

CURRICULUM VITAE

Prof. Attlee Munyaradzi GAMUNDANI (SMIEEE)¹

Associate Professor: Cybersecurity & Research Cluster Lead
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1. PROFILE SUMMARY

A Senior Member of the IEEE and Associate Professor of Cybersecurity, currently leading the AIoT and ICT4D research clusters at the Namibia University of Science and Technology (NUST). I possess a distinguished track record in **strategic academic leadership**, having successfully graduated multiple PhD candidates and secured significant international research funding (e.g., SGCI-2, Lacuna Fund). With global governance experience as a Jury Member for the International Cybersecurity Challenge (Japan, USA, Europe) and a former Fellow at UNU Macau, I actively bridge the gap between African innovation and global standards. I am dedicated to **architecting resilient digital ecosystems** and advancing **sovereign cybersecurity frameworks**, strategically positioning the **institution and the national research ecosystem** for sustainable growth and international recognition.

2. VISION & MISSION

Vision Statement

To pioneer a secure and inclusive digital future for Africa by **advancing** rigorous cybersecurity research and technology-enabled innovation. I envision a landscape where ethical AI and IoT technologies are engineered to dismantle societal inequalities, driving sustainable human development through **robust, secure infrastructure**.

Mission Statement

To push the frontiers of Cybersecurity and ICT4D through **high-impact** research, strategic partnerships, and the cultivation of elite technical talent. My mission is to translate complex technical capabilities into **policy-driven, scalable solutions** that secure critical sectors—agriculture, health, and infrastructure—within the African context.

¹ SMIEEE - Senior Member IEEE

3. GLOBAL PROFESSIONAL STANDING & GOVERNANCE

Strategic Advisory Boards & International Governance

- **International Jury Member | International Cybersecurity Challenge (ICC):**
 - **Tokyo, Japan (2025):** Selected as a Jury Member for the 4th ICC.
 - **South America (2024):** Jury Member for the 3rd ICC (Virtual).
 - **San Diego, USA (2023):** Jury Member for the 2nd ICC.
 - **Athens, Greece (2022):** Jury Member for the inaugural ICC, organised by ENISA.
- **Advisory Board Member | Genuinelyn (Jan 2025 - Present):** Serving on the board of a global collaboration platform that connects innovation ecosystems across **20+ countries**, fostering over 1,000 strategic partnerships in AI and Cybersecurity.
- **Advisory Board Member | Pan African AI Ethics Consortium:** Contributing to the development of continental frameworks for ethical AI deployment and governance.
- **Advisory Board Member | Pan African ICT Association (PAICTA) (2020 - Present):** Serving on the 4IR Advisory Board, guiding policy and operations for digital transformation across the continent.
- **Country Representative | Responsible AI Network-Africa (RAIN-Africa) (2020 - Present):** Leading the Namibian chapter to advocate for the ethical governance and standardisation of AI technologies.
- **Organising Committee Lead | 4IR Expo (2022):** Led the committee working with the Presidential 4IR Taskforce appointed by His Excellency Dr Hage Geingob.

Professional Fellowships & National & International Service

- **Senior Member (SMIEEE):** Institute of Electrical and Electronics Engineers.
- **ICTD Research Fellow:** United Nations University (UNU), Macau (2020 - 2021).
- **Steering Committee Member:** Namibia National CERT Establishment (Ministry of ICT).
- **Steering Committee Member:** International Cybersecurity Competition (2021 - Present).

Global Research Visibility & Digital Authority

- **Indexed Scientist:** Profiled in the **African Scientists Directory**, **ACM Digital Library**, **Frontiers Loop**, and **DBLP**, reflecting broad visibility in high-impact fields such as AI Ethics and IoT Security.
- **Digital Thought Leader:** Recognised on the **GenuineIn Platform** for collaborative innovation impact and maintaining a robust scholarly footprint on **Google Scholar** and **LinkedIn** with influential dissemination of research on **Internet of Things Security** and the **Gender Digital Divide**.

