CURRICULUM VITAE

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Google Scholar Profile Page URL: https://scholar.google.com/citations?user=_XLQ7mgAAAAJ&hl=en&oi=ao

Specialties: Quantum Computing and Cybersecurity

PERSONAL DATA

Name	Peter Nimbe
Place and Date of Birth	Accra, Ghana I 16th June 1986
Address	University of Energy and Natural Resources P. O. Box 214, Sunyani, B/A
Phone	+233200502289, +233553435175
Email(s)	peter.nimbe@uenr.edu.gh, ptwnimbe@gmail.com

EDUCATION

2017-2022	PhD, Computer Science I University of Energy and Natural Resources
2012-2014	MPhil, Computer Science I Kwame Nkrumah Univ. of Science & Technology
2005-2009	BSc, Computer Science I Catholic University College of Ghana
2001-2004	WASSCE, Science I St. Peter's Secondary School
1992-2001	BECE I St. Peter's Mission School

EXPERIENCE

Feb. 2024-Current	Senior Lecturer I University of Energy and Natural Resources Teaching courses like Advanced Database System, GIS and Remote Sensing, PC Hardware & Maintenance, Cryptography and Network Security, Information Systems, etc. Teaching in the postgraduate programme: Theory of Computation
Feb. 2020-Jan. 2024	Lecturer I University of Energy and Natural Resources Teaching courses like Information Security, Information Theory and Applications, Parallel and Distributed Databases, PC Hardware and Maintenance, Network Security and Cryptography, Applied Speech Technology, Principles of Programming, Computer Application Packages, Computer Literacy etc. Teaching in the top-up programme: Network Security and Cryptography, Information Theory and Applications, Information Security, etc.

Apr. 2015-Current

Cryptographer | Self-Employed

Developing classical and quantum cryptographic algorithms and protocols

Feb. 2018-Jan. 2020

Assistant Lecturer | University of Energy and Natural Resources

Teaching courses like Information Security, Information Theory and Applications, Distributed Systems, PC Hardware and Maintenance, Cryptography and Network Security, Data Structures and Algorithm, Visual Basic.Net, Applied Speech Technology, Principles of Programming, Computer Literacy, Computer Organization and Architecture, C++ Programming etc.

Teaching in the top-up programme: Operating System and Mobile Computing

Sep. 2017-Dec. 2017

Part-Time Lecturer | University of Energy and Natural Resources

Teaching courses like Cryptography and Network Security, Speech Technology and Web Page Design

Sep. 2016-Jan. 2018

Assistant Lecturer | Catholic University College of Ghana

Teaching courses likes Data Mining, Algorithm and Data Structures, Introduction to Compilers, Computer Graphics, C++ Programming, Visual Basic.Net, C# Programming, Java etc. for both regular and weekend school

Sep. 2010-Aug. 2016

Senior Research Assistant | Catholic University College of Ghana

Teaching courses likes C++ Programming, Databases, Artificial Intelligence Visual Basic.Net, Distributed Systems, Data Structures and Algorithm, Computer Organization and Architecture, Computer Fundamentals and Internet, Information Technology etc.

Jan. 2011-Aug. 2014

Software Developer and IT Instructor | MAPRI-TECH Limited, Sunyani

Training students in Microsoft Office Applications, Programming and Software Development etc.

Oct. 2013-Nov. 2013

IT Facilitator | RLG Communication, Sunyani

Training students in Microsoft Office Applications and Information Technology

Dec. 2012

IT Administrator | Kofi Annan Peace Keeping Center

In Collaboration with UNDP, WANEP and CUCG For Joint Party Election Results Monitoring (J-PERM) Project for Ghana's Election 2012

Setting up a LAN to run a system developed for monitoring Ghana's Elections

Aug. 2009-Aug. 2010

Teaching Assistant (NSS) | Catholic University College of Ghana

Assisting lecturers and organizing tutorials

Jun. 2009

Member of Research Mission | Radboud Univ., Nijmegen, The Netherlands

Research Mission and Exchange Program at iCIS (Institute for Computing

and Information Sciences), Faculty of Science.

2004 - 2005 Teaching Staff Member I Royal Pentecostal Academy, Accra

Teaching subjects like Mathematics, Agricultural Science and General Science

COMMITTEES & POSITIONS HELD

Aug. 1, 2025 – Current Chairman of Departmental Books and Publication Committee I UENR

Apr. 14, 2024 – May 04 ,2025 Chairman of Departmental Committee to Develop MPhil Computer Science GTEC Document for Re-accreditation I UENR

Dec. 10, 2024 Member of Departmental Committee to Develop New Programme – MPhil. Data Science and Business Intelligence I UENR

Aug. 1, 2024 – current Member of Departmental Quality Assurance and Curriculum Development Committee I UENR

Aug. 1, 2024 – current Member of Departmental Sports Committee I UENR

Aug. 1, 2024 – current Member of Departmental Welfare Committee I UENR

Aug. 1, 2024 – current Member of Departmental Digital Transformation, Innovation and Professional Committee I UENR

Aug. 1, 2023 – current Member of Departmental Laboratory Management Committee I UENR

Aug. 1, 2024 – current Member of Departmental Webometric Committee I UENR

Aug. 1, 2023 – Aug. 1, 2024 Departmental Postgraduate Coordinator I UENR

Aug. 1, 2023 – Jul. 31, 2023 Member of Departmental Digital Transformation, Innovation and Professional Committee I UENR

