduate Students	Armah G. <b>Asiedu-Addo, S. K.</b> Owusu Ansah, N. A.	2016	<i>ASIO Journal of Chemistry, Physics, Mathematics &amp; Applied Sciences</i> . Vol. 1 (3), pp 1-9.
Aerosol Deposition Dynamics in The Pulmonary Acinus	<b>Asiedu-Addo, S. K.</b>	2016	<i>Journal of Science Education and Research</i> . Vol. 2 No. 2 pp 47-57
Optimal Control Application to an Ebola Model	Bonya, E. Badu, K.	2016	<i>Asian Pacific Journal of Tropical</i>

	<b>Asiedu-Addo, S. K.</b>		<i>Biomedicine. Vol 1(12), pp 1-7</i>
Investigating the Effect of Origami Instruction on Pre-Service Teachers' Spatial Ability and Geometric Knowledge for Teaching	Akayure, P., <b>Asiedu-Addo, S K.</b> Alebna, V.	2016	<i>International Journal of Education in Mathematics, Science and Technology. Vol. 4 (3), pp 198-209</i>
Compulsion in Studying Mathematics and Career Influence by Mathematics on Student Interest in Mathematics	<b>Asiedu-Addo, S. K.</b> Assuah, C. K. Arthur, Y. D	2016	<i>Asian Research Journal of Arts &amp; Social Sciences. Vol. 1 (2), pp 1-8</i>
Solving Time-Fractional Kortevoreg-de-varies Equations by Fractional Reduced Differential Transform Method	Bonyah E. Asad, F. <b>Asiedu-Addo S. K</b>	2016	<i>International Journal of Sciences: Basic and Applied Research. Vol. 24(7) pp. 238-251</i>
Comparative Analysis of Statistical Modeling Techniques: The Effect of Lecturer's Attribute on Tertiary Student's Interest in Statistics.	<b>Asiedu-Addo, S. K.</b> Annan, J. Arthur, Y. D.	2016	<i>ASIO Journal of Chemistry, Physics, Mathematics &amp; Applied Sciences. Vol. 1 (3), pp 10-17.</i>
Fractional Dynamics of Computer Virus Propagation	Bonyah E. Nyabadza F. <b>Asiedu-Addo S. K.</b>	2015	<i>Science Journal of Applied Mathematics and Statistics. Vol. 3, No.3, pp. 63-69</i>
Modeling the Survival of Retrospective Clinical Data from Prostate Cancer Patients in Komfo Anokye Teaching Hospital, Ghana	<b>Asiedu-Addo, S. K.</b> Nwi-Mozu, I. Ali, M.	2015	<i>International Journal of Applied Science and Technology. Vol. 5(6), pp 79-86</i>
Comparative Assessment of Poisson and Negative Binomial Regressions as best Models for Road Count Data	Oppong, A. R. Assuah, C. K. <b>Asiedu-Addo, S. K.</b>	2015	<i>International Journal of Scientific Research and Engineering Studies. Vol. 2 Issue 11, pp 28-32</i>
Students' Errors in Solving Linear Equation word problems. Case study of Ghanaian Senior High Schools.	Adu, E., Assuah, C. K. <b>Asiedu-Addo, S. K.</b>	2015	<i>African Journal of Educational Studies</i>

			<i>in Mathematics and Science, 11 pp 17-30</i>
Statistical Software packages (SSPs) Integration in Teaching and Learning of Statistics in Ghanaian Tertiary Institution	Arthur, Y. D. <b>Asiedu-Addo, S. K</b> Harris, E	2015	<i>Journal of Scientific Research and Reporting. Science Domain International. Vol. 7(4), pp 258-265.</i>
Classifying the Algebraic Thinking Levels of Ghanaian Junior High School Students In Mathematics using SOLO Taxonomy	Owusu Ansah, N. <b>Asiedu-Addo, S. K.</b> Cofie, P. O	2015	<i>Journal of Science. Education and Research. Vol. I pp 49-56</i>
Student Mathematics Interest in Ghana: The Role of Parent Interest, Gender, Basic School Attended and Fear of Basic School Mathematics Teacher	Arthur, Y. D. <b>Asiedu-Addo, S. K</b> Annan, J.	2015	<i>Advances in Research, Science Domain International. Vol. 5, No 5, pp 1-8</i>
Determination of Predictor Variables Contributing to the Survival of Prostate Cancer Patients in Komfo Anokye Teaching Hospital, Ghana.	<b>Asiedu-Addo, S. K.</b> Nwi-Mozu, I Assuah, C. K. Oppong, R. A.	2014	<i>International Journal of Applied Science and Technology, Vol.4 (6), pp77-83</i>
Dwindling Performance in Mathematics in Basic Education Certificate Examination of Akuapem North District, Ghana	<b>Asiedu-Addo, S. K.</b> Owusu Ansah, N. A. Tetteh, R.	2014	<i>Researchjournali's Journal of Education, Vol 2, No. 10, pp 1-9</i>
Analysis of Vehicular Type as a Risk Factor of Road Accidents' Fatality in Ghana.	Oppong, A. R. <b>Asiedu-Addo S. K</b>	2014	<i>International Journal of Modern Sciences and EngineeringTechnology, Vol.1(5),pp 106-114</i>
Ghanaian students' knowledge of the averages after Senior High Education	Armah, G. <b>Asiedu-Addo, S. K.</b>	2014	<i>Researchjournali's Journal of Mathematics, Vol 1, No. 4, pp 1-12</i>
Head Teacher's Supervisory Strategies in Junior High School's in	<b>Asiedu-Addo, S. K.</b> Armah, G. Boakye-Mensah, E	2014	<i>International Journal of Educational</i>

the Mfantsiman West Municipality, Ghana			<i>Research and Development.</i> Vol. 3, pp 25-34
Educational reforms in Ghana: What are the views of teachers and parents?	Apeanti, W. O. Asiedu-Addo, S. K	2013	<i>Academia.edu.</i> <u><a href="http://WWW.Academia.edu/4755172">URL:Http://WWW.Academia.edu/4755172</a></u>
Issues in Teacher Education in Sub-Saharan African from the perspective of a Mathematician.	<b>Asiedu-Addo, S. K</b>	2012	<i>COEASU Journal of Multidisciplinary Studies</i> Vol. 3 No. 1, pp 7-16
Effect of Duct Orientation on Particle Deposition in the Human Respiratory Tract	<b>Asiedu-Addo, S. K.</b> Bentil, D. E.	2011	<i>African Journal of Educational Studies in Mathematics and Sciences</i> Vol. 9 pp 1-12
Asymptotic Behavior of Wronskian of Boundary Condition Functions for a Second Order Boundary Value Problem	Osei, B. <b>Asiedu-Addo, S. K.</b>	2010	<i>International Electronic Journal of Pure and Applied Mathematics</i> Vol.1(1) pp 93-101
A Mathematical Model of Particle Deposition in the Human Respiratory Track and its Implications for Asthmatics.	<b>Asiedu-Addo, S.K.</b> Bentil D. E. Abdllah, E.	2009	<i>Development and Policy Issues in Africa, Vol.2(2)</i>
Gender Differences in Mathematics Achievements In Primary Schools- A Case Study of the Winneba Municipality	<b>Asiedu-Addo, S. K.</b> Armah, G	2009	<i>Ghana Journal of Education and Teaching, Vol.8</i> pp 192-200
Modeling of Aerosol Transport and Deposition in the Human Respiratory Tract - A Mesoscopic Approach	<b>Asiedu-Addo, S. K</b>	2008	<i>Journal of Natural Sciences, Vol.3(3), pp 63-75</i>
Counseling Implications on the Role of the New Mathematics Teacher in the Teaching and Learning of Mathematics.	Osarenren, N. <b>Asiedu-Addo, S. K.</b>	2007	<i>International Journal of Educational Research Vol. 3(1) pp 13-20</i>

