

## CURRICULUM VITAE

<b>Name:</b>	Dr. Patrick Oduor Owoche	
<b>Telephone:</b>	+254-722843180	
<b>Marital Status:</b>	Married	
<b>Religion:</b>	Christian	
<b>Email:</b>	<a href="mailto:powoche@kibu.ac.ke">powoche@kibu.ac.ke</a>	
<b>Contact Address:</b>	P. O. Box 722843180 – 40100 Kisumu, Kenya	

<b>Present Position:</b>	Lecturer	<b>Grade:</b>	12
<b>Division:</b>	Academic	<b>Department:</b>	Information Technology

### Career Objective

Looking for a challenging role in a reputable organization to utilize my technical, research, and management skills for the growth of the organization as well as to enhance my knowledge about new and emerging trends in the IT sector.

### Key Skills and Competencies

- Web & Multimedia technologies
- Instructional Design
- Research
- Cloud Application Development
- Social media

### Personal Attributes

### Academic Qualifications

Area of Learning	Year	Institution	Award
Doctor of Philosophy in IT	2019	Kibabii University	PhD in Information Technology
Master of Science in IT	2014	Masinde Muliro University of Science and Technology	MSc in Information Technology
Bachelor of Education Science	2000	Egerton University	BEd Science (Maths & Physics)
Secondary Education	1993	Sigalame High School	KCSE Certificate

### Other Training

Area of Training	Duration & Year	Training Institution	Award
Virtual Exchange	6 weeks - 2024	The Virtual Exchange Academy – Stevens Initiative	Certificate
Digital Forensic & Investigation	November 2022	Cyber Roam Africa Technologies Ltd	Certificate
Supervisors of Doctoral Candidates at African Universities	Jul- Nov 2020	Stellenbosch University, South Africa	Certificate
Management of Internationalization	October 2020 – December 2021	Leibniz Universität Hannover, Germany	Certificate
Cloud Application Developer	3 weeks 2020	IBM	Certificate
Competency Based Assessment Training	1-week 2020	TVET, CDACC	Certificate

Instructional Design and Digital Content Development	1-week 2019	Captiva International	Certificate of participation
Pedagogies in Provision of University Education in the 21 <sup>st</sup> Century	1-week 2018	Kibabii University	Certificate participation
Java Programming	1-week 2016	Oracle Academy	Proficiency Certificate
Information Communication Technology (ICT)	2006 – 2009	Kenya Accountants and Secretaries National Examinations Board (KASNEB)	Certified Information Communication Technologist (CICT) III
Computer Networking	2008-2009	CISCO	CCNA II
Information Communication Technology (ICT)	1 year 2005	KTI	Diploma in Office System Technology

#### Employment History

Period	Employer	Designation/Duties and Responsibilities
2020 - Date	Kibabii University	Lecturer, Department of Information Technology
2015-2020	Kibabii University	Tutorial Fellow, Department of Information Technology
2011-2012	Estill High School - South Carolina, USA	Mathematics Teacher
2001-2015	Teachers Service Commission	Mathematics, Physics, and Computer Studies Secondary School Teacher;

#### Administrative History

Period	Employer	Designation/Duties and Responsibilities
2025 - Date	Kibabii University	Director Open Distance E-Learning (ODEL)
2020 - 2025	Kibabii University	Co-ordinator, Linkages and International Affairs
2015-2019	Kibabii University	Exams Coordinator - Department of IT
2014-2015	Teachers Service Commission, St. George's Mixed Secondary School	Director of Studies
2009-2011	Teachers Service Commission, Xaverian High School	Head of Science Department
2008-2009	Teachers Service Commission, Xaverian High School	Games Teacher

#### National Assignment

Period	Employer/Institution	Designation/Duties and Responsibilities
2022 - Date	International Association for the Exchange of Students for Technical Experience (IAESTE) Kenya Chapter	National Treasurer

#### International Assignment

Period	Institution	Designation/Duties and Responsibilities
July 2022	Amity University, Uttar Pradesh	Resource person in the 2022 Faculty Development Program

Jul 2022 - Date	Chandigarh University, India	Visiting International Faculty
Jul 2022	Chandigarh University, India	Resource Faculty in the 2022 International Faculty Development Program
Mar 2021	Amity University, Uttar Pradesh	Adjudicated in the “STASTU International Story Telling Competition” in Amity Youth Festival 2021