Aug. 23 – Aug. 24, 2023 Judge – STHISD International Conference 2023 I UENR

Morning Session – Aug. 23: Big Data Analytics, Machine Learning, Internet-of-Things, Cybersecurity and Digital Forensic
Moderator: Prof. Kofi Bobi Barimah

Afternoon Session – Aug. 24: Big Data Analytics, Machine Learning, Internet-of-Things, Cybersecurity and Digital Forensic

Moderator: Prof. Nana Sarfo Agyeman Derkyi

Aug. 10 – Aug. 14, 2023 Reviewer - STHISD International Conference 2023 I UENR

Jun. 23 – Aug. 25, 2023 Coordinator for Internal Mobilization of All Schools – STHISD International Conference 2023 I UENR

Sep. 19 – Sep. 27, 2022 Chief Invigilator in the Second Semester Examinations 2021/2022 Academic Year I UENR

Aug. 22, 2022 – July, 2023 Chairman for School E-learning Committee I UENR

Aug. 22, 2022 – July, 2023 School Distance Education Committee Member I UENR

Aug. 01, 2022 – July 2023 Chairman for Departmental Distance Education/Weekend and E-learning I UENR

Aug. 01, 2022 – current	Departmental Undergraduate Projects Committee Member - Computer Science Programme I UENR
Aug. 01, 2022 – July, 2022	Departmental Quality Assurance and Curriculum Development Committee Member I UENR
Jan. 17 – Mar. 07, 2022	Quantum Computing Lecture Series Coordinator I UENR
Oct. 2021- July, 2022	School Quality Assurance Committee (Rep. Computer Sci. & Informatics) I UENR
Aug. 2021-July 2022	Departmental Quality Assurance Member I UENR
Aug. 2021-Sep. 2022	Departmental Examinations Officer I UENR
May. 2021-Current	Departmental App Challenge Member & Chairman I UENR
Jul. 2020-Sep. 2021	School E-Learning Committee Member I UENR
Nov. 2020-2021	Research & Seminar I UENR
Sep. 2018-2020	Computer Lab Coordinator I UENR
May. 2018- Jul. 2022	Academic Counsellor I UENR
Sep. 2018-2020	Diploma Computer Science Committee I UENR
Mar. 2018-2020	Departmental Audit Committee I UENR
Mar. 2018-2020	Proposal Development Committee (Comp. Sci. & Inform. Dept.) I UENR
Sep. 2016-Jan. 2018	Website Management Committee I CUCG
Sep. 2016-Jan. 2018	Examination Malpractice Committee I CUCG

ORGANIZATIONS

Dec. 2022- Dec. 2023	Association for Computing Machinery (ACM) - Professional Member
July. 2022- Current	OneQuantum - Community Member
Jun. 2022- Current	Oxford Quantum Information Society - Member
Jan. 2022- Current	Quantum Ghana (QGhana) – Board Member
Mar. 2022- Current	Institute for Engineering Research and Publication
Aug. 2021- Current	Institute of ICT Professionals Ghana (IIPGH)
Jul. 2021- Current	Stanford Quantum Computing Association - Member
Feb. 2021- Current	Python Ghana
Feb. 2021- Current	European Alliance for Innovation (EAI)
Dec. 2020- Current	International Computer Science and Engineering Society (ICSES)
Apr. 2020- Current	Institute of Research Engineers and Doctors (IRED) – Associate Member

2018-Current	Ghana Science Association (GSA)
Feb. 2018-Current	University Teachers Association of Ghana (UTAG)
Sep. 2014-Current	International Association of Engineers (IAENG)
May 2015-Current	International Association of Computer Science and I.T (IACSIT)
Jun. 2015- Jun. 2018	Institute of Research Engineers and Doctors (IRED) – Student Member

IEEE TECHNICAL COMMITTEES, COUNCILS, COMMUNITIES

Sep. 2021- Current	IEEE Nanotechnology Council
Sep. 2021- Current	IEEE Sensors Council
Jul. 2021- Current	Intelligent Informatics, IEEE Computer Society Technical Committee
Jul. 2021- Current	Data Engineering, IEEE Computer Society Technical Committee
Jul. 2021- Current	Cloud Computing, IEEE Computer Society Technical Committee
Jul 2021- Current	Software Engineering, IEEE Computer Society Technical Council
Jul. 2021- Current	Security and Privacy, IEEE Computer Society Technical Committee
May. 2021- Current	IEEE Collabratec
May 2021- Current	IEEE Quantum Technical Community

LICENSES & CERTIFICATIONS

Jun. 05, 2025	Diploma in Blockchain Technology and Application | Alison
Jun. 05, 2025	Financial Technology (Fintech) for Businesses | Alison
May. 30, 2025	Blockchain A-Z: Build a Blockchain, a Crypto + ChatGPT Prize | Udemy
Jan. 29, 2025	Blockchain Developer Training | Simplilearn
Jan. 29, 2025	Introduction to Cryptocurrency | Simplilearn
Dec. 24, 2024	Introduction to Decentralized Finance (DeFi) | Alison
Dec. 17, 2024	Diploma in Cryptocurrency | Alison
Nov. 26, 2024	Ingenii QML for Medical Imaging Course | Ingenii
Nov 2024	Womanium Artificial Intelligence Certificate | Womanium Quantum
Aug. 9, 2024	Certificate of Achievement – Pennylane Quantum Machine Learning Challenge | Womanium Quantum
Oct. 2, 2024	Womanium Global Quantum + AI Badge | Womanium Quantum
Oct 2024	Quantum Computing Hardware Certificate | Womanium Quantum
Jun 2024	Practical Introduction to Quantum-safe Cryptography | IBM