A Mathematical Model to Investigate Gain-Induced Oscillation in the Human Cardiovascular System	Dontwi, I. K., Appiah, S. T., Boateng, F. O. <b>Asiedu-Addo, S. K</b>	2006	<i>African Journal of Educational Studies in Mathematics and Sciences. Vol,4, pp 77-91</i>
Nature of Mathematics and its Implication in Teaching Practices: A Teacher's Perception.	Awanta, E. K., <b>Asiedu-Addo, S. K.</b> Amppiah, M. E.	2006	<i>Journal of Faculty of Education, Vol.6(1) pp 1-20</i>
Learning Mathematics: Feminist Perspective and Inclusion.	Awanta E. K. <b>Asiedu-Addo S. K.</b>	2005	<i>African Journal of Special Educational Needs 4(1), pp 137-145</i>
Mathematical Modeling in Population dynamics.	<b>Asiedu-Addo, S. K.</b> Dontwi, I. K. Arthur P.	2004	<i>African Journal of Educational Studies in Mathematics and Sciences, Vol.2 pp 1-9</i>
The use of information technology in Teacher Education	Yidana, I. <b>Asiedu-Addo, S. K.</b>	2001	<i>Mathematics Connection Vol.2, pp 30-34</i>
Mathematics Teachers Knowledge of the Subject Content and Methodology	<b>Asiedu-Addo, S.K</b> Yidana, I.	2000	<i>Journal of Mathematical Association of Ghana. Vol.12 pp 65-71</i>
Group Learning-A Longitudinal Study of Mathematics Students Performance.	<b>Asiedu-Addo S. K.</b> Dontwi I. K	1997	<i>GEMTAJ, 1 (1) 147-152</i>

## Referred Conferences Proceedings/Articles

*Table 9: Conferences Attended*

Title	Author(s)	Year	Publisher

The Geometric Thinking Levels of Senior High School Students in Ghana	<b>Asiedu-Addo, S. K.</b> Asemani, Oppong, R. A.	3-5 October, 2016	2 <sup>nd</sup> International Conference on Education Research for Development in Africa (ICERDA), Alisa Hotel, Accra
Analysis of Vehicular Type as a Risk Factor of Road Accidents' Fatality in Ghana	<b>Asiedu-Addo, S.K.</b> Oppong, R. A.	7-9 July, 2014	7 <sup>th</sup> Annual International Applied Research Conference, Koforidua Polytechnic, Koforidua
Issues in Teacher Education in Sub-Saharan African from the perspective of a Mathematician.	<b>Asiedu-Addo, S. K</b>	2012	<i>COEASU Journal of Multidisciplinary Studies</i> Vol. 3 No. 1, pp 7-16
Perceptions and attitudes related to Mathematics Learning: A comparison between the University of Cape Coast, Ghana and the University of Central Arkansas, USA.	Linda, K. <b>Asiedu-Addo, S. K</b> , Wiredu E. K	1998	International Conference of Mathematicians, Berlin, Germany

## Non-Peer-Reviewed Publications

**Table 10: Unpublished Works**

<b>Title</b>	<b>Author(s)k</b>	<b>Year</b>	<b>Publisher</b>
Modeling Aspects of Aerosol Deposition in the Human Respiratory Tract	<b>Asiedu-Addo S. K.</b>	2007	Unpublished PhD Thesis
Effective Way of Teaching Calculus	<b>Asiedu-Addo, S. K</b>	1995	Unpublished PGCE Dissertation
An Analysis of the 1993 Senior Secondary Mathematics Examination	<b>Asiedu-Addo S. K.</b> Wiredu E. K.	1993	Daily Graphic August 24, 1993
Smooth Linearization of some four-dimensional polynomial Dynamic Systems	<b>Asiedu-Addo S. K.</b>	1990	Unpublished MSc Thesis

## CONFERENCES ATTENDED

I have listed the conferences I have attended both national and international and the title of presentations made (where necessary) at those conferences in Table 11.

**Table 11: Presentations at Conferences Attended**

Name of Conference	Location	Presentations Made	Period
Graduation Ceremony's Guest Speaker	Wiawso College of Education	<i>Promoting STEM Education in Ghana: The role of Science and Technical Colleges of Education</i>	May 27, 2023
Helping Teachers Teach Mathematics Conference (HTTMC)	Centre for Education in Mathematics and Computing (CEMC) at the University of Waterloo, Canada and AIMS Ghana, Accra	<i>Pedagogical Content Knowledge with Passion and Commitment: Key Ingredients of an Effective Mathematics Teacher</i>	January 10-12, 2023
Inter-University Conference for Doctoral Studies	University of Education, Winneba	<ol style="list-style-type: none"> <li><i>Managing your Students for Effective Supervision</i></li> <li><i>Research Paradigm: Quantitative, Qualitative Mixed or Cross-Sectional in Collection Mode with Justification</i></li> </ol>	January 17-19, 2023
International Conference on Education in Mathematics, Science and Technology (ICEMST)	Antalya, Turkey	Conceptual Misunderstanding in SHS Algebra among SHS Mathematics Teachers, Prospective Teachers and Students	March 24-27, 2022
Inter-University Conference for Doctoral Studies	University of Education, Winneba	<i>Research Design: Quantitative, Qualitative Mixed or Cross-Sectional in Collection Mode with Justification</i>	January 18-20, 2022
Directorate of Research, Innovation and Development (DRID)	University of Education, Winneba	<i>Participant</i>	August 8, 2021
5 <sup>th</sup> International Multi-Disciplinary Conference for Postgraduate Students	University of Education, Winneba	<i>Females in STEM Programmes: Challenges and Prospects for the Girl-Child</i>	July 15-16, 2021
28 <sup>th</sup> International Congress of Mathematicians (ICM).	Rio de Janeiro, Brazil	<i>An Investigation on the Conceptual Understanding of the standard Deviation of Fresh Undergraduate Students.</i>	August 1-9, 2018
6 <sup>th</sup> International Council for Health, Physical Education, recreation, Sport and Dance (ICHPER-SD)	University of Education, Winneba, Ghana	<i>Sustainable Development Goals: The Place of The Science Teacher</i>	July 24-27, 2018

1 <sup>st</sup> International Conference on Competency-Based Training and Research (ICCBTR)	University of Education, Winneba, College of Technical Education, Kumasi	<i>The Role of Pedagogical Factors in Predicting Ghanaian Student Interest in Mathematics –Principal Component Analysis Motivated Regression</i>	September 13-15, 2017
21 <sup>st</sup> International Conference on Psychology & Language Research (ICPLR)	Bali, Indonesia Courtyard Marriott Bali Nusa Dua Resort, Indonesia	<i>The Mentorship Role Teachers Play in Students' Mathematics Interest Development Process-The Students' Perceived Teachers Characteristics.</i>	September 7-8 2017
2 <sup>nd</sup> International Multidisciplinary Conference for Postgraduate Students	University of Education, Winneba	<i>Effect of Mathematics Facilities, Mathematics Connection, Teacher Motivation and Instructor Quality on Students Interest in Mathematics</i>	July 24-28, 2017
19 <sup>th</sup> International Conference on Teaching, Education & Learning (ICTEL),	University of Washington - Rome Center (UWRC), Piazza del Biscione 95, 00186 Roma, Italy	<i>Contextualizing Parental Influence in Students' Mathematics Interest Development Process. The Ghanaian Perspective</i>	June 7-8, 2017
2 <sup>nd</sup> International Conference on Education Research for Development in Africa (ICERDA). “Towards a Vision of Education for Sustainable Development in Africa”	Alisa Hotel, Accra	<i>The geometric Thinking levels of Senior High School Students in Ghana</i>	October 3-5, 2016
4 <sup>th</sup> International Conference on Management, Communication & Technology	Academic City College, Accra	<i>Technology Entrepreneurship in the Developing world. (Guest Speaker)</i>	May 30-31, 2016
40 <sup>th</sup> National Conference/Workshop of the Mathematical Association of Ghana	Christian Services University College, Kumasi	<i>Effective Teaching and Learning of Mathematics through Retention of Knowledge</i>	August 8-12, 2016
Africa Virtual University (AVU), Teacher Education Review Conference/Workshop	Nairobi Safari Hotel, Nairobi Kenya	<i>Presented a paper on behalf of the Mathematics group</i>	March 20-25, 2016
International Women's day Conference organized by the Gender Mainstream Directorate of UEW	University of Education, Winneba	<i>Engaging Men and Boys to end Gender based Violence</i>	March 11, 2016
39 <sup>th</sup> National Conference/Workshop of	Ghana Secondary Technical School (GSTS), Takoradi	<i>Stimulating the Teaching and Learning of Mathematics through its Application in Commerce and</i>	August 11-15, 2014

