

CURRICULUM VITAE

Joanne Nabwire Lyanda

PhD-Curriculum and Instruction, M. Ed-Curriculum and Instruction, B. Ed Hons (Science),

PERSONAL INFORMATION

Name: Joanne Nabwire Lyanda

Address: P.O Box 1957-50100, Kakamega, Kenya

Email: joannelyanda@gmail.com

Telephone: +254724840296

Year of Birth: 1983

CAREER OBJECTIVE

To excel in the field of teaching training and learning by providing consistently improved skills, current knowledge and conducting continuous research in education, artificial intelligence in education, competency-based education, instructional technology and curriculum development and implementation.

EDUCATION BACKGROUND

2026: **Doctor of Philosophy in Curriculum and Instruction**

Kisii University

Thesis Title: Assessment of Educational Technology Adoption in Teaching and Its Influence n Students' Academic Performance in Public Secondary Schools in Kakamega County, Kenya

2013: **Master of Education (Curriculum and Instruction)**

Masinde Muliro University of Science and Technology

Master's Thesis Title

- Influence of a teacher's gender on student performance in biology in secondary schools in Kenya.

2008: **Bachelor of Education Science, Hons**

First Class Honours - *Masinde Muliro University of Science and Technology*

2002: **Kenya Certificate of Secondary Education (K.C.S.E): B+**

Butere Girls' high School

1998: **Kenya Certificate of Primary School (K.C.P.E): A-**

Mavusi Primary School

EMPLOYMENT HISTORY

March 2021 to date: **Lecturer**, Department of Curriculum and Instructional Technology,
Masinde Muliro University of Science and Technology.

Responsibilities:

- Teaching
- Research
- Poat graduate student supervision
- School practice zone coordinator
- Advising students on school practice

August 2014 to February 2021: **Assistant Lecturer**, Department of Curriculum and Instructional Technology, Masinde Muliro University of Science and Technology.

Responsibilities: - Teaching
- Research
- Departmental time table and examination coordinator
- School practice coordinator for Vihiga zone
- Advising students on school practice

August 2022 to February 2026: **Assistant Lecturer**, Department of Curriculum and Instruction (CAI)Technology, Kaimosi Friends University (KAFU).

Responsibilities: - Teaching curriculum development, instructional methods, competency based curriculum, micro-teaching and media resources

January 2015 to September 2015: part time lecturer, Kisii University, Kisumu Campus

Responsibilities: - Teaching curriculum development, implementation and evaluation

March 2009 to July 2014: **Graduate Assistant**, Department of Curriculum and Instructional Technology, Masinde Muliro University.

Responsibilities: -Offer tutorials to undergraduate students
- Teaching diploma students
- Research Assistant
- Assistant departmental time table and examination coordinator
-Participated in seminars and conferences
- Advising students on school practice

May 2008 to march 2009: **Teacher**- St. Anne's Buyangu Girls' secondary School

Responsibilities; -Teaching Biology and Chemistry
- Assistant coach, netball team

May – Aug 2007: **Intern teacher**, Ingotse Boys High School

Teacher of Biology and Chemistry

TEACHING EXPERIENCE

Over ten (10) years of teaching experience: at both undergraduate, masters and diploma levels. Teaching the following courses:-

- Instructional Methods and Strategies
- Educational Media and Resources
- Media resources and Micro – teaching
- Theory of instruction
- Instructional design
- Fundamentals of competency-based curriculum
- Management of educational resources
- Curriculum Studies
- Health, Illness and Disease Prevention
- Family Health Education
- Curriculum Skills in Non-formal Education