4. ACADEMIC QUALIFICATIONS

- **Doctor of Philosophy in Computer Science (2019)**
Namibia University of Science and Technology (NUST)
- **Postgraduate Certificate in Higher Education (2017)**
Namibia University of Science and Technology (NUST)
- **Master of Science in Computer Science (2011)**
University of Zimbabwe
- **Bachelor of Science Information Systems Honours Degree (2006)**
Midlands State University, Zimbabwe

5. RESEARCH LEADERSHIP & RESOURCE MOBILISATION

Principal Investigator & Grant Leadership

- **SGCI-2 ACTS (IDRC) Research Grant (N\$1,104,405) | 2024-2025:**
 - *Project:* Reimagining Urban Water Security - Exploring Innovative Water Solutions.
 - *Focus:* Exploring innovative, technology-enabled water solutions through community co-creation.
- **Lacuna Fund (US\$54,833) | 2022:**
 - *Project:* AI for Agriculture.
 - *Focus:* Using Artificial Intelligence to detect plant leaf diseases in Pearl Millet and Maize. Resulted in the publication of the first Namibia Maize Disease Dataset on Harvard Dataverse.

- **UNICEF Namibia (US\$30,000) | 2015-2016:**
 - *Project:* Child Online Protection.
 - *Focus:* Exploratory research on the online behaviours and risks faced by adolescents, informing national protection guidelines.
- **Smart Parking Project (N\$200,000):**
 - *Focus:* Designing an open street smart parking payment system using IoT sensors.
- **HASH Project (US\$15,000) | 2022-2023:**
 - *Project:* AI in Healthcare.
 - *Focus:* Machine Learning for identifying teenage patients at risk of gestational hypertension.
- **Making Windhoek Safer (N\$56,000):**
 - *Focus:* Developing AI-driven solutions for citizen safety and panic reporting systems.
- **Senate Research Committee Grant (US\$9,500) | 2012-2016:**
 - *Project:* Green Computing for Rural Education.
 - *Focus:* Advancing green computing (solar-powered computers) to improve rural Grade 7 examination output.

6. STRATEGIC ACADEMIC APPOINTMENTS

Associate Professor: Cybersecurity

Namibia University of Science and Technology (NUST) | 2023 - Present

- **Strategic Research Leadership:** Spearheading the AIoT and ICT4D research clusters, driving interdisciplinary research outputs that align with national development goals.
- **Academic Governance:** Serving on the Curriculum Committee to review and modernise the cybersecurity curriculum (2019-2023) and the Strategic Planning Committee for the institution's five-year roadmap (PSP-5).
- **Advanced Supervision:** Mentoring junior staff and supervising a robust cohort of Honours, Master's, and PhD candidates.
- **Resource Administration:** Grant application, administration, and implementation for high-value international projects.

Remote Visiting Faculty

Arrupe Jesuit University, Zimbabwe | 2025

- Facilitating the co-creation of learning and evaluation frameworks for Cryptography, Security, and Mobile Forensic Investigation courses.

Senior Lecturer: Cybersecurity

Namibia University of Science and Technology (NUST) | 2019 - 2023

- **National Impact:** Chaired the Namibia National Cyber Security Competition (NNCSC) (2019-2024), fostering national talent pipelines.
- **Institutional Change:** Served as Faculty Change Agent for Teaching and Learning (2016-2019), driving pedagogical innovation.

ICTD Research Fellow

United Nations University, Macau, China | 2020 - 2021

- **Global Innovation:** Co-founded the *Sustainable Decision-Making Tech* project, aligning AI research with the UN Secretary General's roadmap for Digital Cooperation.
- **Research Ethics:** Served as Compliance Officer for the Joint UNU Ethical Review Board, overseeing research ethics across multiple disciplines.

Lecturer: Computer Science

Namibia University of Science and Technology | 2014 - 2019

- **Policy Influence:** Founding member of the National CERT Committee (2015-2019), reporting directly to the Ministry of ICT to benchmark Namibia's national cybersecurity strategy.

Lecturer: Information Technology

Chinhoyi University of Technology, Zimbabwe | 2012 - 2013

- **Academic Administration:** Served as the **Department Industrial Liaison Officer** and Faculty Representative for Quality Assurance, bridging the gap between academic output and industry standards.
- **Curriculum Governance:** Acted as Internal Course Examiner for core technical modules, including Distributed Systems and C Programming.

Part-Time Lecturer: Information Systems

Trust Academy, Zimbabwe | 2012 - 2013

- Facilitated learning and assessment for undergraduate modules, focusing on research supervision and maintaining examination standards.