the Mathematical Association of Ghana		<i>Industry: A tool for National Development</i>	
7 <sup>th</sup> Annual International Applied Research Conference	Koforidua Polytechnic, Koforidua	<i>Analysis of Vehicular Type as a Risk Factor of Road Accidents' Fatality in Ghana</i>	July 7-9, 2014
Central Regional Conference/Workshop of Mathematical Association of Ghana	Ghana National College, Cape Coast	<i>Performance in Core and Elective Mathematics of WAEC Examinations-A Dilemma? (Keynote Address)</i>	October 30, 2013
Eastern Regional Conference/Workshop of Mathematical Association of Ghana	Koforidua Technical Senior High School, Koforidua.	<i>Salvaging the Falling Standard of Mathematics-The Role of the Mathematics Teacher</i>	October 23, 2013
4 <sup>th</sup> Quadrennial Delegates Conference of the Ghana National Association of Teachers (GNAT)	Birim Central/Birim South Secretariat, Oda,	<i>Education in Crisis? The Way Forward (Guest Speaker)</i>	April 5, 2013
4 <sup>th</sup> Exams Ethics International Conference	Ramada Resort Hotel, Nungua-Accra	<i>Leadership and management Skills for Successful Administration of Educational Institutions and Effective Classroom Management</i>	December 12, 2012
Western Regional Conference/Workshop of Mathematical Association of Ghana	Fijai Senior High School, Sekondi	<i>Teaching of some topics in the Senior High Schools</i>	May 10, 2012
37 <sup>th</sup> National Annual Conference/Workshop of the Mathematical Association of Ghana (MAG).	Koforidua Polytechnic	<i>Effective Management of a Contemporary Classroom</i>	August 12-17, 2011
1 <sup>st</sup> International Conference of the Colleges of Education Academic Staff Union (COEASU)	Federal College of Education, Abeokuta, Ogun State, Nigeria	<i>Issues in Teacher Education in Sub-Saharan Africa from the perspective of a mathematician</i>	March 21-25, 2011
3 <sup>rd</sup> Exam Ethics International Conference	Alisa North Ridge Hotel, Accra	<i>Developing a Domestic Tertiary System of Education to promote Ethical best practices in Classroom Management</i>	November 29, 2010 to December 3, 2010
International Conference on Mathematics and its Applications	University of Ghana, Legon	<i>Effect of Gravity Orientation on Aerosol Deposition in the Human Respiratory Tract</i>	June 16-20, 2009
First Annual Congress of Ghana Mathematical Society	University of Education, Winneba	<i>Mathematical Modeling of Particle Deposition in the Human</i>	March 26-28, 2009

		<i>Respiratory Tract and its implications for the Asthmatics.</i>	
Western Regional Conference/Workshop of Mathematical Association of Ghana	Fijai Senior High School, Sekondi	<i>New Educational Reforms-Expectation of the Mathematics Teacher</i>	July 3, 2008
Central Regional Conference/Workshop of Mathematical Association of Ghana	University of Education, Winneba	<i>Practical means of dealing with issues arising out of the 2007 New Educational Reform in Mathematics</i>	November 29, 2007
6 <sup>th</sup> Regional College on Modeling, Simulation and Optimization	University of Cape Coast	<i>Mesoscopic modeling of Aerosol Deposition in the Human Lung.</i>	April 13-22, 2004
Conference on Mathematical Modeling and Simulation	University of Vermont, USA	<i>Modeling of Aerosol Deposition in the Human Lung.</i>	April 15, 2004
Conference on Mathematical Modeling and Simulation	University of Vermont, USA	<i>From Microscopic Interactions to Macroscopic Laws of Cluster Evolution</i>	March 26, 2002
Workshop/Conference of the Mathematical Association of Ghana.	University of Ghana, Legon, Accra	<i>Mathematical Modeling in Population Dynamics</i>	August 23-25, 2001
International Congress of Mathematicians	Berlin Germany	<i>Perceptions and Attitudes related to Mathematics Learning: A comparison between the University of Cape Coast, Ghana and the University of Central Arkansas, USA</i>	August 18-27, 1998
Regional Conference of the Mathematical Association of Ghana	University of Education, Winneba	<i>Problem Solving and mathematical Modeling</i>	May 21, 1997.

## WORKSHOPS AND SEMINARS

I have attended several workshops and seminars over the years. I have indicated in Table 12 where I attended as a participant and where I attended in my capacity as a resource person.

**Table 12: Presentations at Workshops and Seminars Attended**

Organization	Location	Period
Faculty of Home Economics, University of Education, Winneba	Elmina Beach Resort Hotel, Elmina	December 8-10, 2021

	<i>Resource Person</i>	
Institute for Teacher Education and Continuing Professional Development (ITECPD), UEW.	Coconut Grove Hotel, Elmina, Ghana <i>(Resource Person)</i>	October 14-19, 2021
Economic Community of West African States (ECOWAS). High level Seminar on two Decades of Democratic Elections in ECOWAS member States: Achievements, Challenges and the Way Forward	University of Education, Winneba <i>(Participant)</i>	October 12-14, 2021
Institute of Educational Research and Innovation Studies (IER{S}), UEW	Anomabo Beach Resort, Ghana <i>(Participant)</i>	October 5-9, 2021
Council for Creative Education, Finland	Kempinski Hotel, Accra <i>(Participant)</i>	November 14, 2017
Joint Admissions Board Review Workshop, University of Education, Winneba	Golden Beam Hotel, Kumasi <i>(Participant)</i>	November 29-30, 2016
Workshop to review Academic Programmes at the University of Education, Winneba.	Smayak Hotel Apam <i>(Resource Person)</i>	September 27-29 2015
Workshop on Qualitative and Qualitative Data Analysis	Smayak Hotel Apam <i>(Participant)</i>	September 22-24 2014
Workshop for Deans and Heads of Academic Department UEW	Smayak Hotel, Apam <i>(Resource Person)</i>	September 17, 2014
Faculty Academic Retreat, Faculty of Science Education, UEW	Smayak Hotel, Apam <i>(Resource Person)</i>	September 1-2, 2014
Department Academic Retreat, Department of mathematics Education, UEW	Nokaans Hotel, Cape Coast <i>(Resource Person)</i>	August 20-22, 2014
Sustaining excellence in educational leadership for accelerated national development	University of Education, Winneba <i>(Participant)</i>	August 13, 2014
Workshop for UEW Council Members	City Escape Hotel, Prampram <i>(Participant)</i>	July 9-11, 2014
Western Regional Conference/Workshop of Mathematical Association of Ghana	G. S.T.S. Takoradi <i>(Resource Person)</i>	November 17-19, 2013
Brong-Ahafo Regional Conference/Workshop of Mathematical Association of Ghana	Sunyani <i>(Resource Person)</i>	October,9-10, 2013
Mathematics Matters Conference	University of Warwick, United Kingdom <i>(Participant)</i>	December 9-15, 2013