<b>Academic Lectures</b>		
<b>Period</b>	<b>Institution</b>	<b>Designation/Duties and Responsibilities</b>
April 2024	Iloilo Science and Technology University - Philippines	International Guest Lecturer on the topic: Web Technology Trends
Jul 2022 - Date	Chandigarh University, India	Visiting International Faculty
Jul 2022	Chandigarh University, India	Resource Faculty in the 2022 International Faculty Development Program
Mar 2021	Amity University, Uttar Pradesh	Adjudicated in the “STASTU International Story Telling Competition” in Amity Youth Festival 2021

<b>Membership to Committees</b>		
<b>Period</b>	<b>Board/Committee</b>	<b>Designation</b>
April 2024 - Date	Center for Creative and Performing Arts and Sports Board	Member
May 2020 – Date	Office of Careers Services Board	Member
Aug 2022 - Date	Mainstream Science, Technology and Innovation (STI)	Champion
May 2022 - Date	Kibabii University Research Crack Team	Member
Feb 2021	Evaluation and Monitoring Sub-Committee of Kibabii University Strategic Plan 2020 - 2022	Member
June 2020	Technology Enabled Learning Policy Development Committee	Member
Feb 2020 – Date	Complains and Complements Committee	Member
August 2019 to April 2020	Linkages and International Affairs Policy Development Committee	Chair
June 2018 - 2020	ODEL Board	Co-opted Member
2018 - 2022	Kibabii University ICT Directorate Board	Member
2015 - 2016	BSc IT Curriculum Review Committee	Chair

<b>Attendance of Seminar/Workshops</b>		
<b>Period</b>	<b>Seminar/Workshop Details</b>	<b>Organizers/Facilitators</b>
11 <sup>th</sup> -12 <sup>th</sup> June 2025	Beyond Academic Guidance: Exploring the Multifaceted Nature of Supervisor Support in Doctoral Education	Kibabii university 7 <sup>th</sup> biennial Virtual international Conference
10 <sup>th</sup> Feb 2025	Workshop: Personalized Learning: An Illusive Dream or Practical Reality?	McGraw Hill
15 <sup>th</sup> – 16 <sup>th</sup> Jun 2021	Kibabii University 5 <sup>th</sup> International Conference	Kibabii University
6 <sup>th</sup> Apr -28 <sup>th</sup> May 2021	Developing blended courses using Moodle at Kibabii University	Commonwealth of Learning
6 <sup>th</sup> -16 <sup>th</sup> Apr 2021	The DIES Training Course “Management of Internationalisation”	Leibniz University Hannover, Germany

19 <sup>th</sup> - 30 <sup>th</sup> Oct 2020	The DIES Training Course “Management of Internationalisation”	Leibniz University Hannover, Germany
12 <sup>th</sup> - 14 <sup>th</sup> Jun, 2019	Kibabii University 4 <sup>th</sup> International Conference	Kibabii University
3 <sup>rd</sup> - 4 <sup>th</sup> Jun, 2018	Kibabii University 3 <sup>rd</sup> International Conference.	Kibabii University
23 <sup>rd</sup> -25 <sup>th</sup> Jan, 2018	ENTER2018 PhD Workshop, Jönköping, Sweden	International Federation for IT and Travel & Tourism (IFITT)
15 <sup>th</sup> – 16 <sup>th</sup> May, 2017	IFITT Doctoral Summer School 2017 – Salzburg University of Applied Sciences, Austria	International Federation for IT and Travel & Tourism (IFITT)
21 <sup>st</sup> -23 <sup>rd</sup> Jan, 2017	ENTER2017 eTourism Conference PhD Workshop Research Proposal - Roma Tre, Italy	International Federation for IT and Travel & Tourism (IFITT)

### Completed Supervision

B	Student	Title	Level
1.	Nyang’au J. Okemwa	Modelling Semantic Interoperability in Distributed Health Information Systems Through Enabling Techniques	PhD IT
2.	Bangirinama Alain	Electronic Banking and Customer Satisfaction of Commercial Banks in Bujumbura City, Burundi	MBA with IT
3.	Ajwang’ Stephen Oloo	Modeling climate-smart agriculture using predictive analytics for sorghum production in the Lake Victoria basin, Kenya	PhD IT
4.	Kosgey Festus Kipchirchir	Security threats and vulnerabilities risk remediation model for secure student management information system for universities in Kenya	MSC IT
5.	Namataka Scovia	Developing a Secure Identification Framework Utilizing Fingerprint and Finger Vein Patterns	MSc IT
6.	Dennis Gichuki Karugu	Sustainable Smart Farming Based on Wireless Sensor Networks and Machine Learning Algorithms	PhD IT
7.	Alphus Kakuko	Unveiling Consumer Choices: Analyzing User Behavior on Online Market Places to Decode Purchasing Influences	MSc IT
8.	Foni Agness Kalaja	Influence of Product Quality on Customer Satisfaction Among Employees of the County Government of Bungoma, Kenya	Masters