Prior Corporate Experience

- **Chief Information Officer:** Total Motor Mart Co. Ltd, Zimbabwe (2008-2010).
- **Graduate Trainee:** Fidelity Life Assurance of Zimbabwe Ltd (2007-2008).

7. PERSONAL RESEARCH STATEMENT

My research philosophy is anchored in the **engineering of secure, scalable technologies** that solve complex societal challenges. I explore the convergence of Artificial Intelligence, IoT, and Cybersecurity not merely as technical tools, but as critical infrastructure for sustainable development. Guided by the UN Sustainable Development Goals (SDGs), my work prioritises **Human-Centric Security**, ensuring that digital innovations address systemic disparities in agriculture, healthcare, and energy. By embedding **Privacy by Design** and cultural contextualisation into the development process, I aim to produce solutions that are technologically robust, resilient to threats, and socially transformative.

8. RESEARCH OUTPUT

Research Productivity Summary

The following table highlights the total volume of scholarly contributions, reflecting a consistent trajectory of knowledge production in Cybersecurity, AIoT, and ICT4D.

Publication Category	Count
Books & Monographs	8
Peer-Reviewed Journal Articles	25
Conference Proceedings	55
Keynote Addresses & Invited Talks	10
Technical Reports & Policy Briefs	5

Books & Monographs

1. Lazem, S., Anya, O., Saleh, M., Nkwo, M.S., **Gamundani, A.M.**, Ogunyemi, A.A., & Isafiade, O.E. (Eds.). (2025). *AfriCHI '25: Proceedings of the 5th Biennial African Human Computer Interaction Conference*. Association for Computing Machinery (ACM). ISBN: 979-8-4007-1849-6.
2. **Gamundani, A.M.** (2025). *Cybersecurity Research Methodology: A Handbook for Scholars and Practitioners*. ISBN: 9781300111153.
3. **Gamundani, A.M.** (2025). *Cybersecurity for Everyone: How to Stay Safe Online*. [Apple Books](#) .
4. Jere, N.R., Mwansa, G., Ranga, M., **Gamundani, A.M.**, & Maoneke, P.B. (Eds.). (2025). *Digital Inequality in a Developing Context: A Multifaceted Approach*. AOSIS.

5. Jere, N.R. & Gamundani, A.M. (2015). *Solid Foundations Information and Communication Teachers Guide - Grade 7*. Namibia Publishing House. ISBN: 978991629261.
6. Jere, N.R. & Gamundani, A.M. (2015). *Solid Foundations Information and Communication Teachers Guide - Grade 6*. Namibia Publishing House. ISBN: 978991629254.
7. Gamundani, A.M. & Jere, N.R. (2015). *Solid Foundations Information and Communication Teachers' Guide - Grade 5*. Namibia Publishing House. ISBN: 978991629247.
8. Gamundani, A.M. & Jere, N.R. (2015). *Solid Foundations Information and Communication Teachers Guide - Grade 4*. Namibia Publishing House. ISBN: 978991629230.

Selected International Journal Publications

- Shipena, E.F.N., & Gamundani, A.M. (2024). "A Review of Internet of Things (IoT) Smart Office Data Security Threats." *Digital Technology and Changing Roles in Managerial and Financial Accounting*, 375-381.
- Kanyama, M.N., Shava, F.B., Gamundani, A.M., & Hartmann, A. (2024). "Machine learning applications for anomaly detection in Smart Water Metering Networks: A systematic review." *Physics and Chemistry of the Earth, Parts A/B/C*, 103558.
- Kanyama, M.N., Shava, F.B., Gamundani, A.M., & Hartmann, A. (2024). "Anomalies identification in Smart Water Metering Networks: Fostering improved water efficiency." *Physics and Chemistry of the Earth, Parts A/B/C*, 134, 103592.
- Morolong, M. P., Shava, F. B., & Gamundani, A. M. (2023). "Cloud computing security in health cyber physical systems."
- Pawluczuk, A., Lee, J., & Gamundani, A.M. (2021). "Bridging the gender digital divide: an analysis of existing guidance for gender digital inclusion programmes' evaluations." *Digital Policy, Regulation and Governance*.
- Makuvaza, A., Singh, D., & Gamundani, A.M. (2021). "Deep Neural Network (DNN) Solution for Real-time Detection of Distributed Denial of Service (DDoS) Attacks in Software Defined Networks (SDNs)." *SN Computer Science*, 1-10.
- Gamundani, A.M., Bhunu-Shava, F., Bere, M., & Kandjimi, H. (2015). "A preliminary survey on child online protection initiatives: A focus on Namibia." *International Research Journal of Computer Science (IRJCS)*, 2(4), 17-22.
- Bere, M., Bhunu-Shava, F., Gamundani, A.M., & Nhamu, I. (2015). "How Advanced Persistent Threats Exploit Humans." *International Journal of Computer Science Issues (IJCSI)*, 12(6), 170-174.