2024	QBronze Diploma Certificate - Quantum Computing and Programming| Womanium Quantum
2024	QCobalt Diploma Certificate – Quantum Annealing | Womanium Quantum
2024	QNickel Diploma Certificate – Quantum Algorithms | Womanium Quantum
Mar 2024	Quantum Explorer 2023 – Intermediate Badge | IBM
Feb 2024	QCOURSE 501-1 – Elements of Quantum Computing and Programming | QWorld & Faculty of Computing – University of Latvia
Nov 2023	IBM Quantum Challenges: Quantum Explorers – Expert Navigator Badge | IBM
Nov 2023	IBM Quantum Challenges: Quantum Explorers – Space Combatant Badge | IBM
Oct 2023	An Introduction to Probabilistic Machine learning | Hasso Plattner Institute
Oct 2023	Womanium Global Quantum 2023 Badge | Womanium Quantum
Sep 2023	IBM Quantum Challenges: Quantum Explorers - Captain Badge | IBM
Sep 24 2023	QNickel Diploma in Quantum Computing & Programming – Qnickel7-358 | Womanium
Sep 20 2023	Certificate of Appreciation: Mentor - QIntern 2023-122 | QWorld
Sep 18 2023	QNickel Diploma in Quantum Computing & Programming - QNickel5-13 | QWorld
Sep 13 2023	Quantum Computing for Natural Sciences (with IBM Quantum) | OpenHPI - Hasso Plattner Institute, Potsdam
Sep 11 2023	Analyzing the Impact of Quantum Computing on Future Wireless Networks | IEEE
Aug 22 2023	LFQ102: Quantum Computing Essentials For Senior Leaders | The Linux Foundation
Aug 13 2023	QMercury Diploma in Quantum Key Distribution | Womanium
Jun 06 2023	Quantum Optimization (with IBM Quantum) | OpenHPI - Hasso Plattner Institute, Potsdam
May 31 2023	IBM Quantum Challenge: Spring 2023 Achievement | IBM
May 28 2023	Dummies guide to Practical Quantum Computing with IBM Qiskit | Udemy
Apr., 24 2023	Qubit x Qubit's Introduction to Quantum Computing Course, provided | IBM Quantum & The Coding School
Mar. 2023	Cybersecurity Fundamentals | IBM Skills-Build
Jan., 18 2023	Quantum Machine Learning (with IBM Quantum Research) | OpenHPI - Hasso Plattner Institute, Potsdam

Jan., 17 2023	Introduction to Quantum Computing (QC0101EN, provided by IBM) | IBM Skills Network
Oct., 10 2022	Introduction to Quantum Computing with Qiskit (with IBM Quantum Research Zurich) | OpenHPI - Hasso Plattner Institute, Potsdam
Sep., 08 2022	Python 101 for Data Science (PY0101EN), Certificate and Badge | Issued By IBM
Aug., 29 2022	Fundamentals of Quantum Computing (LFQ101), Certificate and Badge| Issued By The Linux Foundation
July, 2022	QSilver Diploma Certificate | QLibya
July, 2022	QBronze Diploma Certificate | Womanium Global Quantum Computing & Entrepreneurship Program
Jun, 2022	QBronze Diploma Certificate | QGhana Entangling Workshop
Feb. 22, 2022	IEEE Quantum Internet Summit
Feb. 2, 2022	IEEE Quantum Computing Healthcare Summit
Jan. 10, 2022	IEEE Quantum Computing Innovation Summit
Jan. 2022	IEEE Quantum Executive Series
Dec. 27, 2021	IEEE Quantum Engineering Bootcamp: Module 2 - Integrating Your Findings - Best Practices and Pitfalls for Setting Up a Quantum HW Test Program
Dec. 27, 2021	IEEE Overview of Quantum Machine Learning Algorithms
Dec. 27, 2021	IEEE Spin Qubit System Integration with Advanced Semiconductor Manufacturing
Dec. 27, 2021	IEEE Implications of Quantum Technologies for Cybersecurity
Dec. 27, 2021	IEEE Bringing a Quantum Computer to Life with RF Pulses: Fundamental Aspects of Pulse Level Control
Dec. 27, 2021	IEEE Fundamental Concepts in Quantum Error Correction
Dec. 27, 2021	IEEE Quantum Systems Engineering for Scientists
Dec. 27, 2021	IEEE Systems Engineering Approaches and Challenges in Quantum Computing
Dec. 26, 2021	IEEE CEO Summit on Quantum Computing
Dec. 26, 2021	IEEE Quantum AI Sustainability Symposium
Dec. 26, 2021	IEEE Quantum: Quantum Engineering: Photonics in Quantum Computing and Quantum Networking
May. 12, 2021	IEEE Quantum: Automation and Synthesis of Quantum Circuits
May. 05, 2021	IEEE Quantum: A Hands-On Approach to Quantum Computing Learning – Comics and Coding
Apr. 28, 2021	IEEE Quantum Workforce Development: A New Approach to Quantum Machine Learning
Apr. 20, 2021	IEEE Quantum: Bootcamp - Module 1: Test and Evaluation for Quantum Devices