### Ongoing Supervision

S/No.	Student	Title	Level
1	Okeyo Sadati Odhiambo	Applicability of Geographic Information System for Sustainable Municipal Solid Waste Management: A Case of Migori Municipality	MSc IT
2	Asiago Donald Cherani		

### Thesis Examination

S/No.	Student	Title	University and Level
1.	Mutai Joram Kiptoo	A Predictive Model of ICT Strategy and Technology Alignment Maturity for Cloud Computing in Organizations	PhD IT, KIBU
2.	Ronoh Lilian Cherotich	Integrated Artificial Intelligence Internet of Things Blockchain Model for Improving Transparency in Seed Supply Chain in Kenya	PhD IT, KIBU
3.	Clifford O. Odundo	Leveraging Machine Learning Models to Predict Hiv/Aids Treatment Interruption in Patients	MSc Data Sci Co-Operative Uni

4.	Mcdonald Owuor	Enhancing Weather Forecasting Through Machine-Learning Models: A Focus on Short and Medium Weather Patterns In Nairobi County	MSc Data Sci Co-Operative Uni
5.	Mcdonald Otieno Ogutu	Leveraging Machine Learning for Diabetes Prediction: Ensemble Model	MSc Data Sci Co-Operative Uni
6.	Roseline Wangui Nyamwamu	Simulating Extended Reality: An Integrative Model Towards Enhancing a Paradigm Shift on Competency-Based Curriculum in Kenya	PhD IT, KIBU
7.	Ben Mariga Bogonko	A model for integration of Gamification in Learning Management system for Students' motivational Learning experience	PhD IS, Kisii University
8.	Julia Nduta Korongo	Modelling Digital Marketing Strategies as Indicator of Hyper-Personalization Based on Website Content Usage for Small and Medium Enterprises	PhD IT, KIBU
9.	Ngaboyimbere Fabien	Business Intelligence and Enterprise Resource Planning Integration Framework on Service Delivery in Local Government Administration Units in Rwanda	MSc IT KIBU
10.	Nanyama Brenda	E-Learning System Features Usability Framework for Competency-Based Curriculum Education in Kenya	MSc IT KIBU
11.	Bostley Muyembe Asenahabi	Learning management systems and web conference tools usability model towards self-directed learning in universities in kenya	PhD IT, Kibabii University
12.	KURIA, Jane Nyambura	Modeling perceived usefulness of mobile apps based on quality factors established by university students	PhD IT, Kibabii University
13.	Muhingabire Karake Gloriose	Adaptability of social media networks towards enhancing performance of small and medium enterprises in Kigali City Rwanda	MBA with IT Kibabii University
14.	Onunga Jeremiah Osida	Terrestrial biodiversity data processing and sharing architectural model based on IoT technology for sustainable livelihood	PhD IT, Kibabii University
15.	Muyobo Daniel Khaoya	Internet of Things based multi-agent model for patient-centered health consultancy services	PhD IT, Kibabii University
16.	Mutali Marine Benard	Automating customer relationship management system as value indicator in service delivery in water and sewerage companies in western Kenya	MBA Kibabii University
17.	Baras Mamati Godliphas	Framework for adoption of technology-enabled self-directed learning in Kenyan universities	MSc IT Kibabii University
18.	Isaac Wafula Wekesa	Modeling website attributes and Google Scholar citation for improved webometrics ranking	MSc IT Kibabii University
19.	Mukanda Adeline	Modeling website attributes and Google Scholar citation for improved webometrics ranking	MSc IT Kibabii University
20.	Misoi K Thomas	Developing an adoption model of biometric application for authorization and identification in banks: case study of Eldoret towns, Kenya	MSc IS Kisii University

#### Grants and Funds Attracted

Period	Funds Attracted	Role	Amount	Funding Organization
2025	2025 Martial Arts Open School in Kenya.	Co-PI	USD 8,900	UNESCO ICM
2024	Supporting Researcher Community Training Grants – Media Training	PI	1000 GBP	Association of Commonwealth Universities

