

Curriculum Vitae

Personal Details

Name: Fred Adusei Nsowah; PhD (Mathematics Education), M. Ed (Mathematics Education), B. Ed (Mathematics), HND (Mechanical Engineering)
Subject specialism: Assessment for Learning (AfL), Mathematics Education, Educational Research Methods, Education Assessments, Methods of Teaching Mathematics Educational Statistics and Data Analysis.
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Profile

Fred Adusei Nsowah, holds PhD from University of Tasmania, Australia, specializing in the area of Mathematics teachers' Assessment for Learning (AfL) practices in senior high schools in Ghana. Fred has 20 years of teaching experience at both Ghana (7 years at the basic school, 10 years at senior high school and 3 years at the University College in the rural areas) and Australia. Fred specializes in the area of Mathematics Teachers' Assessment for Learning (AfL) practices in senior high schools in Ghana for his PhD thesis. Fred extensive expertise is shared through courses such as Educational Statistics, Educational Assessments, Method and Teaching of Mathematics, Educational Research Methods, and Secondary Education. He has worked with a number of organizations such as University of Tasmania (Australia), Withrow University College, Konadu Yiadom Catholic Senior High School, Pentecost University and PHG Foundation Africa, all in Ghana.

He is a member of Mathematics Education Research Group of Australasia (MERGA) and He has a number of publications in Assessment for Learning (AfL) practices, STEM Education, Inclusive Education and Persons with Disabilities (PWD).

Fred is a reviewer for the Journal of Educational Research (Taylor and Francis), Mathematics Teacher Education Development (MERGA, Australia) and Editorial Board Member for Pentecost University Educational Journal (Pentecost University, Ghana) where he reviews research works in the area of Mathematics Education, Assessment for Learning (AfL),

Mathematics Teaching strategies and General Teaching Strategies in the classroom, and other areas.

Education:

Higher Education:	University of Tasmania, Australia PhD (Mathematics Education) Area of specialization: Assessment for Learning (AfL), Mathematics Education, Research Methods and Data Analysis.	Sep. 2019- March 2025
	University of Cape Coast, Cape Coast M. Ed (Mathematics Education)	May 2015- Sep. 2016
	Valley View University, Accra B. Ed (Mathematics Education)	Jan. 2007- May 2010
	Kumasi Polytechnic, Kumasi Higher National Diploma	Aug. 1997- Jul. 2000
Secondary Education:	Boa-Amponsem Senior High School, Dunkwa -on- Offin.	Sep. 1992- Dec. 1996

Employment History:

PHG Foundation Africa	Monitoring, Evaluation, Learning and Behaviour Research Lead for four Regions Monitoring of Scouts on the field and Learning Behaviour (MELB) for Young African Innovation Innovates Project by UNDP/Mastercard Foundation in the four Regions of Ghana (Ashanti, Bono, Bono East and Ahafo).	Sep. 2023- Dec.2024
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You At Heart Foundation International (YARFI)	Project Manager, Jamasi School for the Deaf and Blind Monitoring of feeding project by YARFI at Jamasi School for the Deaf and Blind. Weekly and monthly reports for the management Coordinating the activities of the NGO with other department at the hospital.	May, 2024- Date
Pentecost University College, Accra	Teaching Measurement, Evaluation and Assessment. Teaching of Educational Statistics. Preparing course outline and lectures for students in the areas of Assessment, Algebra and Numeracy. Marking of students' work. Preparing of courses structure for the Faculty of Education for accreditation by GTEC	April 2022- May, 2023
University of Tasmania, Australia	Professional Numeracy Tutor Online tutorials for students. Planning schemes of work & lessons and marking students' work. Assessing students' progress. Data analysis of both quantitative and qualitative.	Feb. 2020-July 2020
King's Meadow High school, Tasmania-Australia	Working in partnership with mentees (students) around their goals and program objectives. Planning schemes of work & lessons and marking students' work. Assessing students' progress. Providing pastoral support for students in the form of guidance, encouragement, and tutoring.	Feb 2020-Aug. 2020