CONFERENCES, SEMINARS, WEBINARS AND WORKSHOPS

Mar 09, 2025

Ghana Germany Quantum Connect (GGQC), Symposium Quantum Science and more in Ghana and Germany (SYGG)
Hosted by: University of Bonn and University of Dortmund

Oct 05, 2023

All IBM Qiskit Machine Learning Tutorials Seminar.
Hosted by: Kevin Kawchak, Founder CEO of Medical Quantum Machine Learning Software

Feb 23, 2023

Quantum Programming for Neuroradiology/Medical Imaging.
Healthcare and Quantum Computing Discussion Group
Hosted by: CEO Kevin Kawchak

Apr 26, 2022

International Conference on Communication, Computing and Industrial Engineering (ICCCIE-2022) I IIMT College of Engineering, Greater Noida, India

Presented Papers on the topic:

- Pharmacy Information Systems: a systematic review
- Innovative Approaches to Classical and Quantum Reflected Binary Code Generation using Pascal Triangle, Reversible N-Input C-Gate and Reversible N-Input Q-Gate

Mar 02, 2022

Quantum Webinar I IEEE

Topic: IEEE Quantum Computing Climate Change Summit

Keynote Speakers: **John Levy,** CEO, SEEQC, **Steve Brierley**, CEO, Riverlane, **Masayoshi Terabe**, Head of Quantum Transformation (QX), Sumitomo Corporation, **Paul Lipman**, President Quantum Platforms, ColdQuanta, **Richard Murray**, CEO, ORCA Quantum Computing

Roundtable Discussion

Moderator: **Raghunath Koduvayur**, Head of Marketing and Communications, IQM Quantum Computers

Panelists: **Rima Kasia Oueid**, Commercialization Executive at United States Department of Energy, **Daniel Franke**, Principal at M Ventures, **Dr. Mansour Taghavi Azar Sharabiani**, Lecturer, Imperial College London

Feb 02, 2022

Quantum Webinar I IEEE

Topic: IEEE Quantum Computing Healthcare Summit

Keynote Speakers: **Mark Nicholas Jones**, CEO, Molecular Quantum Solutions, **Hans Melo**, Ph.D., CEO, Menten AI, Inc., **Joseph Emerson**, Ph.D., Head of Quantum Strategy, Keysight Technologies**, Julian van Velzen**, CTIO and Head of Capgemini Quantum Lab

Invited Experts: **Dr. Frederik Flother,** IBM Quantum Life Sciences & Healthcare Industry, Consultant, IBM Academy of Technology Member & Master Inventor, Quantum Computing & AI, **Dr. Elica Kyoseva**, Quantum Computing Scientist, Boehringer-Ingelheim

Jan. 18- Feb 08, 2022 Webinar I Charles Sturt University

Topic: Certified Information Systems Security Professional (CISSP) (Updated) Short Course

Jan. 10, 2022 Quantum Webinar I IEEE

Topic: IEEE Quantum Computing Innovation Summit

Keynote Speakers: **Matt Johnson**, CEO at QC Ware**, Oscar Diez**, Head of Quantum Computing at the European Commission**, Jan Goetz**, CEO at IQM, **Michael Marthaler**, CEO at HQS Quantum Simulations, **Emmanuel Viale**, Managing Director at Accenture Technology Innovation

Invited Experts: **Peter Clark**, Head of Computational Science & Engineering, Johnson & Johnson, Janssen Therapeutics Discovery, **Erik Huestis**, Partner, Foley Hoag, **Heather West**, Senior Research Analyst, IDC

Dec. 27, 2021 Quantum Webinar I IEEE

Topic: IEEE Quantum Engineering Bootcamp: Module 2 - Integrating Your Findings - Best Practices and Pitfalls for Setting Up a Quantum HW Test Program

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: **Will Madsen**, Quantum Systems Engineering and Architecture Manager, Rigetti Computing

Dec. 27, 2021 Quantum Webinar I IEEE

Topic: Overview of Quantum Machine Learning Algorithms

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: Dr. Troels Steenstrup Jensen, Head of KPMG Global Quantum and Head of Machine Learning at KPMG Denmark, Marco Ugo Gambetta, NewTech Consultant at KPMG Denmark

Dec. 27, 2021 Quantum Webinar I IEEE

Topic: Spin Qubit System Integration with Advanced Semiconductor Manufacturing

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: Dr. Lester Lampert, Quantum Computing Engineer at Intel Corporation

Dec. 27, 2021 Quantum Webinar I IEEE

Topic: Implications of Quantum Technologies for Cybersecurity

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: Dr. Troels Steenstrup Jensen, Head of KPMG Global Quantum and Head of Machine Learning at KPMG Denmark,

Marco Ugo Gambetta, NewTech Consultant at KPMG Denmark

Dec. 27, 2021 Quantum Webinar | IEEE

Topic: Bringing a Quantum Computer to Life with RF Pulses: Fundamental Aspects of Pulse Level Control

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: Dr. Lior Ella, Research and Product Team Leader, Quantum Machines

Dec. 27, 2021 Quantum Webinar | IEEE

Topic: Fundamental Concepts in Quantum Error Correction

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: Dr. Julian Kelly, Research Scientist, Google AI Quantum

Dec. 27, 2021 Quantum Webinar | IEEE

Topic: Quantum Systems Engineering for Scientists

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: Dr. John Martinis, Physics Professor, UCSB