- **Gamundani, A.M.** (2014). "An algorithmic Framework security model for Internet of Things." *International Journal of Computer Trends and Technology (IJCTT)*, 12(1), 16-20.

Selected Conference Proceedings

- **Nantinda, T., Gamundani, A.M., & Kanyama, M.N.** (2024). "Machine-Learning Application for Detection and Prediction of Stroke Risk and Post-Stroke Outcomes." *2024 icABCD*, IEEE.
- **Ndjene, J., Gamundani, A.M., & Kanyama, M.N.** (2024). "Leveraging Machine Learning to Detect and Predict Diabetes in Polycystic Ovary Syndrome Patients." *2024 icABCD*, IEEE.
- **Silaa, J., Muyingi, H., Gamundani, A., & Masake, P.** (2024). "Towards a Unified eDiscovery Forensics Architecture (UEFA)." *2024 IST-Africa Conference*, IEEE .
- **Gamundani, A.M.** (2023). "Unmasking the Potential of Usable Security and Privacy Technologies in Empowering African Digital Landscapes." *Proceedings of the 4th African Human Computer Interaction Conference*, 201-207.
- **Gamundani, A.M., Phillips, A., & Muyingi, H.N.** (2023). "A Scalable and Lightweight Authentication Architecture for the Internet of Things (IoT) in Smart Home Applications." *2023 2nd ZCICT*, IEEE.
- **Mdwaba, S. M., Gamundani, A., et al.** (2023). "Decolonising the Computing Curriculum: Aligning Stakeholders for an African-Centric Education." *4th African Human Computer Interaction Conference*.
- **Kavikairiua, J., Morolong, M., Gamundani, A., et al.** (2023). "Designing an AI solution for Child Online Safety in Africa." *4th African Human Computer Interaction Conference*.
- **Gamundani, A.M., Phillips, A., & Muyingi, H.N.** (2018). "A Review and Costing of Lightweight Authentication Schemes for Internet of Things (IoT)." *Security and Privacy in Communication Networks (SecureComm 2018)*, Springer.
- **Gamundani, A.M.** (2015). "An impact review on Internet of Things attacks." *International Conference on Emerging Trends in Networks and Computer Communications (ETNCC)*.

Keynote & Invited Addresses

- **Speaker:** "Innovation in Cybersecurity for Smart Infrastructure." *Africa Smart Infrastructure Conference*, 2024.
- **Keynote:** "The Intersection of AI and Industry: Opportunities and Challenges." *Indaba X Zimbabwe*, July 2023.
- **Address:** "D1 Cyber." *International Cybersecurity Championship & Conference*, San Diego, USA, 2023.

- **Address:** "Approaches to promote responsible AI in Africa." *RAIN-Africa Conference*, Ghana, 2023.
- **Keynote:** "Internet of Things (IoT): A focus on Digital Privacy towards Personal Information Security." *3rd National ICT Summit*, Namibia, 2016.
- **Keynote:** "Bridging the digital divide: Rural Mobile Penetration and the concern for Cyber Security." *2nd National ICT Summit*, Namibia, 2015.

9. TEACHING & LEARNING PHILOSOPHY

My teaching philosophy centres on **competency-based education**, transforming the classroom into a dynamic interface between academic theory and the evolving landscape of Cybersecurity and AI. I view education as a professional partnership where students are trained to be active problem-solvers. Recognising the volatility of the digital domain, I prioritise a curriculum that balances technical rigour with ethical responsibility. By integrating industry partners and hands-on forensic simulations, I bridge the gap between abstract concepts and professional practice. My goal is to cultivate critical thinkers who possess the **forensic agility** to navigate future technological shifts and the ethical grounding to lead with integrity..