You At Heart Foundation International, Asamang-Ashanti	Project Manager, Asamang SDA Hospital Monitoring of their feeding project at Asamang SDA hospital. Supervision of workers under the feeding project. Data collection of the patients admitted at the hospital. Weekly and monthly reports for the management Coordinating the activities of the NGO with other department at the hospital.	May,2015 – Sep, 2019
Withrow University College, Asamang-Ashanti	Statistics Tutor Planning schemes of work & lessons and marking students' work. Assessing students' progress	Jan. 2019 -Aug.2019
Konadu Yiadom Senior High School. Asamang-Ashanti	Head of Department and Mathematics Teacher Supervising all mathematics teachers, classification and assigning teachers to various teachers Planning schemes of work & lessons and marking students' work. Assessing students' progress Providing pastoral support for students	Jan. 2 011-Sep. 2019
You At Heart Foundation International Asamang	Project Manager, Asamang SDA Hospital Monitoring feeding project Supervision of workers under the feeding project Writing of reports Coordinating the other activities of the NGO with other departments at the hospital	May 2015- Sep.2019
Fast Track College,	Mathematics Teacher	Feb. 2017-Apr. 2017

Bedomase	Planning schemes of work & lessons and marking students' work. Assessing students' progress Providing pastoral support for students	
Community Development Vocational Training Institute, Prampram-Accra	Mathematics and Entrepreneurship Teacher Developing new teaching and learning materials for teaching. Planning schemes of work & lessons and marking students' work. Assessing students' progress. Providing pastoral support for students.	Aug.2010-Dec.2010
Ghana Statistical Service, Kumasi	Interns Gathering and collating data on prices of market items.	June 2010-July 2010
West African Senior High School, Adenta-Accra	Mathematics Teacher Planning schemes of work & lessons and marking students' work. Assessing students' progress Providing pastoral support for students	June 2009-Aug. 2009
Rescue Junior High School, Bobriase-Adansi	Mathematics and Science Teacher Supervising special classes for BECE Mathematics and Science teachers candidates Teaching Mathematics and Science at JHS 1 to 3 Jointly responsible for planning mathematics and science quiz Marking of District mock exams of BECE candidates Planning schemes of work and lessons and marking of students' work.	Sep. 2001-Jan. 2007
Savelugu Junior High School	Mathematics and Science Teacher Teaching mathematics and science at JHS 1 and 2	Sep. 2000-July 2001

Savelugu-Tamale Jointly responsible for planning mathematics and science quiz.

Planning schemes of work & lessons and marking students' work

Publications:

1. Nsowah, A.F., Baidoo, S. R., Awudu, S., Addai, C., Yeboah, E. (2025) (Under review). Utilization of Teachers' Assessment for Learning Practices in Ghana: Understanding Opportunities and Challenges Faced by Senior High School Mathematics Teachers. *Mathematics Teacher Education and Development*
2. Adusei-Nsowah, M., Nsowah, A.F., Allen A., Afari, A.S., Agyeman, O.S., & Yeboah, E. (2025). The Grassroots Innovations Scouting: An Inclusive Innovation Approach for Persons with Disability. *European Journal of Special Education Research*.<https://doi.org/10.46827/ejse.v11i3.6052>
3. Nsowah, A. F., Yeboah, E., Osei, D. R., Nimoh V., & Agyeman, O. S. (2025). Examine senior high school mathematics teachers' assessment for learning practices for students' progress and better examination attainment. *European Journal of Educational Studies*. <https://doi.org/10.46827/ejes.v12i3.5900>
4. Nsowah, A. F., Oates, G., Cruickshank, V., Agyeman, O. S. & Osei, D. R. (2024). A qualitative study of the effects of large class size on mathematics teachers' use of assessment for learning practices in Ghana. *International Journal of Innovative Research and Development*. <https://doi.org/10.24940/ijird/2024/v13/i12/DEC24023>
5. Adusei-Nsowah, M., Nsowah, A.F., Annie, A., Afari, A. S., Agyeman, O. S. & Yeboah (2024). (Under review). The Grassroots Innovations Scouting Model Approach in Ghana: An Inclusive Model for Local Community Innovators towards Sustainable Development Goals. *African Journal of Innovation and Entrepreneurship (AJIE)*.
6. Maxwell Opoku Peprah, William Nketsia, Fred-Adusei-Nsowah & Michael-Amponteng (2024). Perception of researchers from non Western countries towards publishing international peer-reviewed journals. *Developing Feedback Literacy for Academic Journal Peer Review* <https://doi.org/10.4324/9781003365662-8>