Dec. 27, 2021 Quantum Webinar | IEEE

Topic: Systems Engineering Approaches and Challenges in Quantum Computing

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: Will Madsen, Quantum Systems Engineering and Architecture Manager, Rigetti Computing

Dec. 26, 2021 Quantum Webinar | IEEE

Topic: Quantum Engineering: Photonics in Quantum Computing and Quantum Networking

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Instructor: **Dr. Peter McMahon**, Assistant Professor, Cornell University School of Applied and Engineering Physics (AEP)

Dec. 26, 2021 Quantum Webinar | IEEE

Topic: Quantum CEO Summit on Quantum Computing

Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program

Keynote Speakers: **Rob Hays**, CEO & President, Atom Computing & **Dr. John Martinis**, CEO, Quantala & **Dr. Vikram Sharma**, CEO, QuintessenceLab & **Dr. Michele Mosca**, CEO, evolution

Dec. 26, 2021	Quantum Webinar I IEEE Topic: Quantum AI Sustainability Symposium Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program Keynote Speakers: **Dr. Lucas Joppa,** Chief Environmental Officer, Microsoft & **Ms. Jenny Bofinger-Schuster**, Senior Vice President for Sustainability & Operational Excellence, Siemens
Oct. 6, 2021	Dell Technologies Emerging Africa Forum I Dell Technologies Topic: General Session - The Data Driven Future is Now Speakers: **Habib Mahakian, Michael Dell, Mohammed Amin, Dawn Jones, Vanice Hayes, Jason Sandery, Aongus Hegarty, Daniel Keyworth, Haile Gebrselassie**, etc. Topic: Create New Value by Innovating with Data Speaker: **Faiz Parkar**, Messaging Director, Data Innovation, Dell Technologies Topic: Developing a Collaborative, Agile Workspace with Dell Technologies Speaker: **Jason Goh**, Director, Industrial Design Engineering, Dell Technologies
May. 12, 2021	Quantum Webinar I IEEE Topic: Automation and Synthesis of Quantum Circuits Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program Instructors: **Amir Naveh**, Co-Founder and Head of Algorithms, Classiq Technologies
May. 05, 2021	Quantum Webinar I IEEE Topic: A Hands-On Approach to Quantum Computing Learning – Comics and Coding with Q# Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program Instructors: **Dr. Kitty Y. M. Yeung**, Microsoft Quantum, Sr. Program Manager
May. 05, 2021	Quantum Webinar I IEEE Topic: A Hands-On Approach to Quantum Computing Learning – Comics and Coding with Q# Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program Instructors: **Dr. Kitty Y. M. Yeung**, Microsoft Quantum, Sr. Program Manager

April. 28, 2021	Quantum Webinar I IEEE Topic: Interesting Kernel-Based Quantum Machine Learning Approach Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program Instructors: **Dr. Jae-Eun Park**, Program Director for IBM Quantum GBS QCOC
April. 23, 2021	Quantum Web Seminar I WebEx Topic: Quantum Talks Instructors: **Carl Williams, Erik DeBenedictis, Chris Franzino, Anne Nielsen**
April. 20, 2021	Quantum Webinar I IEEE Topic: Test and Evaluation for Quantum Devices Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program Instructors: **Will Madsen**, Quantum Systems Engineering and Architecture Manager Rigetti Computing
April. 14, 2021	Quantum Webinar I IEEE Topic: Overview of Quantum Machine Learning Algorithms Host: Maëva Ghonda, IEEE Chair, Quantum Computing Education for Workforce Development Program Instructors: **Dr. Troels Steenstrup Jensen**, Head of KPMG Global Quantum and Head of Machine Learning at KPMG Denmark, and **Marco Ugo Gambetta**, NewTech Consultant at KPMG Denmark
Nov. 29, 2019	Graduate Research Workshop I TYCO CITY HOTEL Theme: Science and Society: Conducting Research in the Sciences and Engineering Moderator: Dr. Mary Antwi I UENR Chairperson: Prof. Harrison K. Dapaah I UENR Speaker: Prof. Robert Kingsford-Adaboh I UG, Legon
Oct. 28-Oct 29, 2019	Workshop on Accelerated Computing by Nvidia Deep Learning Institute I UENR By: Dr. Mark Amo-Boateng, NVIDIA ambassador and DLI Certified Master Instructor, Lecturer, UENR
Jan. 27, 2018	Post Graduate Research and Data Analysis Seminar I UENR Courses: R Programming Software, SPSS, General Outlook, of Post Graduate Research Authorized By: Prof. Emmanuel Opuni-Frimpong, Pro-VC/Dean, School of Graduate Studies
Jan. 19, 2018	Symposium on Smart Evolution, Digitized Ghana I UENR Sessions: Smart City, Smart Forest and Smart Energy Chairman: Prof. Harrison Kwame Dapaah, Vice Chancellor, UENR

Jan. 25, 2017 — Humboldt Fellowship and Award Opportunities I CUCG

By: Prof. Daniel Obeng-Ofori (Vice Chancellor, CUCG and Humboldt Ambassador Scientist for Ghana)

Mar. 22, 2017 — Do leaders' characteristics and regime transitions in Africa matter for citizens' health status? I CUCG

By: Dr. Frank Gyimah Sackey, Lecturer, CUCG

Feb. 8, 2017 — Tracking our electrical electronic waste footprint I CUCG

By: Dr. Vincent Kyere, Lecturer, CUCG

QUANTUM COMPUTING POSITIONS

May 19 – August 20, 2023 — Mentor I QIntern2023 | Quantum Project Internship Program of the QWorld Association

