

Curriculum Vitae - Chris Gilbert

Chair, Department of Computer Science & Engineering

William V. S. Tubman University, Harper, Liberia

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Professional Summary

Dynamic academic leader with extensive experience in computer science research and higher education. Specializes in cybersecurity, cryptography, algorithm design & analysis, blockchain technologies, and cyber-physical systems. Proven track record of publications and supervising work in emerging areas such as homomorphic encryption, privacy-preserving algorithms, and AI-driven threat detection. Skilled in curriculum development, departmental leadership, and fostering research collaborations.

Education

PhD, Computer Science (Computer Security) – Universidad Empresarial de Costa Rica, 2016

MPhil, Computer Science – Kwame Nkrumah University of Science & Technology, Ghana, 2013

MSc, Information Technology – Open University of Malaysia, Accra Institute of Technology Campus, Accra, Ghana, 2011

BSc, Mathematical Sciences (Computer Science Option) – University for Development Studies, Ghana, 2007

Appointments & Leadership Roles

Chair, Department of Computer Science & Engineering

William V. S. Tubman University, Harper, Liberia

Dates: 2017 – Present

- Lead academic and administrative functions of the department.
- Oversee curriculum design and ensure alignment with international standards and emerging technologies.
- Supervise research in algorithmic security, cryptographic systems, AI for threat detection.

- Foster partnerships and collaborations for research, teaching, and technological advancement.

Lecturer & Head of Department
Christian Service University, Kumasi, Ghana
2016 – 2017

- Developed departmental strategic plan aligned with institutional goals.
- Facilitated curriculum review, accreditation, and postgraduate program development.
- Supervised faculty and ensured academic quality.

Research Interests

Cybersecurity & Threat Detection
Cryptography & Secure Data Computation
Blockchain & Distributed Ledger Technologies
AI / Machine Learning Applications in Security
Privacy & Data Protection
Cyber-Physical Systems & Internet of Things Security

Selected Recent Publications (2024 – 2025)

- Unraveling Blockchain Technology: A Comprehensive Review (2024) – Blockchain fundamentals, transparency, trust, and applications.
- Securing Supply Chain Networks (2025) – Security challenges in modern supply chains.
- Exploring Secure Hashing Algorithms for Data Integrity Verification (2025) – Evaluation of SHA-family algorithms.
- Detection and Response Strategies for Advanced Persistent Threats (2025) – Threat modeling and mitigation.
- Homomorphic Encryption Algorithms for Secure Data Computation (2025) – Secure computation in cloud environments.
- Continuous User Authentication on Mobile Devices (2025) – Adaptive, non-intrusive security mechanisms.

Full list of 44 publications available on ResearchGate:
<https://www.researchgate.net/profile/Chris-Gilbert-8>

Skills & Expertise

- Algorithm design & analysis
- Cryptographic protocols
- Cybersecurity frameworks & risk management

- Machine learning / AI in security
- Blockchain systems & consensus mechanisms
- Regulation & compliance (GDPR, international norms)
- Research mentorship & academic leadership
- Teaching & curriculum development

Service & Professional Engagement

- Reviewer for peer-reviewed journals in cybersecurity, cryptography, and data privacy.
- Supervising graduate and undergraduate research.
- Participation in international conferences and workshops.

References

- i. Professor Dr. Samuel Olabisi
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