RESEARCH AND PUBLICATIONS

Articles in Refereed Journals

- Songok, R. J; **Nabwire, J.L** and Ong'unya, R.O: (2014): 'Teacher Training Programme and Instructional Competencies in Environmental Education for Sustainability among Secondary School Teachers in Kenya', *Researchjournal's Journal of Education*, vol. 2, No. 4, April 2014 pp 1-12
- Ong'unya, R.O, Aura, C. M, **Nabwire, J.L** and Songok, R. J: (2014): "The Plastic Waste Menace in Kenya: A Nairobi City Situation", *International Journal of Current Research*, vol. 6, No. 4, April 2014 pp 6175-6179.
- **Nabwire, J.L**, Toili, W. W, Ong'unya, R.O, and Songok, R. J: (2014): 'Influence of a Teacher's Gender on Student Performance in Biology in Secondary Schools in Kenya', *International Journal of Advanced Research*, vol. 2, No. 2, February 2014, pp178-186
- Auni, T. R, Songok, R. J, Ong'unya, R.O, and **Nabwire, J.L**: (2014): 'Determinants of Guidance and Counseling programme in Assessing students Social Adjustment in Secondary Schools in Siaya district, Kenya', *International journal of Humanities and Social Science*, vol. 4, No. 4, February 2014, pp 69-76.
- Ong'unya, R.O, **Nabwire, J.L**, Amollo, J. W. A, and Songok, R. J: (2014): 'The Discrepancy between the Expected HIV and AIDS Education Programme Content and The Content Offered To Kenyan Secondary School Youth', *International Journal of Advanced Research* Vol. 2, No. 3, March 2014 pp 833-840.
- **Nabwire, J. L**, Ong'unya R. O, and Songok J. R, (2015): '*Trends in ICT Adoption in Education: a Case of E-Learning among Universities in Kenya*' published in *Africa and the challenges of globalization: opportunities and prospects* pp185
- Omollo O. D, **Nabwire J. L**, Koteng' G. (2019) *Technical and Vocational Education and Training (TVET) Transformation and Diversification of Socio-Economic Landscape of Education In Kenya: Potential And Challenges*, in Amutabi M. N (Ed), *A New Kind of Development in Africa*, Centre For Democracy, Research and Development (CEDRED), Nairobi, Kenya ISBN 978-9966-116-66-6
- Omollo O. D, **Nabwire J. L**, Koteng' G. (2019) *Inclusive Education and the Less Restrictive Environment Provision for Special Needs Learners in Schools: Potential And Challenges*, in Amutabi M. N (Ed), *African Renaissance Revisited*, Centre For Democracy, Research and Development (CEDRED), Nairobi, Kenya ISBN 978-9966-116-67-3
- **Nabwire J. L**, Ong'unya R. O and Simiyu A. M. (2020) *Social Intelligence in Education and Implications on Sustainable Development* Amutabi M. N and Mayaka A.N (Eds), *Dynamics of*

Sustainable Development in Africa,, Centre For Democracy, Research and Development (CEDRED), Nairobi, Kenya ISBN 978-9966-116-58-1

- **Nabwire J. L** ,Omollo O. D and Koteng' A. G, (2020) *Enhancing creative and critical thinking skills for sustainable development through classroom instructional practices* Amutabi M. N and Mayaka A.N (Eds), Dynamics of Sustainable Development in Africa, Centre For Democracy, Research and Development (CEDRED), Nairobi, Kenya ISBN 978-9966-116-58-1
- Omollo O. D, **Nabwire J. L**, and Ong'unya R. O. (2020) *Prospects and Potential in Problem-Based Learning: a Transformative Instructional Approach in 21st Century for Sustainable Development*, Amutabi M. N (ed) *Discourses on Sustainable Development in Africa* Centre For Democracy, Research and Development (CEDRED), Nairobi, Kenya ISBN 978-9966-116-66-6
- Owidi O. S and **Nabwire J. L** (2022). Education on the Move, the Role of Smart Mobile Phone Devices in Virtual Learning, *IOSR Journal of Humanities and Social Science*, vol27(10)(53-59) e-ISSN:2279-0837. P-ISSN:2279-0845
- Owidi O. S and **Nabwire J. L** (2023). The Teachers voice and ownership in competency based curriculum (CBC) in Kenya: Application of Bernstein's Theory *International Journal of Research and Innovation in Social Science* (IJRISS) ISSN No. 2454-6186
- **Lyanda J.N**, Koteng' A. G and Ong'unya R.O, (September 2023), School Administration Support Systems for Educational Technology Adoption and Students' Academic Achievement in Secondary Schools in Kenya. *Africa Journal of Empirical Research*, 4(2):363-374
DOI: [10.51867/ajernet.4.2.36](https://doi.org/10.51867/ajernet.4.2.36)
- **Lyanda J.N.**, Owidi S.O., & Simiyu A. M. (July, 2024). Rethinking Higher Education Teaching and Assessment In Line With AI Innovations: A Systematic Review And Meta-Analysis. *African Journal Of Empirical Research*, 5(3), 325-335. <https://doi.org/10.51867/ajernet.5.3.30>
- Owidi S.O and **Lyanda J.N.**, (april, 2024) The Place Of ChatGPT In Institutions Of Higher Learning: A Resident Evil. *African Journal Of Education Science And Technology*, 7(4) 22-35. <https://doi.org/10.2022/ajest.v7i4.1022>
- Owidi S.O Omieno K.K and **Lyanda J.N.**, (October, 2024) Exploring the Potential of Immersive Technologies to Enhance Online Learning Experiences and Engagement: A Systematic Literature Review. *International journal of innovative science and research technology*, 9(9)2456-2165 [10.38124/ijisrt/IJISRT24SEP1144](https://doi.org/10.38124/ijisrt/IJISRT24SEP1144)
- Owidi S.O., **Lyanda J.N.** and Wangila E. W., (November, 2024) Comparative Study on Accuracy of Responses by Select AI Tools: ChatGPT and Perplexity AI Visa Vee Human Responses, *International journal of innovative science and research technology*, 9(11)2456-2165
DOI: [10.5281/zenodo.14274466](https://doi.org/10.5281/zenodo.14274466)