10. ADVANCED RESEARCH SUPERVISION & HUMAN CAPITAL

Doctoral Completions (Promoter/Supervisor/Co-Supervisor)

1. **Dr Timothy Dongo (2025 @ NUST):** *The Development of a Natural Language Processing (NLP) System for Paedophile Profiling Use in Child Online Protection.*
2. **Dr Kanyama Maria Nelago (2025 @ NUST):** *Developing a lightweight blockchain ensemble machine learning anomaly detection model for smart water metering networks.*
3. **Dr Mamoqenelo P. Morolong (2026 @ NUST):** *Developing a Hybrid Machine Learning Security Model for resilient national critical infrastructure against Advanced Persistent Threats.*

Current Doctoral Supervision

1. **Julius Silaa (NUST):** *WLAN Intrusion Detection System for DDoS Attacks using Deep Learning.*
2. **Stanford Musarurwa (NUST):** *Authorisation model for public cloud storage services.*
3. **Edward Nepolo (Stellenbosch University):** *Unsupervised Machine Learning to Identify Undocumented Security Threats in IoT Networks.*

Graduated Master's Students (Main Supervisor)

1. **Victoria N. Ambambi (2025):** Development of an Isolation Forest-Based Anomaly-Detection Model for Green Hydrogen Storage Optimisation
2. **Julia Ndjene (2025):** Machine Learning-Based Detection and Prediction of Diabetes in PCOS Patients.
3. **Teopolina Nantinda (2025):** Developing a Machine Learning Model for Predicting the Risk of Stroke and Post-Stroke Outcomes.
4. **linah-Maria Shiweva (2024):** CNN Model for Detecting Forged Academic Qualifications.
5. **Elizabeth Shipena (2024):** Security Threats Identification Model for IoT Smart Office Devices.
6. **Sepiso Chikuruwo (2023):** Preserving Volatile Digital Evidence for Admissibility in Namibian Courts.
7. **Henok Immanuel (2023):** Agent-based model to predict the impact of number portability.
8. **Ester N. Nandjembo (2022):** Cafeteria Management System.
9. **Michael N. Amushembe (2020):** Relationship between language of instruction and Programming Skills.
10. **Festus T. Hamukwaya (2024):** E-Referral Model for Hospitals in Namibia.

Current Master's Supervision (Main Supervisor)

- Supervising 10 active candidates covering topics including Healthcare Data Security, Email Forensic Readiness, Green Hydrogen Systems using IoT/AI, and Fact-Checking Games for Disinformation.

Graduated Honours Students

- Supervised over 38 Honours research projects (2013-2024) across institutions (NUST, MSU, CUT) covering diverse topics from Cloud Computing and Smart Farming to Digital Forensics and Cyberbullying.

11.COMMUNITY SERVICE STATEMENT

My philosophy of community service is centred on the **strategic application** of technology to solve critical societal goals, including Vision 2030 and the Sustainable Development Goals. I view academia not just as a place of learning, but as a vital enabler of **digital sovereignty** and resilience. By mobilising diverse teams and fostering strategic partnerships, I strive to bridge the digital skills gap in AI, IoT, and Cybersecurity. My goal is to move beyond temporary assistance to build **sustainable, locally-owned ecosystems** where underserved communities are empowered to maintain their digital future.

12.COMMUNITY ENGAGEMENT, MEDIA PRESENCE & PUBLIC ADVOCACY

Strategic Hackathons & Innovation Challenges

- **Deep Learning Indaba X Hackathon:** Lead Facilitator for regional machine learning challenge.
- **NAMDEB AR/VR Hackathon (July 2022):** Facilitator driving augmented and virtual reality innovation for the mining sector.
- **IoT Innovation Challenge (2022):** Judge and Facilitator for solutions focusing on Water, Agriculture, and Energy.
- **Smart City Hunt Project (Nov 2022):** Coordinated the implementation of SDGs and IoT sensor solutions for urban environments.
- **Cross-Border Digital Innovation & Entrepreneurship Hackathon (May 2021):** Facilitated a multi-national hackathon (Ethiopia, Namibia, South Africa, Zimbabwe) focusing on Precision Agriculture and Smart Health.
- **Virtual Eastern Cape Youth Digital Agrisec Hackathon (Sept 2021):** Facilitated digital agricultural security solutions for youth.
- **TN Innovation Week (Oct 2022):** Served as a Judge for national innovation pitches.