Hosted by: QResearch Department

Coordinators: Aritra Sarkar, Oskar Słowik, Adam Glos

QIntern Team: Yasir Ölmez, Nouhaila Innan, Shantanu Misra

Project: **qi23_07:** Transparency, security, and immutability of the electoral process in Ghana using classical and quantum blockchain technology

Jun 24 – Jun 29, 2022 — Mentor I QGhana Entangling Event - QBronze89 | Quantum Computing and Programming Workshop

Course: Quantum Computing and Programming

Organizers: Lorraine Tsitsi Majiri, Zeki Can Seskir

Workshop Lead: Utku Birkan

Mentors: Comfort Mintah, Peter Nimbe, Jennifer Ahiable, Dorcas Attuabea Addo, and Crownie Eme

May 16 – July 15, 2022 — Teaching Assistant I QKrishi and Indian Institute of Science Education & Research (IISER), Tirupati. India

Course: Quantum Computing: Introduction to Algorithms and Implementation using Qiskit

Description: Online Hands-on Course for Students and Professionals with Equal Measure of Theory and Programming Labs Taught by Top Experts from Academia and Industry

Task: Help in setting assignments and arranging course modules

TRAINING

Jul. 28, 2021 — Scopus Training for UENR. Elsevier

By: Daneshree Moodley, Customer Consultant, Elsevier

Mar. 3 – Mar. 4, 2021 — Scopus Training. Elsevier
By: Daneshree Moodley, Customer Consultant, Elsevier

CONTRIBUTIONS

Sep 19. 2022 - Jun 06. 2023 Norwegian University of Science and Technology (NTNU)

Doctoral Thesis Title: The Impact of Stress on Healthcare Staff's Cybersecurity Practices

Name of Phd Candidate: Muhammad Ali Fauzi

Contribution: Conceptualization, Data Collection, Analysis, Writing, Editing and Visualization

EDITORIAL REVIEW BOARD MEMBER

Nov 30. 2023 - 2024 International Journal of Security and Privacy in Pervasive Computing (IJSPPC), IGI Global

REVIEWER

A reviewer for twelve (14) international journals; Quantum Information Processing, Quantum Machine Intelligence, EPJ Quantum Technology, Journal of Supercomputing, Scientific Reports, Cluster Computing, Artificial Intelligence Review, Journal of King Saud University, Automated Software Engineering, Discover Computing, Mesopotamian Journal of CyberSecurity, Computing, International Journal of Machine Learning and Cybernetics, Discover Applied Sciences, International Journal of Information Security. Sample papers reviewed are shown below.

Dec. 28 2023 – Jan 7. 2024 Scientific Reports, Springer

Paper: The mathematical definition of quantum computers refutes the computability of quantum computers: Proofs of countability-complexity theorem of quantum computers and the undecidability of the halting problem of quantum computers.

Jun. 5 – Jun 26. 2023 Quantum Machine Intelligence, Springer

Paper: A Quantum "Black Box" for Entropy Calculation

Jun. 4 – Jun 18. 2023 International Journal of Security and Privacy in Pervasive Computing (IJSPPC), IGI Global

Paper: Privacy and Data Protection in ChatGPT and Other AI Chatbots - Strategies for Securing User Information

May 26 – Jun 16. 2023 Journal of King Saud University – Computer and Information Sciences, Elsevier

Paper: Lightweight white-box encryption communication system for drones

Jan. 26 – Feb. 20 2023 EPJ Quantum Technology, Springer

Paper: Quantum algorithm for classical multidimensional scaling

Jan. 21– Feb. 18 2023 The Journal of Supercomputing, Springer

Paper: Quantum Fourier transform based binary arithmetic operations in quantum computing

Apr. 24 – Dec. 2022 International Journal of Security and Privacy in Pervasive Computing (IJSPPC), IGI Global

Paper: Individual Processing of Phishing Emails, Towards a Phishing Detection Framework

Paper: Impact of Cryptographic key on Scalable Computing

Paper: A study on Metaverse awareness, cyber risks, and steps for increased adoption

Mar. 29 – Mar. 31, 2021 Indian Journal of Science & Technology
Paper: Policy Compliance Standard for Underground Fiber Cable Deployment and Post-Deployment Protection - Manuscript IJST-2021-518
Published: July 2021. Indian Journal of Science and Technology 14(25):2088-2094
DOI: 10.17485/IJST/v14i25.518

May 9 – May 12, 2020 Journal of Computer Science. Science Publications
Paper: Adopting Intelligent Modelling in Underground Optical Network Fault Tracing: A Comprehensive Survey - Manuscript 6305-JCS
Published: October 2020. Journal of Computer Science 16(10):1355-1366
DOI: 10.3844/jcssp.2020.1355.1366

PUBLICATIONS

Nimbe, P., Donkor, K., Oppong-Asante, A., & Essumang, C. (2026). Hybrid quantum–classical digital twin for predictive maintenance in cyber-physical systems. *The International Journal of Advanced Manufacturing Technology*. Advance online publication. https://doi.org/10.1007/s00170-026-19078-2

Nimbe, P., Kyiewu, B., Bessa-Simons, L., Amponsah, C., & Oppong-Asante, A. (2026). Performance evaluation of post-quantum cryptography in IoT-based cyber-physical systems. *Cyber-Physical Systems*. Advance online publication. https://doi.org/10.1080/23335777.2026.2718708