- **Lyanda, J. N.**, and Owidi, S. O. (January, 2025). Affective Pedagogy and Emotional Intelligence in Online Learning: Enhancing Teacher-Student Relationships. *Research Journal of Education, Teaching and Curriculum Studies*, 3(1), 15–25. <https://doi.org/10.58721/rjetcs.v3i1.891>
- **Lyanda, J. N.**, and Owidi, S. O April 2025, Integrating Artificial Intelligence in Micro Teaching: The Role of ChatGPT for Customized Feedback and Interactive Learning, [International Journal of Research in Social Sciences and Humanities](#) 12(2):1-10, DOI: [10.5281/zenodo.15130275](https://doi.org/10.5281/zenodo.15130275)
- Owidi, S. O., and **Lyanda, J. N.** (May 2025). Technological and Classical Pedagogical Agents in Action: How Design Influences Learning in Kenyan Higher Education. *African Journal of Empirical Research*, 6(2), 370–384. <https://doi.org/10.51867/ajernet.6.2.31>
- Omollo, D. O; **Lyanda, J. N** & Okono, E. O. (November, 2025). Examining AI Predictions of Academic Self-Efficacy and Their Influence on Teaching Strategies, Curriculum Design, and Student Support Systems. *Journal of Popular Education in Africa*, 9(11), 5 - 15.
- **Lyanda, J. N.** (December, 2025). Learning Environment, Learning Outcomes and Artificial Intelligence: The Synergistic Relationship. *International Journal of Research and Innovation in Social Science (IJRISS)*, 9(11). [10.47772/IJRISS.2025.91100510](https://doi.org/10.47772/IJRISS.2025.91100510)

CONFERENCES/SEMINARS/WORKSHOPS

Presentation of Papers at Academic and Professional Conferences

- Songok, R. J, **Nabwire, J. L** and Injendi, P. J, (2013): ‘*Challenges of Environmental Education for Sustainability Training Programmes for Secondary School Teachers in Kakamega County*’ paper presented at the Kenya Educational Management Institute (KEMI) conference on capacity development of Education Managers towards Achievement of Education for All, held on 26th to 28th June, 2013 at KEMI grounds, Nairobi, Kenya.
- **Nabwire, J. L**, Ong’unya R. O, and Songok J. R, (2014): ‘*Trends in ICT Adoption in Education: a Case of E-Learning among Universities in Kenya*’ paper presented at the first annual international interdisciplinary conference of Kisii University conference whose theme was: the New World Order, held on 30th July to 2nd August, 2014 at Kisii University, Kisii, Kenya.
- Ongunya R O., **Nabwire, J. L** and Songok J. R (2015) *Primary Education In National Development: A Case Of Kenya* paper presented at 2nd international interdisciplinary conference of kisii university whose theme was: Africa, Looking East Or West held on 24th June To 27th June 2015 At Kisii University, Eldoret Campus
- Agevi H, Tsingalia H. M, **Nabwire J. L**, Wabusia M And Songok R (2019) ‘*Effects of Management Regimes on the Extraction of Timber and Non-Timber Forest Products (NTFPs) from Kakamega Forest*’: paper presented at the 13th multi-disciplinary international conference of Masinde Muliro University of Science and Technology whose theme was: Transformational Leadership, Innovation and Technology Transfer for Sustainable Development in Developing Countries held on 19th to 21st June 2019 At Masinde Muliro University of Science and Technology, Kakamega, Kenya