7. Opoku, M. P., Belbase, S., Nsowah, F. A., Yeboah, K., Nketsia, W., Mohamed, A., & Safi, M. (2023). Coronavirus Disease Vaccination among Persons With Disabilities: Understanding Vaccine Perceptions and Hesitancy in Ghana. *The Linacre Quarterly*, 90(4), 452-471.
8. Lois Odame, Maxwell Peprah Opoku, William Nketsia, Patrick Swanzy, Mohammed Alzyoudi & Fred Adusei Nsowah (2020). From university-to-work: an in-depth exploration into the transition journey of graduates with sensory disabilities in Ghana. *Disability and Society*. <https://doi.org/10.1080/09687599.2020.1804328>.

Conference Papers:

1. Fred Adusei Nsowah and Robyn Reaburn (2022). Senior High School Students' Perceptions of Mathematics Teachers' Assessment Practices in Ghana. Proceedings of the 44th Annual Conference of the Mathematics Education Research Group of Australasia (MERGA). Launceston, Tasmania, pp 66-77.
2. Fred Adusei Nsowah, Robyn Reaburn & Greg Oates (2022). Senior high school mathematics teachers' assessment practices, the factors affecting teachers' use of assessment practices and the effect of teachers' demographics on assessment practices to support students' progress in STEM Education. Proceedings of the 7th International STEM Education Conference, University of Sydney, Australia, November 23-27, 2022.

Radio/Media Encounter: An encounter with Ghana Broadcasting Corporation on International Day of Mathematics in March 2024

(<https://www.facebook.com/gbcghana/vidoes/news-hour-at-2pm/576324211192702>)

For more other information and publications

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=BXK5Me8AAAAJ&citation_for_view=BXK5Me8AAAAJ:2osOgNQ5qMEC

<https://eric.ed.gov/?id=ED623901>

<https://openjournals.library.sydney.edu.au/STEMEC2022/article/view/16359>

<https://www.tandfonline.com/doi/abs/10.1080/09687599.2020.1804328>

<https://ouci.dntb.gov.ua/en/works/7XYOoQq4/>

<https://www.researchgate.net/profile/Fred-Nsowah>

<https://www.taylorfrancis.com/chapters/edit/10.4324/9781003365662-8>

<https://orcid.org/0000-0003-0729-7006>

Webinar/workshop/	Understanding open research for STM: Excellence in peer review: How to be effective peer reviewer	July, 2024
Other training received		
	How to get more involve with journal and develop your career by Sage Author Resource	July, 2024
	Excellence in Peer Review : How to be effective peer reviewer by Francis and Taylor Publishers	July, 2023
	Ashanti Regional Curriculum Vitae Clinic organised by Association of Ghana Industries, SNV and Ministry of Local Government, Decentralisation and Rural Development.	October 2022
	8 steps to build, scale, and sustain a STEAM effort	September 2022
	Evidence-based approach to bridging the gender gap in STEM	
	Quantitative data analysis using Factor analysis for Higher Degree Students by University of Tasmania College of Education.	September, 2022
	Common challenges in Thematic Analysis and how to avoid them by Braun and Clark.	September 2022
	University of New South Whales Arts & Social Sciences Post Graduate Conference on the theme: Relevance, Responsiveness, and Impact.	February 2020

A national conference/workshop offered by the Mathematical Association of Ghana at the University of Developmental Studies, Wa Campus August 2013

A regional conference/ workshop on the rate of change offered by the Mathematical Association of Ghana (Ashanti Region Branch) July 2011

A workshop on attaining independence by Data Bank Ghana Limited. June 2009

Referees:

1. Ass. Prof. Greg Oates
Associate Professor Mathematics Education
Associate Head Initial Teacher Education (AHITE)
Chair, University Course and Unit Proposals Committee (UCUPC)
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3. Dr Maxwell Peprah Opoku
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