38 <sup>th</sup> National Annual Conference/Workshop of the Mathematical Association of Ghana (MAG).	University for Development Studies, WA Campus (Resource Person)	August 13-18, 2012
37 <sup>th</sup> National Annual Conference/Workshop of the Mathematical Association of Ghana (MAG).	Koforidua Polytechnic (Resource Person)	August 12-17, 2011
Jubilee First Oil Dialogue. Topic: (1) Ghana's Oil Find: the prospects for development, (2) Local Content in Ghana's Jubilee Oil.	Accra International Conference Center (Participant)	November 26, 2010
36 <sup>th</sup> National Annual Conference/Workshop of the Mathematical Association of Ghana (MAG).	Methodist University College, Accra Campus (Resource Person)	August 23-27, 2010
16 <sup>th</sup> National Delegates Conference, Academic Staff Union of Universities (ASUU)	Benue State University, Makurdi, Nigeria (Resource Person)	May 11-16, 2010
61 <sup>st</sup> Annual New Year School. Theme: "Sustaining Democratic Governance in Ghana: Issues before the Nation"	Institute of Adult Education, University of Ghana, Legon (Participant) (Resource Person)	January 3-9, 2010
35 <sup>th</sup> National Annual Conference/Workshop of the Mathematical Association of Ghana (MAG)	Tamale Polytechnic (Resource Person)	August 31- September 4, 2009
University Teachers Association of Ghana (UTAG), National Biennial Congress	University of Education, Winneba (Resource Person)	August 26-28, 2009
Project Management Training II: Programme Reform and Alignment for increasing Competencies of Teachers and for Improving Comprehension and Application in Learning Science and Mathematics	Elmina Beach Hotel, Cape Coast (Resource Person)	August, 11-13, 2009
International Conference on Mathematics and its Applications:	University of Ghana, Legon (Participant)	June 16-20, 2009
PRACTICAL Project Training Programme for the improvement of Mathematics and Science Teacher Education and Research in Ghana.	VU University of Amsterdam (VUA) , Netherlands (Participant)	May 23-30, 2009
3 <sup>rd</sup> Workshop on Mathematical and Computational methods in Biology and Medicine: Holistic Modelling and Trends in the Biogeosciences	University of Cape Coast, (Participant)	May 21-24, 2009
Capacity Building Seminar for Secretaries, Security Personnel and	CEDECOM Conference Hall, Cape Coast	May 4-7, 2009

Drivers of Central Region Development Commission (CEDECOM).	(Resource Person)	
1 <sup>st</sup> Annual Congress of Ghana Mathematical Society. Theme: “Developing Mathematical Talents in our Educational System”.	University of Education, Winneba (Resource Person)	March 26-28, 2009
Workshop on Special M. ED Curriculum Development	Manna Heights, Mankessim (Participant)	February 25-28, 2009
Project Management Training, Programme Reform and Alignment for increasing Competencies of Teachers and for Improving Comprehension and Application in Learning science and Mathematics (PRACTICAL).	University of Cape Coast (Participant)	January 12-16, 2009
60 <sup>th</sup> Annual New Year School. Theme: “Life Long Learning for Accelerated National Development” Institute of Adult Education	University of Ghana, Legon (Participant)	January 2-9, 2009
Workshop for Liaisons and Coaches for Zain Africa Challenge Quiz Programmes	Abuja, Nigeria (Participant)	December 2-5, 2008
2 <sup>nd</sup> Workshop on Mathematical and Computational Methods in Biology and Medicine: Networks and Epidemic Modeling	KNUST, Kumasi (Participant)	October 2-5 2008
Western Regional Conference/Workshop Of Mathematical Association of Ghana Presented the Keynote Address on the theme “New Educational Reform Expectation of the Mathematics Teacher”	Fijai Senior High School, Sekondi (Resource Person)	July 3, 2008
1 <sup>st</sup> Workshop on Mathematical and Computational Methods in Biology and Medicine: Modeling Complex Systems	KNUST, Kumasi (Participant)	June 12, 2008-July 3, 2008
NPT PRACTICAL Project Content Course Manual Workshop	Cape Coast (Participant)	June 9-11, 2008
NPT PRACTICAL Project Content Course Manual Workshop	Cape Coast (Participant)	June 2-5, 2008
Retreat on content courses on PRACTICAL project	Mankessim (Participant)	May 20-23 2008.
10 <sup>th</sup> Regional College on Modeling, Simulation and Optimization	University of Cape Coast (Participant)	April 13-20 2008
Workshop on Higher Education Science and Curricular Reforms: African Universities Responding to HIV and AIDS.	Kwame Nkrumah University of Science and Technology, Kumasi (Participant)	March 28-29, 2008

Workshop on Improving the Teaching & Learning of Mathematics for mathematics teachers	T. I. Ahmadiya Secondary School, Gomoa Potsin (Resource Person)	January 23, 2008
59 <sup>th</sup> Annual New Year School. Theme: “Tertiary Education and National Development”	Institute of Adult Education, University of Ghana, Legon (Participant)	January 3-10, 2008
NPT PRACTICAL Project Stockholder’s Workshop	Elmina Beach Resort (Participant)	December 18-20, 2007
NPT PRACTICAL Course Manual Development Workshop	University of Cape Coast (Participant)	December 10-13, 2007
Central Regional Conference/Workshop of Mathematical Association of Ghana	University of Education, Winneba (Resource Person)	November 29, 2007
University Teachers Association of Ghana, National Biennial Congress, “Post Ghana @ 50 Development Agenda & the Role of Leadership	Great Hall, Kwame Nkrumah University of Science and Technology, Kumasi (Participant)	October 25-27, 2007
NPT PRACTICAL Project- Strengthening Mathematics and Science in Teacher Education	Amsterdam, Holland (Participant)	8 <sup>th</sup> June-7 <sup>th</sup> July 2007
NPT PRACTICAL Project- Strengthening Mathematics and Science in Teacher Education	Amsterdam, Holland (Participant)	28 <sup>th</sup> May-24 <sup>th</sup> June 2006
12 <sup>th</sup> Edward Bouche/Abdus Salam Regional College on Functional Analysis, Differential Equations and Applications	University of Cape Coast, Cape Coast (Participant)	July 12-22 2006
11 <sup>th</sup> Edward Bouche/Abdus Salam Regional College on Functional Analysis, Differential Equations and Applications	University of Ghana, Legon, Accra (Participant)	July 11-23 2005
Academic Counsellors’ Training – Three-day workshop organised by the Counselling Directorate of the University of Education, Winneba.	University of Education, Winneba. (Participant)	January 4-6, 2006
Problem Solving in Mathematics – One-day workshop organised by Ghana Educational Project (GEP) for JSS Mathematics Teachers	Nkwanta, Volta Region (Resource Person)	February 2, 2006
Training Workshop for Lecturers for Supervision of Student on Internship	The Centre for Teacher Development and Action Research, IEDE, University of Education, Winneba (Participant)	December 20-21
6 <sup>th</sup> Regional College on Modeling, Simulation and Optimization	University of Cape Coast (Participant)	April 13-22, 2004
Association of Mathematics Education Students week Seminar	University of Education, Winneba, Ghana	April 15, 2004

	(Resource Person)	
Seminar “From Microscopic Interactions to Macroscopic Laws of Cluster Evolution”.	University of Vermont, Burlington, USA (Resource Person)	March 26, 2002
Workshop/Conference of the Mathematical Association of Ghana	University of Ghana, Legon (Resource Person)	August 23-25, 2001
3 <sup>rd</sup> Regional College on Optimization, Simulation and Modeling	Atomic Energy, Kwabenya Accra (Participant)	May 8-18, 2001
7 <sup>th</sup> Edward A. Bouchet Regional College on Functional Analysis and its Application to Differential Equations.	Atomic Energy, Kwabenya Accra (Participant)	July 9-20, 2001
6 <sup>th</sup> Edward A. Bouchet Regional College on Functional Analysis and its Application to Differential Equations.	Atomic Energy, Kwabenya Accra (Participant)	July 10-21, 2000
6 <sup>th</sup> Edward A. Bouchet Regional College on Functional Analysis and its Application to Differential Equations.	Atomic Energy, Kwabenya Accra (Participant)	July 11-22, 1999
Seminar “The virus in the Mathematics Teacher- Can it be Killed”.	UCEW Winneba (Resource Person)	March 21, 1999
International Congress of Mathematicians	Berlin Germany (Resource Person)	August 18-27, 1998
Workshop on Project Development: Science and Technology in Action in Ghana (STAG)	University of Science and Technology, Kumasi (Participant)	October 19-21, 1998
Workshop for Primary Teachers of PLAN INTERNATIONAL assisted Schools from the Bawjiase Area.	University of Education, Winneba (Resource Person)	November 16-20 1998
Workshop for Training Distance Education Material Writers.	University of Education, Winneba (Participant)	May 4-8, 1998
3 <sup>rd</sup> Edward A. Bouchet Regional College on Functional Analysis and its Application to Differential Equations.	Atomic Energy, Kwabenya Accra (Participant)	July 12-23, 1997
Workshop for Primary Teachers of PLAN INTERNATIONAL assisted Schools	University of Education, Winneba (Resource Person)	10-21 September 1998
Regional Conference of the Mathematical Association of Ghana.	University of Education, Winneba (Resource Person)	May 21, 1997
Workshop/Conference of the Mathematical Association of Ghana	Mfanstipim School Cape Coast (Resource Person)	August 23-25, 1996
2 <sup>nd</sup> Edward A. Bouchet Regional College on Functional Analysis and its Application to	Atomic Energy, Kwabenya Accra	July, 11-22, 1996

Differential Equations	(Participant)	
15 <sup>th</sup> Joint Biennial Conference of the West Africa Science Association and 19 <sup>th</sup> Biennial Conference of Ghana Science Association of Ghana	University of Cape Coast (Participant)	22-24, September 1995

## PROFESSIONAL DEVELOPMENT:

Table 13 shows my involvement in training sections and in-service training for schools and institutions as one of the resource persons for mathematics.