- Omollo O. D, **Nabwire J. L**, Ongunya R O. (2019) '*Innovative Instructional Practices for Competency-Based Curriculum: A case of Kenya*' paper presented at the 13th multi-disciplinary international conference of Masinde Muliro University of Science and Technology whose theme was: Transformational Leadership, Innovation and Technology Transfer for Sustainable Development in Developing Countries held on 19th to 21st June 2019 At Masinde Muliro University of Science and Technology, Kakamega, Kenya
- **Nabwire J. L**, Ongunya R O. (2019) '*Inclusive Education and the Less Restrictive Environment Provision for Special Needs Learners in Schools*' paper presented at the 9th annual international interdisciplinary conference of AISA-KESSA-CEDRED- Multimedia University whose theme was Global Trends in Africa's Development held at Multi-Media University, Nairobi, Kenya
- Omollo O. D, **Nabwire J. L**, Koteng' G. (2019) '*Will TVET Transform and Diversify Socio-Economic Landscape of Education in Kenya*' paper presented at the 9th annual international interdisciplinary conference of AISA-KESSA-CEDRED- Multimedia University whose theme was Global Trends in Africa's Development held at Multi-Media University, Nairobi, Kenya
- Omollo D. O, **Lyanda J. N**, and Ongunya R. O (2019) '*Enhancing Competency-Based Education Through Communication and Collaboration, Necessary Skills In 21st Century: A Case Of Kenya*' paper presented at the 7th Annual International Conference organized by the educational management society of Kenya from 3rd to 4th October, 2019 whose theme was Education Reforms for Sustainable Development
- Amunavi H. O, **Lyanda J. N** and Okono E, (2019) Policy Challenges Influencing Effective Teacher Management And Development In Primary Schools-Kenya paper presented at the 7th Annual International Conference organized by the educational management society of Kenya from 3rd to 4th October, 2019 whose theme was Education Reforms for Sustainable Development
- Amunavi H. O, **Lyanda J. N** and Okono E, (2019) Institutional Variables Influencing Students' achievement In Devolved Technical Vocational Educational And Training Towards Economic Transformation paper presented at the 7th Annual International Conference organized by the educational management society of Kenya from 3rd to 4th October, 2019 whose theme was Education Reforms for Sustainable Development
- Opiyo A. R, Nabwire J. L et al, (2022) Defying All Odds During COVID-19 Period: Community- Led Strategies in Averting Learning Losses and Promoting Learning Continuity in Bunyala, Busia County, Kenya , presented at the 15th international multi-disciplinary virtual conference held at Masinde Muliro University of Science and Technology from 25th to 27th may 2022 whose theme was operationalizing agriculture through digital Technology, Innovation, Education and entrepreneurship for Sustainable development.

- Khasakhala O.E, Nabwire J. L et al, (2022) socio-economic and emotional barriers to transition of LWDs in Primary Schools in Kakamega county, Kenya: the Parental Perception, presented at the 15th international multi-disciplinary virtual conference held at Masinde Muliro University of Science and Technology from 25th to 27th may 2022 whose theme was operationalizing agriculture through digital Technology, Innovation, Education and entrepreneurship for Sustainable development.
- Omollo O. D, **Nabwire J. L**, Ongunya R. O (2023) '*parental Involvement and Engagement: A Paradigm Shift from Monologue to Dialogical dimension of Education* ' paper presented at the 14th annual international interdisciplinary conference of KESSA-AISA- Multimedia University whose theme was The Global west, North, East, and Africa held at Multi-Media University, Nairobi, Kenya