Global & Regional Capacity Building Workshops

- **ITU Spectrum Aspects in Vertical Industries (Oct 2024):** Conducted expert training on IoT spectrum policy in São Tomé & Príncipe.
- **Global Intercultural Project Experience (GIPE) (Germany, 2022-2023):** Stream Coordinator and Facilitator for trans-continental student projects (UNDP/Peru/Indonesia).
- **ITU GSR Asia-Pacific (June 2021):** Facilitator for the closed-session academic and sector member dialogue.
- **ITU E-Application Development Workshop (Ethiopia, 2019):** Expert Facilitator for regional app development strategies in Addis Ababa.
- **International Centre for Theoretical Physics (Italy, 2021):** Guest Speaker at the International Workshop on emerging tech.
- **UNESCO Namibia AI Session (March 2023):** Facilitated a strategic AI overview for the national UNESCO team.

National Policy & Specialised Training

- **Cybersecurity Workshop for Parliamentarians (2018):** Organised and executed high-level training for Namibian Parliamentarians under the "Cybersecurity for Everyone" initiative.
- **Digital Security for Journalists (May 2021):** Facilitated cybersecurity training for media professionals during World Press Freedom Day.
- **Women in Sciences (WiSci) Workshops (2018 & 2019):** Led Cybersecurity and Digital Forensics streams to bridge the gender gap in STEM.
- **AI Expert Consultation (Sept 2020):** Facilitated workshops for the Sustainable Decision-Making Tech Project supporting the UN Secretary General's digital roadmap.
- **NAMPOL Cybersecurity Training (2017):** Planned and hosted awareness workshops for the Namibian Police Force.
- **FinTech Digital Security Forum (Oct 2022):** Invited speaker on financial sector resilience.

Academic Research Seminars

- **Universität Leipzig (Feb 2022):** Facilitated seminar on publishable research writing for postgraduate students.
- **University of Namibia (Aug 2022):** Conducted a seminar on Mixed Methods techniques for master's and PhD students.
- **Botho University, Lesotho (Aug 2022):** Facilitated seminar on Design Science Research Methodology.
- **University of Fort Hare (Oct 2022):** Hosted the International Cybersecurity Webinar.

Public Media & Science Communication

- **Cyber Defense Analyst:** Featured in media interviews and YouTube strategic discussions on Global Cyber Defense Strategies, demystifying AI threats for the general public.
- **Industry Thought Leadership:** actively disseminates scholarly insights on **Bring Your Own Device (BYOD) security** and **Gender Digital Divides** to a network of thousands on LinkedIn and professional platforms.

13. AWARDS & HONOURS

- **Research Excellence Award (2024):** Faculty of Computing and Informatics, Established Researcher of the Year.
- **Team of the Year Award (TOYA) (2018):** Digital Forensics and Information Security Research Cluster.
- **Excellent Teaching Award (2016):** Mid-Career (Category B) Faculty Level.
- **Research Excellence Award (2016):** Best Emerging Researcher of the Year.
- **Best PhD Presentation (2015):** School of Computing and Informatics Research Day.
- **Best Blended E-learning Course (2015):** Polytechnic of Namibia Technology Day.

14. PROFESSIONAL CERTIFICATES & BADGES

1. CCSA - Checkpoint Certified Security Administrator (2021-2023).
2. Computer Forensics Best Practices (2021) - EC Council.
3. Leadership in Higher Education Programme (LHEP) (NUST, 2016).
4. Leadership and Innovation (Highline College, Seattle, WA, USA, 2016).
5. ISO 9001: 2000 Internal Quality Auditor (2008).
6. **IBM Data Science Badges:** Machine Learning with Python, Data Visualisation with Python, Python for Data Science and AI, Databases and SQL for Data Science.
7. **United Nations Training:** BSAFE, Preventing Fraud and Corruption, Ethics and Integrity, and I Know Gender.

15. CONFERENCE, EDITORIAL & REVIEWER ROLES

Conference Leadership

- **Chair:** International Conference on Emerging Trends in Networks and Computer Communications (ETNCC), 2023.
- **Chair:** Cybersecurity4D Conference Series (2024 -2025).
- **Registration Chair:** 4th African Human Computer Interaction Conference (2023).
- **Session Chair:** IST-Africa (2017), DSMLAI (2021), iThings (2018) .