Osei-Wusu, F., Appiah, O., Mensah, P. K., Nimbe, P., & Donkoh, E. K. (2026). A graph-based Bayesian intrusion detection framework with No-U-Turn sampling for uncertainty-aware IoT security. *Concurrency and Computation: Practice and Experience*, *38*(14), Article e70817. https://doi.org/10.1002/cpe.70817

Tagbo, S. K., Adekoya, A. F., Mensah, P. K., Nimbe, P., Akoto-Adjepong, V., & Ayidzoe, M. A. (2026). Survey on mobile money fraud prevalence in Ghana. International Journal of Accounting, Auditing and Performance Evaluation, 22(2), 249–267. https://doi.org/10.1504/IJAAPE.2026.154333

Osei-Wusu, F., Appiah, O., Mensah, P. K., Nimbe, P., & Donkoh, E. K. (2026). A graph-based Bayesian intrusion detection framework with Gibbs sampling for uncertainty-aware IoT security. *Journal of Reliable Intelligent Environments*, *12*, Article 9. https://doi.org/10.1007/s40860-026-00272-8

Antwi, S. B., Appiahene, P., Ayawli, B. B. K., & Nimbe, P. (2026). Deep learning for brain tumour analysis: A systematic review of CNN-Transformer hybrids in multimodal imaging. *International Journal of Biomedical Imaging*, *2026*, Article 4763936. https://doi.org/10.1155/ijbi/4763936

Nimbe, P., Kyiewu, B., Bessa-Simons, L., Amponsah, C., & Oppong-Asante, A. (2026). Performance evaluation of post-quantum cryptography in IoT-based cyber-physical systems. *Cyber-Physical Systems*. Advance online publication. https://doi.org/10.1080/23335777.2026.2718708

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Nimbe P., Frimpong S.O., Opoku M. (2014). An Efficient Strategy for Collision Resolution in Hash Tables, International Journal of Computer Applications (0975 – 8887) Volume 99– No.10, pp. 35-41

THESIS & DISSERTATION

2022 Quantum-Classical and Classical-Quantum Crypto Program Translation | PhD

2014 An Improved Symmetric Cipher Encryption for Securing Data | MPhil.

2009 SVD Information Management System| B.Sc.

COMMUNITY SERVICE

2022 Evangelism, Preaching and Counselling I Sunyani Technical University

2019 Evangelism, Preaching and Counselling I Odumaseman Senior High School

2018-2020 Evangelism, Preaching and Counselling I Sunyani Nursing & Midwifery Training College - SNMTC

2016-Current Evangelism, Preaching and Counselling I UENR

2014-2020 Evangelism, Preaching and Counselling I CUCG

2014 Barcamp Sunyani 2014
Theme: Growing a green economy
November 22 I VAG HALL - SUNYANI
http://www.barcampghana.org/barcamp-sunyani-2014-growing-a-green-economy/
Role Played: Mentoring

2013 Barcamp Sunyani 2013
Theme: Energizing the resource base in Sunyani to act.
November 9 I UENR
http://www.barcampghana.org/register-for-barcamp-sunyani-2013/
https://mightyafrican.blogspot.com/2013/12/enegerizing-resource-base-in-sunyani-to.html
Role Played: Mentoring

2012 Barcamp Sunyani 2012
Theme: First-ever Barcamp Sunyani -- The experience.
April 21 I UENR - Faculty of Forest Resources Technology (KNUST - SYI)
https://qaphui.blogspot.com/2012/04/1st-ever-barcamp-sunyani.html

POSTGRADUATE THESIS INTERNAL ASSESSMENT (M.Sc./MPhil)

2025 Adaptive Contrast-Aware Capsule Networks for the Recognition of Medical Images I UENR

2025 Privacy Preserving Data Mining in Blockchain-Based Systems Using Simplified Geometric Data Transformation Method | UENR

2025 Adversarial Attacks on Multimodal Deep Learning | UENR

2025 A Hybrid Intrusion Detection Model for Enterprise Networks | UENR

2025 Predicting Cyberattacks using a stacked LSTM Model | UENR

2025 Smart Moderation of Sticker-Based Conversation: Visual Recognition and Toxicity Comments in Twi Language | UENR

2024 Machine Learning-Driven Adaptative Detection and Mitigation Strategies for Distributed Denial of Services Attacks | UENR

2024 Teacher-Guide Knowledge Management System: Case Study at Twene Amanfo Senior High/Technical School | UENR

2024 Anatomization of web applications with a focus on responsive design concept | UENR

2024 Predicting Students Learning Styles Using Machine Learning Algorithms | UENR

2024 Predicting Academic Performance and Student Progression Using Tailored Feature Interactions | UENR

2024 Detection of Network Anomaly in the Internet of Things | UENR

2023 Automatic Number Plate Recognition Using Deep Learning | UENR

2023 Image Classification Using Machine Learning | UENR

2023 Detection and Classification of Solid Waste in Urban Environments Using Deep Learning | UENR

2023 Facial Emotional Recognition Using an Optimized Convolutional Neural Network | UENR

2023 Modeling the Relationship between Land Surface Temperature and Land Use/Land Cover: Machine Learning Approach | UENR

2023 Fault Prediction in 4G/LTE Mobile Telecommunication Network Using Machine Learning | UENR

2023 Vulnerability Assessment of Web Applications: Security, Threats, Countermeasures and Pitfalls | UENR

DOCTOR OF PHILOSOPHY THESIS SUPERVISED (PhD)