Participation in Workshop/Seminars/conference

- Workshop on *Capacity Building in ICT and pedagogy: Leadership through staff Development* held at Masinde Muliro University of Science and Technology, Kakamega between 15th and 27th August, 2010.
- Attended the Network of Emerging Scholars on Internationalization (NESI) workshop on *Developing and Utilizing Open Educational Resources for Research and Information Sharing on International education in Africa*, at Kampala Uganda, from 2nd – 3rd November, 2010
- Attended the African Network for Internationalization of Education (ANIE) conference on *Internationalization of Higher Education and Research in Africa: Responding to the Opportunities and Challenges*, at Kampala Uganda, from 4th -5th November, 2010
- Attended a one day seminar on *ISO 9000:2008 awareness* on 8th March, 2011 at Masinde Muliro University of Science and technology, Kakamega.
- Attended the International Conference on Tropical Forest Resources on *Forest Biodiversity, Conservation and Climate Change*, between 6th and 10th June, 2011, at Masinde Muliro University of Science and technology, Kakamega
- Attended a sensitization workshop on *opportunities under Science Technology and Innovation grant* organized by MMUST and NCST at Masinde Muliro University of Science and technology on 22nd February 2012 at Masinde Muliro University of Science and technology, Kakamega
- Attended the training on *KOHA library management system workshop*, between 6th February, 2013 at Masinde Muliro University of Science and technology, Kakamega
- Attended the *Curriculum development, review and implementation* workshop for academic staff, held between 23rd January 2014 and 24th January 2014 at Masinde Muliro University of Science and technology, Kakamega
- Attended the *Curriculum review, development and implementation* workshop for Faculty of Education and Social Sciences academic staff, held on 4th March 2014 at Masinde Muliro University of Science and technology, Kakamega.
- Participated in a workshop on research methodology for social scientists held at Masinde Muliro University between 14th to 15th July 2015
- Participated in the Christian and Scientific Association of Kenya (CSAK) regional workshop themed *Interaction of Science, Religion and Culture in Africa: Past, Present and Future Perspectives* between 14th to 16th August, 2019 at Ruiru, Kiambu County, Kenya
- Participated in the Kenya National Qualification Authority (KNQA) stakeholders' virtual workshop on the Recognition of Prior Learning (RPL) in Kenya that took place on 24th June, 2020

RESEARCH AND CONSULTANCY

- **Research Assistant:** in a research by the Higher Education Loans Board (HELB) (2010)
- Investigator in a research on: **School Based Support Responses (Sbsrs) to Covid 19 Pandemic: Promoting Learning Participation and Recovery of Vulnerable Primary School Children in Bunyala Sub-county, Busia Kenya (2021)**
- Investigator in an research on **Mathematics Instructional Practice Improvement Project (MIPIP) (2021)**
- Researcher in the **Inclusive Home Based Early Learning Project (IHELP)** as a member of the academic committee in Ikolomani, Kakamega county

COMMUNITY SERVICE

- Participant in the save the Kakamega Forest Marathon
- Member, CHES Beneficiaries Association of Kenya, Kakamega (CHEBAK)
- Member of the mentorship committee for CHEBAK
- Member, board of management St. Mary Goree Kalenda Girls

MEMBERSHIP IN PROFESSIONAL BODIES

- Christian And Scientific Association Of Kenya (CSAK)
- African women in science and Engineering (AWSE)
- Organization of Environmental Conservationists (OEC)
- Green planet Conservation Initiative (GRECI)
- Utafiti foundation

REFEREES

Prof. Aggrey Mukasa Simiyu,
Masinde Muliro University of Science and Technology,
P. O. Box 190-50100, Kakamega
Cell phone: +254720286036 Email: asimiyu@mmust.ac.ke

Dr. Grace A. Koteng'
Kisii University
P. o box 408-40200 kisii
Cell phone: +254722617025 Email: gkoteng@gmail.com

Dr. Raphael O. Ong'unya
Masinde Muliro University of Science and Technology
P.O. Box 190-50100, Kakamega
Cell phone: +254712328869 Email: rodhiambo@mmust.ac.ke