2024	Supporting Researcher Community Training Grants – Presentation Skills Media	Co- PI	1000 GBP	Association of Commonwealth Universities
2024	Evaluating the impact of AI on Poverty, Health, Energy and Climate SDGs	PI	US\$ 15,000	The Future of Life Institute <a href="https://futureoflife.org/grant-program/impact-of-ai-on-sdgs/">https://futureoflife.org/grant-program/impact-of-ai-on-sdgs/</a>
2024	NLA, Moi University and Kibabii University Erasmus+ Global Mobility	Co-PI	Norwegian Kroner 4,000,000	Erasmus + Global Mobility
2024	Fostering Innovation in African HEIs to Enhance their Relevance in the Digital Innovation Labour Market	Researcher	Euro (€) 799,943	European Commission and Erasmus + (ERASMUS-EDU-2023-CBHE-STRAND-2) Project Ref. No. UNIHUBS-GAP-101128313
2023	Sustainable Bagasse Drier Solution in Sugarcane Waste Management	Researcher	UK£ 246,630	United Kingdom Research Innovate
2023	Strengthening Mental Health in Secondary Schools	Researcher	EUR 30,000	Africa UniNET
2020	DIES Training Course on “Management of Internationalization”	Researcher	EUR1300.00	Dialogue on Innovative Higher Education Strategies, DIES
2018	PhD Research Grant	Researcher	KES 1,000,000.00	National Research Fund for PhD Research
2018	Infrastructure Grant – Kibabii University ICT Hub	Researcher	KES 64,600,000	National Research Fund - Kenya

### Appreciation

Date	Organization	Task
	Boehringer Ingeheim	Planning, organizing and implementing Venture4Change 2022nProgram
Jul 2022	Chandigarh University, India	Resource Faculty in the 2022 International Faculty Development Program
Mar 2021	Amity University, Uttar Pradesh	Adjudicator in the “STASTU International Story Telling Competition” in Amity Youth Festival 2021
Sep 2019	Kibabii University	Recognition for assisting Kibabii University win a call to host a “Centre of Excellence in Information Communication and Technology and Engineering” To Be Funded Through The Lake Region Economic Bloc (LREB)

### Membership in Professional Bodies

Title/Name of Professional Body	Membership No.	Designation
2017 to date: International Federation for IT and Travel & Tourism (IFITT)		Member
2010 to date: Professional member - Association for Computing Machinery (ACM)	9476989	Professional Member

### Publications in Refereed Journals

Okemwa, J., Owoche, P., & Mbuguah, S. (2025). Assessing the role of electronic health records standards in advancing semantic interoperability in distributed health systems in Kenya. *Global Journal of*

*Engineering and Technology Advances*, 23(3), 131–138. <https://doi.org/10.30574/gjeta.2025.23.3.0190>