*Table 13: Professional Development*

Course Title	Location	Period
Workshop for JHS mathematics Teachers	Akerten Appiah-Menka University of Skills Training and Entrepreneurial Development (AAMUSTED)	September 6-7, 2021
Pupils' Maths. Camp for selected upper primary Pupils	University of Education, Winneba	27-31August, 2018
In-Service Training for Mathematics Teachers of Adumang SHS and Assin- nsuta SHS on the Integration of ICT in the teaching of mathematics.	Adumang SHS	21 <sup>st</sup> March, 2018
In-Service Training for Mathematics Teachers of Adumang SHS and Assin- nsuta SHS on the Integration of ICT in the teaching of mathematics.	Adumang SHS	4 <sup>th</sup> April, 2018
Review and Validation of Competency Based Training (CBT) Programme for Generic Courses COTVET Project Support	Capital View Hotel, Koforidua	6-8 December, 2017
Proposal Writing & Research Writing	UEW, Winneba	April 18, June 12, 2017
Distance Education Materials Writers 'Workshop	Capital View Hotel, Koforidua	February 1-5, 2016
Workshop for UEW lecturers on student Internship Programme	UEW, ICT Main Laboratory, South Campus	January 18-19, 2016
Quantitative and Qualitative Data Analysis	Smayak Hotel, Apam	September 1-2, 2014
Course Structure of Mathematics Education of the UEW	Nakaans Hotel, Cape Coast	August 22-24, 2014
The Use of Multimedia Tools for Lecture Delivery	UEW, North Campus, Faculty Block	August 4, 2014
Courseware Development Writing	UEW, South Campus	June 16-17, 2014
Information Literacy Workshop for Faculty members	UEW, South Campus, ICT Laboratory	January 20-21, 2014

## UNIVERSITY SERVICES

I have been a member of several boards and committees and have served in several capacities in the University. Table 14 gives full details of my activities in each committee.

**Table 14: Service to the University**

Name of Committee(s) and/or Board(s)	Position or role	Period
Community Apprenticeship Initiative Programme Sub-Committee on the Vice-Chancellors Community Initiative Programme (VCCIP)	Chairman	August 25, to date
Council Sub-Committee set up to review the Appointments and Promotions Policy for senior members, Kumasi Technical University	Member	October 19, 2023
Search Committee for Appointment of Pro-Vice Chancellor, Kumasi Technical University	Member	October 19, 2023
Conference Organising Committee-7 <sup>th</sup> International Multi-Disciplinary Conference for Postgraduate Students	Chairman	June 15, 2023
Search Committee for Appointment of Vice Chancellor, UEW	Member	June 7, 2023
Conference Abstract and Full Paper Review Committee of the Faculty of Social Sciences Education, UEW	Member	June 2, 2023
Search Committee for Appointment of Principal of College of Distance and e-Learning, UEW	Member	June 20, 2023
Search Committee for Appointment of Senior Management Members of Komenda College of Education	Member	May 22, 2023
Search Committee for Re-Appointment of Principal of Komenda College of Education	Chairman	February 15, 2023
Conference Organising Committee- 6 <sup>th</sup> International Multi-Disciplinary Conference for Postgraduate Students	Chairman	July 15-16, 2022
Search Committee for Appointment of Pro-Vice Chancellor and Senior Management members, Kumasi Technical University		
Review Committee of 4-Year Draft College Strategic Plan, Komenda College of Education	Chairman	December 5. 2022
Hospital Board (University of Education, Winneba)	Member	December 10, 2021-Present

Institute for Teacher Education and Continuing Professional Development (ITECPD), UEW	Reviewer	December 1, 2021-present
Team to Visit UEW Affiliate Institutions	Team Leader	November 24-December 2, 2021
Committee to write a new proposal for the split of Faculty of Science Education	Member	November 23-Decmeber 22
Committee to Draft Guidelines and Assessment Book for Student Attachment Programme (SAP)	Chairman	October 26-November 26, 2021
Inspection team to inspect the new campus of Asanska University College and Technology, Oyibi-Accra	Team Leader	November 24, 2021
Conference Organising Committee- 5 <sup>th</sup> International Multi-Disciplinary Conference for Postgraduate Students	Secretary	July 15-16, 2021
UEW Statutes Review Committee	Member	January 2018 - January2020
Journal of Science Education and Research (JOSER)	Editor –in-chief	2015-Present
Committee to fine-tune the UEW Policy for Graduate Students	Member	December 2017-
Academic Board, University of Education, Winneba	Member	September 2009-Present
Faculty Board, Faculty of Science Education, UEW	Member	September 2015-Present
Joint Admissions Board, UEW	Member	September 2015-Present
Appointment and Promotions Committee, UEW, Winneba	Member	November 2017-Present
Appointment and Promotions Board, UEW, Winneba	Member	December 2014-2017
Student-Staff Consultative Committee	Member	September 2015-Present
Finance and Development Planning Committee, UEW	Member	September 2015-Present
Research, Conferences and Scholarships Committee, UEW	Member	September 2015-Present
Faculty Appointments and Promotions Committee, Faculty of Science Education, UEW	Chairman	September 2015-Present
Awards Committee, University of Education, Winneba	Member	October 2016
Administrative Committee	Member	September 2015-Present
Scholarship Committee of the Vice-Chancellor's Scholarship Fund (VCSF), UEW	Chairman	September 2016-Present
Schools Management Committee, UEW	Chairman	September 2016=Present

Academic Board Nomination to Serve on Search Committee for the Appointment of the Principal for the College of Agricultural Education, Mampong	Member	September, 2016
Committee to Assess new Programmes under University College of Management Studies	Member	July 2016
Committee Charged to design programmes for Colleges of Education as they transit to Tertiary Status	Member	June 2016
Committee to assess the Evangelical Presbyterian University College Application for Affiliation	Chairman	June 2016
Faculty Graduate Committee, Faculty of Science Education, UEW	Chairman	September 2015-Present
Fact-Finding Committee on Examination at IEDE	Member	February 2016
Sub-Committee of Academic Board on Final year results of four affiliate institutions	Member	April 2016
Committee charged to design programmes for Colleges of Education as they transit to tertiary status	Member	April 2016
Executive Committee, University of Education, Winneba	Member	September 2015-Present
Board of School of Graduate Studies	Member	September 2015-Present
Academic Planning Committee	Member	September 2015-Present
Committee to Assess the possible Collaboration between Oduduwa University, Nigeria and the University of Education, Winneba, Ghana	Chairman	September 2015-April 2016
Committee to investigate the authenticity of the allegation from Challenging Heights on Mr. John Eduafo, a student from HPERS Department	Member	July 2015
Committee on Grievances and Complaints made by Ms. Anna Anthonita Mensah	Member	July 2015
Committee to investigate into alleged Examination Malpractice at the department of Political Science Education	Chairman	December 2015
Committee to Investigate Insubordination towards a superior	Chairman	January 2015
Committee on the theft of mobile phone by Mr. Josiah Timpone	Chairman	February 2015
Governing Council, Academic City College, Accra	Member	February 2015-Present

