TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Levina Ansong Owusu Title: Ms

B. Educational Background

Degree:	*Year*	*University*	*Major*	*Thesis/Dissertation*
Masters	2014	Kwame Nkrumah University of Science and Technology	Industrial Mathematics	Structural Analysis of Stock Prices and Some Macroeconomic Indicators in Ghana
Bachelors	2010	University of Education, Winneba	Mathematics Education	Using P's Activity – Based Technique to help students overcome their difficulties in expressing recurring decimals as common fractions at Aburi Girls' Senior High School.

C. University Experience:

University of Cape Coast, College of Distance Learning, Senior Course Tutor (Mathematics) May 2017 - August 1, 2024.

I facilitated and delivered interactive sessions to trainee students and teachers in Mathematics during weekends. Some of the courses I taught included; Mathematics for Secondary School Teacher I, II, III, IV, V, Methods of Teaching Secondary School Mathematics I, II, III, Probability & Statistics and Educating the Special Individual. I taught an average of 80 Diploma and Bachelors Degree (Level 100 - Level 400) students every academic year.

D. Relevant Professional Experience

African Science Academy, Tema ***June 2016 – August 1, 2024***

- **Pioneering Deputy Head Teacher & Curriculum Lead Jan. 2021 – August 1, 2024**
  I set high quality academic standards, and committed to student and staff development and care. I maintained and developed a culture that promoted inspired teaching and

outstanding learning experiences. I also played a crucial role in the development and use of existing and emerging learning resources to ensure the continuous improvement of the learning experience and outcomes for students. I continuously monitored, evaluated and reviewed the academic performance of the students, taking all action necessary to achieve successful outcomes.

- **Pioneering Teacher of Mathematics & Head of Academics** ***June 2016 – August 1, 2024***
  In my role I delivered stimulating lessons to my students ensuring they achieved outstanding results. I led on academics ensuring that the lessons delivered are in line with the school vision, and teachers were supported to deliver their best. I also worked with the leadership team at Star basic School, Tema community 5, and implemented a community Service program where ASA students teach math and science to the basic school students.
- **Co - ordinator and Facilitator, ASA Math Masterclass Aug 2017 – Aug 1, 2024**
  I am passionate about sharing good practice, so I initiated, and led the ASA Math Master Class where I have trained over 700 SHS math Teachers from all 16 regions of Ghana. I led the math teachers on Technology in the Math Classroom & Gender, Inclusion and Differentiation topics.

Aburi Girls' Senior High School ***Sept 2011 – May, 2016***

- **Teacher of Mathematics**
  Having a passion for making a difference, I delivered interesting lessons to convince more girls to pursue math. I enjoyed seeing the girls excel and became the Assistant Local Coordinator for the National Science and Math Quiz. Wherever possible I ensured that the girls I was teaching were able to excel, I took on the responsibility of the Robotics club and empowered the team to represent Ghana in Indonesia and Russia. I believe in holistic development, hence took responsibility for the school choir and assisted whenever
  possible

E. Other Professional Credentials (licensure, certification, etc.)

- Republic of Ghana Teachers' License (Issued by the National Teaching Council, Ghana) August 2023
- Executive Certificate in School Administration, African Centre for Capacity Building (AFCAB) July 2021

II. TEACHING

A. Teaching Honors and Awards:

- **Best Teacher Award -** Partner Schools Global Network (PSGN) Awards (British Council, Ghana) - November 2018.
- **Outstanding Teacher of the Year 2013 -** An award by The Headteacher, Board of Governors and the Parent Teacher Association of Aburi Girls' Senior High School.
- **A Gold Award for the Best Mentor / Coach'** by the Ghana Robotics Academy Foundation (GRAF) (2013)

B. Courses Taught:

- Cambridge International A-Level Mathematics (Pure Mathematics and Probability & Statistics)
- Cambridge International A- Level Further Mathematics (Further Pure Mathematics and Further Probability & Statistics)
- Mathematics for Secondary School Teachers I, II, III,IV,V
- Methods of Teaching Secondary School Mathematics I, II and III
- Probability & Statistics I, II,III
- Mathematics for Junior High School Teachers I, II, III
- Methods of Teaching Junior High School Mathematics I, II, III
- Educating the Special Individual

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

- I have coached and supervised the ASA Robotics & Programming Projects for the past 11 years. I have worked with senior secondary school students from ages 13 - 19. Some recent projects include;

- Eco- Power Bot (recycling & energy generation project) & Smart Hospital Project - 2023/2024 academic year
- Irrigation & Farm Monitoring Systems Project - 2022/23 academic year
- Anti-Rona project and WildLife Protection Unit (WiPux) project - 2021/2022 academic year
- Autonomous rescue System & Multigrain Color Sorter Project - 2019/2020 academic year

D. Courses Prepared and Curriculum Development:

- University of Cape Coast Curriculum for Bachelor of Education, Mathematics, Post Diploma in Education
    - Mathematics for Secondary School Teachers I, II, III,IV,V
    - Methods of Teaching Secondary School Mathematics I, II and III
    - Probability & Statistics I, II,III
    - Mathematics for Junior High School Teachers I, II, III
    - Methods of Teaching Junior High School Mathematics I, II, III
    - Educating the Special Individual
- Cambridge International Advanced Level Mathematics & Further Mathematics
    - Pure Mathematics and Probability & Statistics

  - Further Pure Mathematics and Further Probability & Statistics
- West African Secondary School Certificate Examination Curriculum (WASSCE) Curriculum
  - Elective Mathematics for Form 1, 2 and 3
  - Core Mathematics for Form 1, 2 and 3

