Dr. Sylvester Frimpong Ali

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PROFILE

I am a mathematics education and is currently the head of department in the Department of Mathematics Education, University of Education, Winneba. I was once a mathematics tutor in Wesley College of Education, Kumasi before I had an appointment as a lecturer in the University of Education, Winneba in 2914

RESEARCH

Interests	Modelling · Education · Financial Derivatives
Areas	Education · Modeling and Simulation · Applied Mathematics · Experimental and Cognitive Psychology · Statistics and Probability

RESEARCH SUMMARY

5	5	1	0	0.31	20%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 5 publications listed below, 2023–2026. Field-weighted impact is the mean over the 5 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 5 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Head of Department, Senior Lecturer 2014–present
Department of Mathematics Education, University of Education, Winneba, Winneba, Ghana

EDUCATION AND QUALIFICATIONS

Doctrate 2019–present
Department of Mathematics Education, University of Education Winneba, Winneba, Ghana

Doctrate 2019–present
Department of Mathematics Education, University of Education Winneba, Winneba, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Head of Department 2025–present
Department of Mathematics Education, University of Education, Winneba, Winneba, Ghana

Ag. Head of Department 2023–2025
Department of Mathematics Education, University of Education, Winneba, Winneba, Ghana

Graduate Coordinator 2021–2023
Department of Mathematics Education, University of Education, Winneba, Winneba, Ghana

PUBLICATIONS

Journal articles 5

1. Francis Atsu Soku, Gabriel Asare Okyere, **Sylvester Ali Frimpong**, Francis Kwadwo Awuah (2026). An APOS Analysis of Students' Mental Construction of the Unbiasedness of the Maximum Likelihood Estimator. *African Journal of Research in Mathematics Science and Technology Education*. https://doi.org/10.1080/18117295.2026.2693344
2. Frank ADU, **Sylvester Ali FRIMPONG**, Theophilus Kwasi KLU, Veronica NTIM-MANTEAW (2026). Mathematics Teacher Educators' Geometry Pedagogical Content Knowledge: Pre-service Teachers' Perceptions and Instructional Enactment in Colleges of Education in Ghana. *Direct Research Journal of Social Science and Educational Studies*. https://doi.org/10.4314/drjsses.v14i3.5
3. Godfred Osei, Gloria Armah, **Sylvester Frimpong**, Nana Akosua Owusu-Ansah, Stephen Appiah (2025). Pre-Service Teachers' Conceptual Understanding of the Arithmetic Mean: A SOLO Taxonomy Analysis. *International Journal For Multidisciplinary Research*. https://doi.org/10.36948/ijfmr.2025.v07i05.56789
4. Yaw Efa, **Sylvester Ali Frimpong** (2023). Effect of Gender on Senior High School Students' Performance and Perception of Core Mathematics in the Cape Coast Metropolis of Ghana. *African Journal of Educational Studies in Mathematics and Sciences*. https://doi.org/10.4314/ajesms.v19i1.4
5. Nana Akosua Owusu-Ansah, Gloria Armah, **Sylvester Ali Frimpong**, Jones Apawu (2023). Using Differentiated Instruction to Foster Algebraic Thinking in Classrooms. *International Journal of Studies in Education and Science*. https://doi.org/10.46328/ijses.64