2023-2025 Enhancing Energy Efficiency in Developing Country Households: A MultiFaceted Approach to Anomaly Detection, Forecasting, and Policy Evaluation for Household Appliance Consumption | UENR

MASTERS THESIS SUPERVISED (M.Sc./MPhil)

2025 Distributed Denial of Service (DDoS) Attacks Detection using Quantum Machine Learning | UENR

2025 Hybrid Quantum-Classical: Combining Quantum and Classical Features for Classification Task | UENR

2025 Support Vector Regression For Forecasting Ghana's USD to GHS Exchange Rate: A Comparative Study with Econometric and ML/QML Baselines | UENR
2025 Surgical Procedure Recognition Using Quantum Machine Learning | UENR
2025 Comparative Analysis of Loan Risk Forecasting Using Quantum Machine Learning and Classical Machine Learning | UENR
2024 Comparative Analysis of Quantum Software Development Kits | UENR
2023 Strengthening Cybersecurity in Africa Using Quantum Machine Learning | UENR

UNDERGRADUATE STUDENT PROJECT WORKS SUPERVISED (BACHELORS & DIPLOMA)

2024 Detection of Weeds on Agricultural Field Using Machine Learning | UENR
2024 Church Management System | UENR
2024 Implementation of Secure SMS-Based System For Election Reporting | UENR
2024 University Teachers Association of Ghana (UTAG) and Welfare System | UENR
2023 An Optimized Xception Model For Lung Cancer Detection Using CT Scan Images | UENR
2023 A Stroke Prediction Model With Machine Learning | UENR
2023 Electronic Waste Management System | UENR
2023 Ensuring Food Security Using Blockchain Technology in Ghana: Opportunities, Challenges and Recommendations | UENR
2023 Online Medical Consultation Application | UENR
2023 Online Real Estate Hub | UENR
2023 Student Information Management System for School of Sciences | UENR
2021 Greener FM Management System | UENR
2021 District Education Office Information Management System (DEOIMS) | UENR
2021 Design and implementation of E-Commerce Website | UENR
2021 RentaRoom Software | UENR
2021 Design and Implementation of a Web-Based Alumni Tracking System for University of Energy and Natural Resources | UENR
2021 E-library Management System | UENR
2021 Pizzeria Ordering System | UENR
2021 Vehicle Management System for Danfos Auto Engineering and Consultancy | UENR
2021 UENR Management Information System | UENR
2021 Waste Management System in Rural and Urban Areas Using Internet of Things | UENR
2020 Designing a Website for the Department Of Computer Science and Informatics on UENR Campus | UENR
2020 Design and Implementation of a Pharmacy Information System: Case Study at Opportunity Herbal Clinic | UENR
2020 Design and Implementation of a Computerized Universal Point of Sales | UENR
2020 A Systematic Review of Pharmacy Information Systems | UENR
2020 Design and Implementation of Facility Management System (A Case Study of UENR Estate Office) | UENR
2019 IOT Based Smart Home Energy Management Application | UENR
2019 Tracking and Monitoring System for Ghana | UENR
2019 Mobile Application for Visually Impaired Students | UENR
2018 Predicting Air Pollution with Artificial Neural Networks | UENR

2018 Developing a Backbone Database System (Ghana as a case study) | UENR
2018 Digital Signature Verification using Artificial Neural Networks | UENR
2018 Intelligent Hybrid Algorithm for Municipal Waste Prediction (Case study of Sunyani Municipality) | UENR

2018 Load control management in intelligent networks | UENR
2018 Mobile Application to enhance client services of sanitation agencies, Case Study – Zoomlion | UENR
2018 Intelligent Approach to Predicting Power Generation | UENR
2017 Cloud Records Management (Patients Records) | CUCG
2017 University Systems (Website, Student, Lecturer Portal) | CUCG
2017 Airline Reservation System | CUCG
2017 Election Monitoring System | CUCG
2017 Ticketing and Tracking System for Interschool Games (SET) | CUCG
2016 Instructional Assistant for Junior High School (An Automated Teaching Assistant) | CUCG
2016 Disease Outbreak Monitoring System | CUCG
2016 An E-Commerce Application for Electronics Consumables | CUCG

SOFTWARE PROJECTS UNDERTAKEN

Hospital Management System
Microfinance System (MiFi)
National Climate Change Expert Mapping System
Electronic Voting System
SVD Information Management System (SIMS)
Didactic Portal
Clinician Communication Network

SKILLS

Quantum Computing (Python, IBM Qiskit, Google Cirq, Xanadu Pennylane, jsqubits)
Information Security & Cryptography
Cybersecurity
Full-Stack Quantum Computation
Quantum Machine Learning

Web Programming (Python, Django, React)
Mobile Programming (Flutter, Dart)
Software Engineering
Data Analytics Programming (Python and Pandas)
Cryptocurrency (Bitcoin, Ethereum)
Blockchain Technology (Solidity, Ethereum IDE, Smart Contracts)
Financial Technology (fintech)

LINKS

Research Gate: https://www.researchgate.net/profile/Peter-Nimbe

LinkedIn: https://www.linkedin.com/in/dr-peter-nimbe-945b1b32/

UENR: https://uenr.edu.gh/staff/dr-peter-nimbe/

RECOMMENDATIONS

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