Disciplinary Committee on theft of Generator at the Basic Education Department	Chairman	April 2015
Disciplinary Board to study recommendations of the Committee tasked to Investigate issues arising from the Department of French Education on Dr. Peter Pryce	Member	November 2015
Appointment and Promotions Board, UEW, Winneba	Member	December 2014-2017
Board of Directors, BIMAKS College of Business and Health Sciences, Agona Swedru	Member	January 2014-present
Medical and Environmental Committee of GUSA Games, UEW, Winneba	Member	October 2014
Investigation Committee on Examination Malpractices at IEDE Dambai Study Center	Chairman	September, 2014
Investigation Committee on alleged threat on the life of Rev. Kwesi Nkum Wilson	Member	June 2014
Faculty Journal Review Committee, Faculty of Science Education, UEW	Editor-in Chief	March 2014-Present
Governing Council, University of Education, Winneba	Member	January 2014-January, 2016
Faculty of Accounting & Finance Appointment & Promotions Review Committee, University of Professional Studies, Accra	Member	February 2014-16
Campaign Steering Committee, UEW	Member	June 2012
Faculty Board, Faculty of Science Education, UEW	Member	September 2009-Present
Departmental Board, Department of Mathematics Education, University of Education, Winneba	Chair	September 2011-2014
Tender Board, University of Education, Winneba	Member	September 2009-2013
Ghana Universities Staff Superannuation Scheme (GUSSS) Management Board, University of Education, Winneba	Member	September 2009-2013
National Executive Committee, University Teachers Association of Ghana (UTAG)	Member	September 2011-2013
National Executive Committee, University Teachers Association of Ghana (UTAG)	Chairman	September 2009-2011
National Executive Committee, University Teachers Association of Ghana (UTAG)	Member	September 2006-2009
Council of Mathematical Association of Ghana	Member	September 2006- Present

Faculty Board, Faculty of Science, University of Education, Winneba	Member	September 2005- Present
Project Management Board, Netherlands Organisation for International Cooperation in Higher Education (Nuffic). Project Title: Strengthening Mathematics and Science Teacher Training to Improve the Quality of Mathematics and Science Teaching in the Teacher Training Colleges	Member	May 2005-2010
National Executive Committee, University Teachers Association of Ghana (UTAG)	Member	September 1999-2001
Editorial Board, Ghana Mathematics Group	Member	January 1995-December 1998

## COMMUNITY SERVICE

I have taken the advantage of my profession as university lecturer to serve the university community and beyond in various capacities. I served as the National President of the University Teachers Association of Ghana (UTAG) and National President of the Mathematical Association of Ghana (MAG) and the feedback I received showed that I was very successful as a national leader in both Associations. These positive comments could be attributed to my good leadership style, humility, my respect for authority and humanity and as an excellent team player. Please see Table 14 for more details.

*Table 14: Community Service*

Name of Institution/Organisation	Position(s) held (if applicable)	Period
Efutu Municipal Health Management Committee	Member	2019-Date
Council of Elders, NPP Efutu-Constituency, Winneba	Member	2012-Date
Sunyani Technical University (STU), Faculty of Applied Science and Technology Advisory Board	Member	February 2020-Present
BIMAKS College of Business and Health Sciences. Board of Directors	Member	2019-Date
Arkcity-Link Foundation	Chairman, ICT Quiz Competition Grand Finale	October 25, 2017
St. Paul Methodist Preparatory School, Winneba	Chairman, Seminar for JHS3 Pupils on Preparation towards BECE	March 10, 2017
University Teachers Association of Ghana (UTAG)	National President	August 2009-2011

Mathematical Association of Ghana (MAG)	National President	August 2012-2016
University Teachers Association of Ghana (UTAG), University of Education, Winneba Branch	President	March 2009-2013
Mathematical Association of Ghana (MAG)	National Vice President	September 2008-2012
University Teachers Association of Ghana (UTAG), University of Education, Winneba, Branch	Secretary	September 2006-August 2009
Mathematical Association of Ghana, Central Regional Branch	President	September 2006-August 2008
University of Education, Winneba	Patron Air Force Cadet Coups	September 2011-Present
Amu Hall, University of Education, Winneba	Hall Fellow	September 2008-2013
University of Education, Winneba	Honorary Coach Soccer team	September 2008-2014
Africa House Program, Living/Learning Center University of Vermont (USA)	Program Director	March 2002-December 2005
University Teachers Association of Ghana (UTAG), University of Education, Winneba Branch	Secretary	September 1999-August 2001
Air Force Cadet Coups University of Education, Winneba	Patron	September 2011-Present
Parent Teachers association (PTA), Sinclair International School, Winneba	Chairman	September 2006-2011
Rotaract Club University of Education, Winneba	Patron	January 2005-2013
Eastern Region Students Association, University of Education, Winneba	Patron	September 2005-Present
Africa House Seminar University of Vermont, USA	Coordinator	September 2002-January 2005
Table Tennis Club University of Vermont (USA)	Faculty Advisor	February 2003-January 2005

## PROFESSIONAL SERVICE ACTIVITIES

Table 15 presents my services to the university as far as my professional activities are concerned. Here I offered consultancy services to various groups of people according to their needs

*Table 15: Professional Service Activities*

Topic	Presentations	Location	Period
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Orientation for Fresh Graduate and Undergraduate students, UEW	<i>The Role of the Office of Institutional Advancement (OIA) of the UEW</i>	University of Education, Winneba.	September 6 &11, 2018
Orientation for Deans and Heads of Department, (Winneba and Ajumako Campuses)	<i>The Role of a Departmental Head at UEW</i>	Manna Heights Hotel, Mankesim	October 26-27, 2017
Arkcity-Link Foundation ICT Competition, Grand Finale	<i>The Role of ICT in our Contemporary World</i>	Winneba, Main Lorry Station	October 25, 2017
Research and Thesis writing Workshop for Doctoral students, Institute for Educational Research and Innovation Studies (IERIS). UEW	<i>Research and Thesis writing, in the Sciences</i>	University of Education, Winneba.	November 19-20, 2014
Presentation and Interaction with students from Ghana Secondary Technical School (GSTS) Takoradi	<i>University Programmes and their Career Choice</i>	Ghana Secondary Technical School (GSTS) Takoradi	November 21, 2014
Parliamentary Select Committee on Education Seminar on key areas of Quality Education	<i>Efficient Monitoring and Supervision: An introspective View of the Existing Strategies of the Ministry of Education</i>	MJ Grand Hotel, East Legon, Accra	March 21-23, 2014
African Institute for Mathematical Sciences, Ghana (AIMS-Ghana)	<i>Mathematics at AIMS in Relation to Mathematics Education</i>	University of Cape Coast	February 14, 2014
Capacity Building Seminar for Secretaries, Security Personnel and Drivers of Central Region Development Commission (CEDECOM).	<i>Becoming a Highly Sophisticated Machine</i>	CEDECOM Conference Hall, Cape Coast	May 4-7, 2009
Capacity Building Seminar for Secretaries, Security Personnel and Drivers of Central Region Development Commission (CEDECOM).	<i>Setting Minor Goals in line with Organizational Goals</i>	CEDECOM Conference Hall, Cape Coast	May 4-7, 2009

## MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

I belong to the following professional Associations. See Table 16 for more details

**Table 16: Membership of Professional Associations**

Name of Association	Position held (if applicable)	Period
American Mathematical Society	Member	2013-Present
London Mathematical Society	Member	2013-Present
University Teachers Association of Ghana (UTAG)	National President	2009-2011
University Teachers Association of Ghana (UTAG)	President, University of Education, Winneba Branch	2011-2013
Mathematical Association of Ghana (MAG)	National President	2012-2016
Mathematical Association of Ghana (MAG)	National Vice President	2010-2012
Ghana Mathematical Society (GMS)	Member	2011-Present
Exams Ethics International Marshal	Member	2011-Presnt

## **GRANTS, HONOURS, AWARDS, PRIZES OR PROFESSIONAL RECOGNITION AND OTHER KEY ACCOMPLISHMENTS:**

### ***Contribution to teaching and learning through donation of various mathematics textbooks***

On my own initiative, I took delivery of more than two hundred assorted mathematics textbooks and donated them to the Faculty of Science Education library. These textbooks were sponsored and shipped by the University of Vermont, Burlington and First United Methodist Church, Burlington, Vermont on completion of my research work leading to the award of PhD in mathematics. They include Calculus, Algebra, Statistics and Probability, Mathematical Analysis, Abstract Algebra, Linear Algebra, Differential Equations, Numerical Analysis and ICT software. (2005).