E. Teaching Professional Development Activities Attended

- Delegate, 7TH TIME Educators Conference by Ghana International School on the Theme, Unleashing Your Superpower Sept. 30, 2023
- Delegate, Ghana Engage Conference by Kognit. I engaged in the following sessions; The power of pretesting to drive students' engagement and learning, The 5 Ws of the Classroom - Library Collaboration & Are we getting enough from our virtual learning environment? Feb. 11, 2023
- Cambridge International AS & A - Level Mathematics (9709), 2020-2022 syllabus marking Sept 26. 2021
- Cambridge International Examinations online Professional Development Course (Introductory Cambridge International AS and A Level Mathematics (9709) - 9th Dec. 2016
- Cambridge International Examinations Professional Development Course (Extension Cambridge AS and A Level Mathematics (9709)) - 19th – 20th Oct. 2016

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Articles:

a. Refereed Journal Articles:

Title: Structural Analysis of Stock Prices and Some Macroeconomic Indicators in Ghana
Author: Levina Ansong Owusu
Supervised and certified by Dr. Gabriel A. Okyere
Date of acceptance: May 2024
Date Of Publication: 16th October, 2014
Link:Levina Ansong Owusu's publication

2. Conference Proceedings:

a. Refereed Conference Proceedings:

- Delegate, HALI Indaba, Kenya Sept. 2022
- Resource Person – Mathematics Teachers' Forum for Cambridge Schools (British Council) 6th Feb. 2018

- Resource Person - Women Empowerment in S.T.E.M, Abetifi, Ghana 30th March, 2017
- African Women in Tech Conference, Impact Hub Accra 16th Dec. 2016
- Mathematics Association of Ghana National Conference, Wa Aug. 2015
- Renew Your Mind (RYM) Conference, Akropong May 2014

- Organization of Women in Science for Developing World Conference Sunyani July, 2013
- Mathematics Association of Ghana Regional Conference, Suhum Aug. 2012

3. Book Reviews:

- Total Prayer; Keystone to Answered Prayers. Volume 1 by Mike O.A.Asenso, PhD - Reviewed in 2023

B. Works Not in Print:

1. Invited Talks, Lectures, and Presentations:

- Initiator, Coordinator and Facilitator, ASA Regional Math Master Class for Senior Secondary School Math teachers Annually, since Aug. 2017

Presentations on Technology in the Math Classroom, Differentiation tips, Gender and Inclusion, Assessment for Learning

- Facilitator: Activity – Based Approach to revamp Mathematics Teaching, Cape Coast May, 2016
- Facilitator: Activity – Based Approach to revamp Mathematics Teaching -
- Resource Person – Mathematics Teachers' Forum for Cambridge Schools (British Council) 6th Feb. 2018

C. Scholarly / Creative Fellowships, Awards, Honors:

- Texas State Graduate Merit Fellowship - Fall 2024 & Spring 2025
- Doctoral Instructional Assistantship, Department of Mathematics, Texas State University - from Fall 2024
- Ghana Cocobod Award Scheme for Secondary School from 2002 - 2005

E. Media Recognition:

- Graphic Online - Jan 29, 2020 -Levina at Math Masterclass in Volta Region of Ghana
- Daily Guide Network - Jan 21, 2020 -Levina at the ASA Math Masterclass
- Ghana Scientific- June 2017 - Levina and ASA students in London, exchange program
- BBC Focus on Africa - June 2017 -Inspiring African Girls in Science & Math

IV. SERVICE

A. Institutional

- Aburi Girls Senior High School/ Department of Mathematics -

National Service Personnel (Teacher of Mathematics) - Sept. 2010 – Aug 2011

- Intern (Teacher of Mathematics) - Aburi Girls' Senior High School, Aburi Sept. 2009 – Aug 2010
- Star Basic School Community Service - Initiated and let the Community Service in this school by the African Science Academy Students and Teachers - 2017 - 2024

B. Professional:

- **Robotics & Programming Coach** ***August 2013– August 1, 2024***
  I facilitated, trained and guided students to apply concepts learned in Math and Physics to solve real world problems through designing and programming robots as projects. I trained other interested teachers to become robotics coaches.

C. Community:

- GhanaThink Foundation, Tema Konnect - We organize mentoring sessions for young adults on career guidance. We organise clean ups in the Tema Community. I was a mentor at BarCamp 2017.

D. Organization Memberships:

- Member, Mathematical Association of America (MAA) August 2024 - Date
- High Achieving Low Income Access (HALI) Access Network; Co-Chair of Membership Committee September 2022 - Date
- Co-Founder, Breaking Doors Foundation Year 2020
- Ghana STEM Network 2017 - Date
- Ghana Robotics Academy Foundation September 2013-Date
- Mathematics Association of Ghana September 2011 - Date
- Mindset Networks August 2013 - 2023

E. Service Honors and Awards:

- **The Headmistress' Special Award for 'Continuous Dedication and Commitment to Duty** during the 2013/2014 Academic Year' at Aburi Girls' High school.
- **A Gold Award for the Best Mentor / Coach'** by the Ghana Robotics Academy Foundation (GRAF) (2013)

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts: Annual Tullow ASA Math Masterclass for Senior Secondary School Math Teachers Aug2017 – Aug 2024

G. Service Professional Development Activities Attended:

- Delegate, HALI Indaba, Kenya, Co-Chair, Membership Committee Sept. 2022
- African Women in Tech Conference, Impact Hub Accra 16th Dec. 2016
- Renew Your Mind (RYM) Conference, Akropong May 2014