Editorial & Reviewer Duties

- **Reviewer:** IEEE Internet of Things Journal.
- **Reviewer:** Journal of Network and Computer Applications (Elsevier).
- **Reviewer:** International Journal of Information and Computer Security (Inderscience).
- **Expert Reviewer:** IEEE Transactions on Industrial Informatics; Scientific African (Elsevier).

External Examination: Doctoral Theses (PhD)

- **University of South Africa (UNISA):** PhD Thesis External Examiner (2025).
- **Ghana Communication Technology University:** PhD Thesis External Examiner (2025).
- **University of KwaZulu-Natal (UKZN), South Africa:** PhD Thesis External Examiner (2022).
- **International University of Management (IUM), Namibia:** PhD Thesis Examiner (2021-2024).

External Examination: Master's Theses & Course Moderation

- **University of Cape Town:** Master's Thesis External Examiner (2025)
- **University of Johannesburg, South Africa:** Master's Thesis External Examiner (2024-2025).
- **University of Fort Hare, South Africa:** Master's Thesis External Examiner (2024-2025).
- **International University of Management (IUM), Namibia:** Master's Thesis Examiner (2021-2024).
- **Nelson Mandela University (NMU), South Africa:** External Examination Moderator (2022-2024).
- **Ashesi University, Ghana:** Course Examiner for Data Structures and Algorithms (2022).
- **Midlands State University (MSU), Zimbabwe:** External Examiner (2012-2013).

16. TECHNICAL AUTHORITY & CORE COMPETENCIES

Strategic Leadership & Institutional Governance

- **Academic Strategy:** Expert in aligning faculty research outputs with National Development Plans (NDP5) and UN Sustainable Development Goals (SDGs).
- **Grant Stewardship:** Proven capability in the full lifecycle management of international funding (IDRC, Lacuna Fund), from proposal co-creation to financial compliance and impact reporting.
- **Policy Formulation:** Experience in drafting and benchmarking national cybersecurity frameworks (CERT) and advising high-level government task forces (4IR).

Cybersecurity & AIoT Technical Expertise

- **Forensic Readiness:** Advanced proficiency in designing Digital Forensic Incident Response (DFIR) roadmaps for critical infrastructure and national defence sectors.
- **AI & IoT Convergence:** Specialist in "AIoT" security architectures, specifically for resource-constrained environments (Smart Water, Smart Agriculture).
- **Ethical AI Governance:** Deep knowledge of algorithmic auditing and bias mitigation, applying frameworks from RAIN-Africa and IEEE standards.

Pedagogical Innovation & Capacity Building

- **Curriculum Architect:** Demonstrated ability to design and accredit standalone PhD and Master's programmes that meet international 4IR standards.
- **Co-Creation Methodologies:** Pioneer of industry-integrated learning models (hackathons, competitions) that bridge the gap between theoretical computer science and practical cyber defence.

17. STRATEGIC ACADEMIC REFERENCES

Institutional & Academic Leadership

Prof Fungai Bhunu Shava

Acting Executive Dean: Faculty of Computing and Informatics

Namibia University of Science and Technology (NUST)

Relationship: Faculty Dean & Strategic Research Collaborator

Email: fbshava@nust.na | **Tel:** +264 61 207 2510

Prof Benny Nyambo

Vice-Chancellor / Rector

The Catholic University of Zimbabwe

Relationship: Strategic Partner in Regional Education Development

Email: benny.nyambo@gmail.com | **Tel:** +263 777 970 607

International Research & Global Policy

Prof Serge Stinckwich

Head of Research

United Nations University (UNU) Institute in Macau

Relationship: UNU Fellowship Mentor & SDG Research Partner

Email: stinckwich@unu.edu | **Tel:** +81 3 5467 1212

Prof Amelia Phillips

Full Professor & PhD Co-Supervisor

University of the Cumberland, Seattle, USA

Relationship: International Research Mentor & Cybersecurity Co-Author

Email: amelia.phillips@ucumberlands.edu | **Tel:** +1 (206) 579-3674

Regional Innovation & Curriculum Partners

Dr Ayorkor Korsah

Head of Department: Computer Science & Information Systems

Ashesi University, Ghana

Relationship: Pan-African Curriculum Development Partner

Email: akorsah@ashesi.edu.gh