**Table 17: Awards**

Name/Type of Award	Awarding Institution or Organisation	Period
Best Lecturer in the Sciences Award	University of Education, Winneba	2009
Modern-Day Technology Leader	19 <sup>th</sup> Annual Black Engineer of the year awards conference, Baltimore, Maryland, USA	2005
Scholarship for further Studies in the USA	Ghana Government	2001-2005
Scholarship for further Studies in the Soviet Union	Ghana Government	1984-1990,

## **STUDENT DEVELOPMENT:**

For the past thirty-one years of teaching at the tertiary level (UCC and UEW), I have supervised students work on various levels, (Project work, MEd, MPhil and PhD). Supervision of research on the various levels are still on-going. I have provided a list of some selected works.

## **SUPERVISION OF POSTGRADUATE STUDENTS' THESIS**

### **A Supervision of PhD Thesis**

Ernest Kwaku Ofosu (2025). *Investigating Computational Thinking and its Effect on Problem Solving Among Pre-Service Teachers in Mathematics. (University of Education, Winneba)*

Robert Benjamin Armah (2023). *Flipped Classroom Adapted to the Arcs Model of Motivation: Exploring Prospective Mathematics Teachers' Acceptance, Satisfaction and Geometric Thoughts. (University of Education, Winneba)*

Moses Agyemang (2023). *Factors Influencing Colleges of Education Mathematics Tutors' Engagement in, and ability, towards Creating Equitable Learning Opportunities in Inclusive Pre-Service Teachers' Classrooms. (University of Education, Winneba)*

Judith (2023). *Extending Teacher Collective Efficacy to Instructional Leadership. (Accra Institute of Technology)*.

Richard Asumadu Oppong (2023). *Demand for Senior High School Mathematics Teachers and Their Preparedness to Implement an Inclusive Education Mathematics Curriculum. (University of Education, Winneba)*

Rosemond Wilson (2023). *Factors Influencing Students' Performance in Core Mathematics in Some Selected Senior High Schools in the Greater Accra Region of Ghana. (University of Education, Winneba)*

Buah Ahoba, Masha (2023). *Analytical Study of Oil Consumption of OPEC based on Extreme Value Theory and Artificial Intelligence. (University of Mines and Technology)*.

Ashiboe-Mensah, Kofi (2021). *Investigating the Instructional Strategies of Mathematics in the Colleges of Education. (University of Education, Winneba)*

Adu Obeng, Benjamin (2020). *Senior High Schools Teachers' Prospective Teachers and Students Conceptual Misunderstanding on SHS School Algebra. (University of Education, Winneba)*

Owusu-Ansah Nana Akosua (2020). *The Effect of Differentiated Instruction on Junior High School Students' Algebraic Reasoning in the Winneba Municipality, (University of Education, Winneba)*

Ali, Mohammed (2019). *Investigating the Impact of Inquiry-Oriented Instructional Approach (IO-IQ) on Teaching and Learning of Partial Differential Equations to Undergraduate Students of UEW. (University of Education, Winneba)*

Yarhands, Dissou Arthur (2018). *Assessing Factors that Influence Students 'Interest in Mathematics in SHS in Ashanti Region, Ghana. (University of Education, Winneba)*

Armah, Gloria (2017). *Students' Conceptual Understanding of the Arithmetic Mean and the Standard Deviation: A Case Study at the University of Education, Winneba. (University of Education, Winneba)*

Anang, Martha (On-going). *Support Systems as Determinants of Career Choice and Sustainability among Female Academics in the Universities. (Accra Institute of Technology)*

## **B Supervision of MPhil Thesis**

Charles Amoah (2022). *Investigating the Factors Influencing the Attitudes of Students Towards the study of Mathematics in Asokore D/A Trinity JHS in the Sekyere East*

Isaac Prince Ayetey (2022). *Students' WASSCE Performance in Core Mathematics in Core and Elective Mathematics: A Case Study of Breman Asikuma SHS*

Collins Fordjour Nkrumah (2021). *Effects of Collaborative Learning and mathematics Achievement on Gender groupings of College of Education in Ghana*

Jemima Saah (2021). *Investigating Factors Influencing Women's Participation in STEM Programmes in Ghana and its' Implication for the Girl Child District-Ashanti Region*

Archer George (2021). *The Effect of GeoGebra Module for Teaching Geometry on Students' Geometric Thinking Levels, Motivation to Learn and Engagement in Student-Centred Learning*

Jackson Jessel Aboagye-Agbi (2019). *The Nature and Causes of Mathematical Anxiety Among SHS Students*

Rita Ama Obeng-Yeboah (2019). *Effect of Cooperative Learning on Female Students' Achievement Towards Algebraic Fractions of SHS*

Bukari, Hamidu Ibrahim (2019). *Effect of Problem-Based Learning on College of Education Students' Achievement in and Attitude Toward Probability. University of Education, Winneba.*

Baidoo, Henrietta (2017). *The Effect of the Use of Balance Model on JHS Students' Ability to Solve Linear Equations in One Variable. University of education, Winneba*

Darko, Jacob (2017). *Co-operative Learning in Mathematics: Implications and Effect on Students Self-Efficacy and Achievement. University of education, Winneba.*

Seneadza, Gladys (2017). *Teachers' and Students' Perceptions on the Use of ICT Softwares in SHS Mathematics Lessons. University of Education, Winneba.*

Nana Sam, Leticia (2016). *Pre-Service Teachers' Content Knowledge for Teaching Algebra at the Basic Level: A Case Study of selected Colleges of Education in Central Region. University of Education, Winneba.*

Kittoe, Josiah Doan (2016). *Exploring Fraud and Abuse in National health Insurance Scheme (NHIS) Using data Mining Technique a Statistical Model*. University of Education, Winneba.

Badzi, Kofi Fernand (2015). *The Effect of Teachers' Personality and Behaviour on Students' Motivation in Studying Mathematics*. University of Education, Winneba.

Hagan, John Ekow (2015). *Students' Perception Towards Mathematics and its Effects on Academic Performance: A survey of Selected SHS in the Kumasi Metropolis*. University of Education, Winneba.

Asemani, Emmanuel (2015). *The Geometric Thinking Levels of SHS Students in Ghana*. University of Education, Winneba.

Obeng, George (2013). *The Effect of Spreadsheets on Pre-Service Teachers' Understanding of Quadratic Functions and Their Self-Efficacy Beliefs*. University of Education, Winneba.

Dugbatey, Timothy (2013). *Mathematics Teachers' Knowledge, Awareness and Preparedness to Implement the Teaching of Problem solving in the Reviewed Syllabus of Senior High Schools in Accra Metropolis*. University of Education, Winneba.

Agyemang, Moses (2012). *Technology Use Among Ghanaian Senior High School Mathematics Teachers and Students and Factors that Influence it*. University of Education, Winneba

Awuah, Baffour, Jacob (2009). *Perception of Interest in Mathematics among Female Teachers in Teacher Training Colleges in Ghana*. University of Education, Winneba.

Agbenyega, Brian Kwami (2008). *Teachers Perception of ICT in the Senior High School Mathematics Curriculum: A Survey of Teachers in the Eastern Region of Ghana*. University of Education, Winneba.

