Ms. Esther Gyimah

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PROFILE

I have ten (10) years of experience as a university teacher and researcher in Information Technology with sound knowledge of teaching, mentoring and supervising undergraduate and postgraduate research projects.

I have worked in the position of a Lecturer, and currently as a Senior Lecturer in the Department of ICT Education in the Faculty of Science Education of my University. I have also served my university in the capacity of Exams Officer, Patron and academic counsellor to students in my department and currently as the general ICT course coordinator.

I have an innate passion for teaching and have taught several courses from year one to year four in our undergraduate ICT Education programme. The value I seek to bring includes offering quality education to my students, encouraging creativity and higher-order thinking in a way that increases students' performance, and collaborating with colleagues in my department and field to conduct cutting-edge research that will improve teaching and learning in my field.

I am passionate about many things - teaching, children, poetry, art, everything food, and animals. I am also passionate about young females getting into IT. I hope to inspire many young females by mentoring them and being a role model for them. My goal is to make an impact on many young females by empowering them and helping them have a sense of connectedness and fulfilment in choosing IT as a career.

RESEARCH

Interests	Cybersecurity · Digital Child · AI Safety · Educational Data Mining
Areas	Computer Science Applications · Information Systems · Artificial Intelligence · Developmental and Educational Psychology · Education · Management Information Systems

RESEARCH SUMMARY

11	124	4	2	2.03	11%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 11 publications listed below, 2013–2025. Field-weighted impact is the mean over the 9 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 9 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer 2021–present
Department of ICT Education, University of Education Winneba, Winneba, Ghana

Lecturer 2014–2021
ICT Education, University of Education Winneba, Winneba, Ghana

EDUCATION AND QUALIFICATIONS

MSc Information Technology for Management 2011–2013
Coventry University, Coventry, United Kingdom

MSc 2011–2013
Ghana Communication Technology University, Accra, Ghana

BSc Information Technology 2005–2009
Computer Science & Information Technology, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 8

1. **Esther Gyimah**, Delali Kwasi Dake (2025). Deep Learning and Statistical Models to Analyse Online Misinformation and Hate Speech Impact on African Youth. *Journal of Information Systems and Informatics*.
2. Delali Kwasi Dake, **Esther Gyimah** (2025). Using Machine Learning Algorithms to Cluster and Analyse Students' Acceptance of Mobile Learning Management Systems. *Informing Science The International Journal of an Emerging Transdiscipline*. https://doi.org/10.28945/5596
3. Delali Kwasi Dake, **Esther Gyimah**, Charles Buabeng-Andoh (2023). University Students Behaviour Modelling Using the K-Prototype Clustering Algorithm. *Mathematical Problems in Engineering*. https://doi.org/10.1155/2023/5507814
4. Delali Kwasi Dake, **Esther Gyimah** (2022). Using sentiment analysis to evaluate qualitative students' responses. *Education and Information Technologies*. https://doi.org/10.1007/s10639-022-11349-1
5. Delali Kwasi, **Esther Gyimah** (2019). Using K-Means to Determine Learner Typologies for Project-based Learning: A Case Study of the University of Education, Winneba. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2019919320
6. **Esther Gyimah**, Delali Kwasi Dake, Mathias Agbeko (2018). The Role of Computer Games in the Learning of Programming among Tertiary Students in Ghana. *African Journal Of Applied Research*.
7. Delali Kwasi Dake, **E Gyimah** (2017). Students grades predictor using Naïve Bayes classifiers-A case study of university of education. *International Journal of Innovative Research in Science, Engineering and Technology*. https://scholar.google.com/scholar?cluster=18382163490981474008&hl=en&oi=scholarr
8. G.O. Ofori-Dwumfuo, **Esther Gyimah** (2013). Business Intelligence as an ICT Tool for Financial Crime Detection in Ghana. *Research Journal of Information Technology*. https://doi.org/10.19026/rjit.5.5789

Conference papers 3

1. Delali Kwasi Dake, **Esther Gyimah**, Godwin Kudjo Bada (2025). A Deep Learning Model to Predict Information Technology Students Learning Style in Adaptive Learning Systems. https://doi.org/10.1109/icsadl65848.2025.10933094
2. **Esther Gyimah** (2019). Online Learning Engagement and Satisfaction of First Year Undergraduate Students in a Blended Course. https://doi.org/10.1109/icmrsisiit46373.2020.9405837
3. **Esther Gyimah**, Delali Kwasi Dake (2019). Using Decision Tree Classification Algorithm to Predict Learner Typologies for Project-Based Learning. https://doi.org/10.1109/iccma.2019.00029