

Shadrach Asante

Mathematics Educator | Education Researcher

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ACADEMIC PROFILE

Mathematics educator and education researcher with experience in classroom teaching, teacher education research, mixed-methods and qualitative inquiry, research support, and educational technology. Research interests centre on mathematics learning and teacher education, generative AI, learner participation, classroom discourse, and inclusive education.

RESEARCH INTERESTS

Mathematics education; mathematics teacher education; generative AI in education; educational technology; mathematical reasoning and classroom discourse; multimodal participation and learning analytics; inclusive mathematics education.

EDUCATION

University of Ghana, Legon, Accra

Sept 2018 - Oct 2022

Bachelor of Science in Education (Mathematics)

RESEARCH AND ACADEMIC EXPERIENCE

University of Ghana - Bridging the Gap Inclusive Education Project

Jul 2026 - Present

Research Assistant

- Coordinate literature review, instrument refinement, survey development, participant recruitment, and data preparation for a mixed-methods study of University of Ghana teacher-education graduates.
- Coordinate interviews and focus groups and contribute to data cleaning, research documentation, and academic writing.

RealMindX Education Ltd, Ghana

Present

Director / Secretary | Research Support and Educational Technology

- Provide methodological and analytical support across education and social-science research projects, including research design, instrument development, literature review, data organisation, quantitative and qualitative analysis, interpretation, and research reporting.
- Contribute to SchoolMS and Maths Quest while keeping teaching, learning, and research needs central to product decisions.

University of Ghana, Department of Teacher Education

Nov 2022 - Oct 2023

Teaching / Research Assistant

- Supported undergraduate teaching in Quantitative Research Methods and Action Research in Education and reviewed student research assignments.
- Provided guidance on research design, methodology, data interpretation, and academic writing; mentored students through research challenges and project development.
- Assisted lecturers with research projects and was voted Teaching Assistant of the Year by students in the Department of Teacher Education for 2022/2023.

PUBLICATIONS AND RESEARCH PROJECTS

Kissi, E. F., Asante, S., Maukle, N. A., Akakpo, R., & Quaicoe, C. (2026).

Sankofa in Practice: Pre-Service Teachers' Use of Indigenous Nature Play for Inclusive and Differentiated Classroom Learning.
Manuscript submitted for publication.

- Contributed to methodology, data organisation and curation, formal analysis, coding-framework development, portfolio analysis, visualisation, reference management, and preparation of the original manuscript draft.

Language of Instruction and Mathematics Achievement

2022

Undergraduate research project, University of Ghana

- Quantitative survey of 300 Form 2 students on English-medium instruction and mathematics learning, using descriptive statistics, independent-samples t-tests, and one-way ANOVA.

TEACHING EXPERIENCE

Annan House Community School, Accra

Jan 2024 - Present

Mathematics Teaching Specialist | Full-time

- Teach mathematics across multiple year groups and adapt lessons to learner needs using Cambridge-aligned and school-based learning expectations.
- Provide diagnostic and remedial mathematics support, design differentiated lessons and assessments, and use educational technology to strengthen understanding.
- Monitor learner progress, maintain performance records, communicate with parents, and collaborate with educators.

Faith Community Baptist Complex Schools, Accra

Nov 2022 - Oct 2023

Volunteer Teacher - Core Mathematics | 5 hours per week

- Taught SHS 2 Core Mathematics and prepared GES-aligned lessons, assessments, and feedback.

Faith Community Baptist Complex Schools, Accra

Mar 2022 - May 2022

Student Teacher / Intern - Core Mathematics | 5 hours per week

- Completed a semester-long SHS 2 Core Mathematics teaching internship as part of BSc Education degree requirements.

Benjus Educational Complex

Jan 2015 - Dec 2017

Pupil Teacher

- Taught Mathematics and Integrated Science at Upper Primary and Junior High School levels and planned lessons, assessments, and learner feedback.

SELECTED EDUCATIONAL TECHNOLOGY PROJECTS

Maths Quest

Ongoing

Mathematics learning platform

- Developing a Ghana-curriculum platform with structured skills and prerequisites, teacher-assigned assessments, question-bank tools, misconception tracking, mastery monitoring, historical context, and offline-first access.

SchoolMS - RealMindX Education Ltd

Ongoing

School-management platform

- Contribute to design, testing, troubleshooting, and iterative improvement of the web and Android platform, using generative AI and AI-assisted development tools for prototyping and problem-solving.

INVITED LECTURES AND PRESENTATIONS

University of Ghana, Department of Teacher Education

4 Aug 2026

Invited Guest Lecture - Giftedness, Co-occurring Conditions and Mathematics Education

- Delivered an undergraduate lecture on gifted mathematics learners and implications of co-occurring conditions for teaching, participation, and learning.

LEADERSHIP AND ACADEMIC SERVICE

President, Education Students Association, University of Ghana

2020/2021

- Represented education students in university and faculty engagements, coordinated academic and student-development activities, and created the Office of the Women's Commissioner.

Member, SRC Executive Committee, University of Ghana

2020/2021

- Contributed to student governance, strategic planning, budgeting, and representation of student concerns.

Course Representative, University of Ghana

Sept 2018 - Oct 2022

- Served across all four undergraduate years as a liaison between students and course instructors and supported peer communication and mentoring.

HONOURS, LICENSING AND PROFESSIONAL DEVELOPMENT

- Department of Teacher Education Teaching Assistant of the Year, University of Ghana, 2023.
- Ghana National Teaching Council Teaching Licence - Senior High School Mathematics, 2023.
- IELTS Academic - Overall Band Score 8.0, July 2024.
- International Disability in Education Conference - Certificate of Participation, University of Ghana, 2023.

RESEARCH AND TECHNICAL SKILLS

RESEARCH SKILLS

- Mixed-methods research
- Quantitative research methods
- Qualitative thematic and portfolio analysis
- Survey and instrument development
- Literature review and research synthesis
- Data management, cleaning and interpretation

TECHNICAL SKILLS

- SPSS
- Generative AI tools
- AI-assisted software development
- Educational technology product design
- Google Forms and Google Workspace
- Microsoft Office Suite

LANGUAGES

English, Guan, and Twi.