- Bangirinama, A., Aliata, V., & Owoche, P. (2025). Assessing the Effect of Internet Banking on Customer Satisfaction of Commercial Banks in Bujumbura City, Burundi. *European Journal of Business and Strategic Management*, 10(1), 48–56. <https://doi.org/10.47604/ejbsm.3243>
- Okemwa, J., Owoche, P. & Mbugua, S. M. (2025). A Fuzzy Ontological Model for Semantic Interoperability in Distributed Healthcare Information Systems. *International Journal of Research and Innovation in Applied Science (IJRIAS)*. DOI: <https://doi.org/10.51584/IJRIAS.2024.912043>
- Gichuki, D. K. Mbugua, S. M. & Owoche, P., & Oyile, P. O. (2024). Assessing Preparedness for Smart Farming and Technology Adoption among Kenyan Farmers. *International Journal of Research and Innovation in Applied Science*, 9 (8) DOI: <https://doi.org/10.51584/IJRIAS.2024.908048>
- Kosgei, F, Owoche, P & Maroko R. (2024). Assessing Security Vulnerabilities in University Student Management Information Systems (SMIS) and Their Impact on Student Data Security. *International journal of advanced research in computer and communication engineering*, 13 (9), DOI: 10.17148
- Wekesa, R. W. & Owoche, P. (2024). Social Dynamics in Academic Pathways: A Comprehensive Study of Social Influences on University Program Selection in Kenya. *International Journal of Scientific Research*.
- Ajwang, S., Owoche, P., & Mutonyi, J. (2024). Access and Use of Information for Enhanced Adoption of Climate Smart Agricultural Practices among Smallholder Farmers in Lake Victoria Basin, Kenya. *AgroEnvironmental Sustainability*, 2(2), 62–73. <https://doi.org/10.59983/s2024020201>
- Wakahia, S. K. & Owoche, P. O. (2024) Application of Facebook and Twitter Media Communication Channels in University Libraries in Kenya. *Open Access Library Journal* , 11: e11415. <https://doi.org/10.4236/oalib.1111415>
- Ajwang, S. O., Owoche, P. O & Mutonyi, J. Information Needs of Smallholder Farmers in Lake Victoria Basin for Enhancing Climate-smart Agricultural Practices. *International Journal of Computing Sciences Research*, [S.l.], v. 8, p. 2711-2733, apr. 2024. ISSN 2546-115X.
- Foni, A. M., Sirai, S. C. & Owoche, P. O. (2023). Influence of product quality on customer satisfaction among employees of the county government of Bungoma, Kenya.
- Owoche, P. O., Abuya, J. O., & Ong'anyi, P. O. (2022). Doctoral virtual supervisory meeting: Engagement optimization strategies. *American Journal of Education and Information Technology*, 6(2), 119-124. <https://doi.org/10.11648/j.ajeit.20220602.18>
- Olang'o, A. J., Ongany, O. P., & Owoche, O. P. (2022). Doctoral Liminality and Responsible Conduct Practices in Doctoral Research. *IOSR Journal of Research & Method in Education*, 12 (5) 52-59.
- Ong'anyi, O., P., Owoche, P. O., & Abuya, J. O. (2022). Knowledge and Practice of Responsible Research Ethics among Doctoral Students and Alumni: A Case Study of Kibabii University, Kenya.
- Owoche, P. (2021). Student mobility procedures manual development strategy for international offices in universities. *IOSR Journal of Research & Method in Education (IOSR-JRME)*, 11(6, Ser. IV), 8-12. <https://doi.org/10.9790/7388-1106040812>
- Owoche, P., Mbugua, S., & Ikoha, A. (2019). Using Twitter for Branding: Hotel Strategies in Kenya. *International Journal of Advanced Research in Computer and Communication Engineering*, 8 (4) 263-273.
- Owoche, P., Wabwoba, F., & Wechuli, A. N. (2019). Global Information Technology Infrastructure in Addressing the Problem of Environmental Degradation in Kenya. *International Journal of Information Technology Convergence and Services (IJITCS)*, 9 (1), 1-14.
- Owoche, P., Mbugua, S., & Ikoha, A. (2019). Hotel Branding using Facebook and Dialogic Principles of Internet Communication. *International Journal of Advanced Research in Computer Engineering and Technology (IJARCET)*, 8(2), 38-46.
- Motochi, V., Barasa, S., Owoche, P., & Wabwoba, F. (2017). The Role of Virtualization Towards Green Computing and Environmental Sustainability. *International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)*, 6 (6), 851 - 858.
- Barasa, P., Owoche, P., & Nambiro, A. W. (2016). E-learning Transforming Economies. *International Journal of Trend in Research and Development, Volume 3(6)*, 387-389.

Etene, Y., Owoche, P., & Oboko, R. (2016). A Multi-Agent System to Support ICT-based Distance Learning through Modeling of Learner Needs: The Case of Bachelor of Education at the University of Nairobi. *IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 18, Issue 5, Ver. IV, 26-31.*

Owoche, P. O., Wanyembi, G., & Kilwake, H. J. (2015). Evaluating Total Cost of Ownership for University Enterprise Resource Planning: Case of Maseno University. *IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 17, Issue 2. 79-87*

Refereed Learning Modules			
Date	Course	Program	University
2025	CIT 322: Mobile Application Development	BSc Cyber Security and Digital Forensics	Open University of Kenya
2024	SF 216: Web and Service Programming	BSc Cyber Security and Digital Forensics	Open University of Kenya
2024	CDS 806: IT Project Management	MSc Digital Service Management	Open University of Kenya
2024	CDS 807: Digital Infrastructure and Services	MSc Digital Service Management	Open University of Kenya
2020	MIT 812: Business Information Systems	MSc Information Technology	Kibabii University

Referees		
1	<b>Name</b>	Prof. Joshua Ondura Ogendo
	<b>Designation</b>	DVC (Academic & Students Affairs)
	<b>Organization</b>	Kibabii University
	<b>Address</b>	P. O. Box 1699 – 50200, BUNGOMA
	<b>Email</b>	jogendo@kibu.ac.ke
	<b>Telephone</b>	+254-722892504

Referees		
1	<b>Name</b>	Prof. Julius Maiyo
	<b>Designation</b>	DVC (Planning, Partnerships, Research and Innovation)
	<b>Organization</b>	Kibabii University
	<b>Address</b>	P. O. Box 1699 – 50200, BUNGOMA
	<b>Email</b>	maiyojulius@kibu.ac.ke
	<b>Telephone</b>	+254-721223154

2	<b>Name</b>	Dr. Roselida Maroko Ongare
	<b>Designation</b>	CoD - Information Technology,
	<b>Organization</b>	Kibabii University
	<b>Address</b>	P. O. Box 1699 – 50200, BUNGOMA
	<b>Email</b>	rongare@kibu.ac.ke
	<b>Telephone</b>	0721597710