## C Supervision of M.Ed. Dissertation

Asumadu, Evans (2019). *Investigating Strategies to Improve the Performance in Mathematics; A Case Study in Kwaebibirem Municipal Assembly*. University of Education, Winneba

Bukari, Hamidu Ibrahim. (2019). *Effect of Problem-Based learning on College of Education Student's Achievement in and Attitude Towards Probability*. University of Education, Winneba

Ayeetey Isaac Prince (2019). *Technology Integration in the Teaching and Learning of Mathematics*. University of Education, Winneba

Takyi, Vida, (2019). *Technical Students' Attitude Towards the Learning of Mathematics in Koforidua Technical Institute*. University of Education, Winneba

Mensah, Gertrude (2019). *Improving Students' in Algebra using constructivist-based teaching method in Asunafo D/A SHS in the Atiwa West District*. University of Education, Winneba

Aye-Boafo, Oduro Noble (2019). *Using Graphical Method to Enhance Students' Performance on Simultaneous linear Equations in two Variables*. University of Education, Winneba.

Adjei, Gloria Odarkor (2017). *Assessment of Female Student's Attitude Towards the*

*Study of Mathematics at Abokobi Presbyterian JHS, Accra. University of Education, Winneba.*

Gabienu, Divine (2017). *Using Graphical Method Aided by Microsoft Excel to Improve the Performance of Form Two Student's of Takoradi Technical Institute in Solving Simultaneous Linear Equations in Two Variables.* University of Education, Winneba.

Archer, George (2016). *The Van Hiele Levels of Geometric Cognitive Development and Students; Attitude Towards Geometry of SHS in Ghana.* University of Education, Winneba.

Binipom, Agnes Jomawam (2016). *The Impact of Ghana school Feeding Program on Education Delivery in Wa Municipality in the Upper West Region of Ghana.* University of Education, Winneba.

Darko Bram, Charles (2016). *Investigation of Students' Knowledge and Attitudes Towards SHS Statistics.* University of Education, Winneba.

Nwi-Mozu, Isaac (2015). A Time Series Model Approach in Formulating a Mathematical Model for Finding Yearly Public Basic Education Enrolment in Ghana. University of Education, Winneba.

Dzradosi, Vivian Enyonam (2015). Supervision in schools and its Effect on Academic Performance in JHS in Ayensuano District. University of Education, Winneba.

Essandoh, Vivian Oforiwa (2015). Challenges Women Encounter in Assessing Higher Education with Special Reference to Takoradi Polytechnic. University of Education, Winneba.

Bofah, Prince (2014). *Evaluating the School Based Assessment Programme in Mathematics-A Survey in Goaso Basic Schools.* University of Education, Winneba.

Agormeda, Mabel (2014). *Using Problem Solving Approach to Improve Students' Performance in Linear Equations in One Variable.* University of Education, Winneba.

Amoako, Johnson (2014). *Using the Balance Model to Improve the Understanding of the Principles of Solving Linear Equations in One Variable.* University of Education, Winneba

Boakye-Mensah, Evelyn (2013). *A Comparative Study of the Supervisory Roles of Head Teachers in Public and Private Junior high Schools in the Mfantseman West Municipality.* University of Education, Winneba.

Darko, Harriet Takyiwah (2013). *Teacher Motivation as a Tool for School Performance: A Case Study at Ashongman D/A JHS.* University of Education, Winneba

Abugri Alem Augustine (2013). *Using Numeral Die Activities to Improve Students' Understanding of Indices.* University of Education, Winneba.

Baah, Isaac (2013). *The Impact of Economic activities on students' academic Performance in the Birim Central Municipality.* University of Education, Winneba.

Asante-Kroba, Kwaku (2012). *Beliefs About Low Back Pain Among Sedentary Desk-Based workers of Tertiary Educational Institutions of Nursing.* University of Education, Winneba.

Djondo Bright Ignatius (2012). *The Use of Multi-Base Blocks to Improve upon Teacher Trainees' Ability to Teach addition and Subtraction of Decimals at the Basic School Level*. University of Education, Winneba.

Tornu, Patience Mawuse Esi (2012). *Ineffective Utilization of Instructional Hours by School Management and Teachers: A Case study of Selected Basic Schools in Koforidua Municipality*. University of Education, Winneba.

Braima, Antoinette (2012). *Guidance Services for Choosing Senior High School Programmes*. University of Education, Winneba.

Togah, Frederick Kwasi (2012). *Improving Performance of Second Year Students of Dambai College of Education in Teaching Addition and Subtraction of Fractions with Unlike Denominators Using Cuisenaire Rods*. University of Education, Winneba.

Fletcher, Abraham (2012). *The Impact of Information and Communication Technology on Instruction Delivery in the Senior High Schools in the Tema Metropolis*. University of Education, Winneba.

Ganyoh, Lucas Anazo (2012). Using Balanced Scale Approach to Alleviate the Conceptual Problem Faced by Visual arts Students in Solving Linear Equations in One Variable. University of Education, Winneba.

Bawa, Luriwie Gomina (2012). A Study of Parental Involvement in Education and Students' academic Achievement in Savelegu Senior High School in Northern Region. University of Education, Winneba.

Anochie, Joseph Kweku (2012). *Using Multi-Base Blocks to Improve the Ability of Teacher Trainees in Teaching Place Value*. University of Education, Winneba.

Azambawu, Paulina (2012). *Managing Instructional Hours in Public Basic Schools in the Techiman Municipality*. University of Education, Winneba.

Fiakumah, Wilson Kofi (2012). *Using Beam Balance to assist Students to Improve on their Conceptual Knowledge of Linear Inequalities in One Variable*. University of Education, Winneba, Department of Mathematics Education, Winneba.

Tetteh, Ruth (2012). *Factors Affecting Pupils Performance in mathematics in Junior Secondary Schools in Eastern Region of Ghana*. University of Education, Winneba.

Baidoo, Charles Kofi (2011). *Using Discovery Approach to Improve Students' Performance in Circle Theorems at Wesley College of Education*. University of Education, Winneba.

Owusu, Kennedy (2011). *Enhancing the Understanding of Pre-Service Teachers' in Solving Probability Problems Using External Visual Representations (EVRs)*. University of Education, Winneba.

Kissi, Siaw Philip (2011). *Using Guided Method to Reduce Students' Difficulties in Applying Pythagoras' Theorem*. University of Education, Winneba.

Agyemang Duah, Julliet (2010). *Factors Determining Truancy and Absenteeism in the Kwadaso Circuit Basic Schools*. University of Education, Winneba.

Fordjour, Nkrumah Collins (2010). *Using Geometer's Sketchpad to Improve Teacher-Trainees Performance in Area and Perimeter of Rectangles, Area and Circumference of a Circle*. University of Education, Winneba.

Ananey-Aboagye, Michael (2009). *Use of Cuisenaire Rods to Improve Practicing*

*Teachers' Teaching ability in Addition and Subtraction of Fractions at St. Frances' Training College.* University of Education, Winneba.

## MENTORSHIP

I have mentored and continue to mentor faculty and senior administrative staff of the University of Education, Winneba, in respect of research and publications and PhD writing skills, from various disciplines. Please see Tables 19 and 20.

**Table 19: Mentorship**

Area of Development	Number of Staff Mentored
PhD Thesis Writing	15
Research and Publications	19

The following is a list of some mentees from faculty and senior administrative staff. Among the many responsibilities as a mentor, I help develop the research skills of the mentees, help set realistic goals and provide encouragement to achieve them, help mentees publish at least one paper by the end of the mentoring period (one year) and help develop the interpersonal and writing skills of mentees.

**Table 20: Mentees and their Departments**

Name of Mentee	Department
Ms. Harriet Okoh	English Education
Ms. Bliss Acheampong	English Education
Mr. Prince P.K.M. Taylor	Registry, Ajumako, Campus
Ms. Cynthia Logogye	English Education
Mr. Simon Kormla Donkor	Basic Education
Mr. Michael Subbey	Early Childhood Education
Mr. Collins Sesi Akotey	Special Education
Ms. Doreen E. E. Yegblemenawo	French Education

## HOBBIES

- I loved to play football during my youthful days and I still love to watch the Premiership especially whenever Chelsea (The Blues) is in action.
- I play Table Tennis in my leisure times to avoid vigorous running.
- I always listen to music when doing academic work. Music relaxes my mind.

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