

CURRICULUM VITAE



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Educational Communication Technology & Curriculum Studies
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EDUCATION

- Doctor of Philosophy Degree (2008-2011) Holds a Doctor of Philosophy (PhD) degree in Curriculum Studies from Maseno University, Kenya. The doctoral research was an investigation of creative abilities of students, with a dissertation titled *Creativity: Status, perceptions, correlations and differences among secondary school physics students in Nairobi Province, Kenya*.
- Master of Education Degree (1990–91) Studied for and obtained Master of Education (MEd.) degree in Curriculum Studies by coursework and research from Kenyatta University, Kenya. The research involved an investigation of the attitudes of primary school pupils and teachers towards prevocational subjects.
- Bachelor of Education Degree (1984–87) Studied for and obtained a Bachelor of Education (BEd. Science) Honours degree from Kenyatta University, Kenya. The teaching subjects studied were Physics and Chemistry.

RESEARCH EXPERIENCE

Dissertations

Undertook dissertation research in both Masters and PhD degree programs. Both studies employed mixed-methods research paradigms, combining qualitative techniques and inferential statistics.

Collaborative Research: Member of a collaborating research group involving Maseno University School of Education, School of Agriculture and Food Security, Kenya Institute of Curriculum Development, and Agricultural Extension Services—with proposal approved for

a three-year multidisciplinary research grant by the National Research Fund (NRF). The purpose of this study is to establish agricultural hubs in secondary schools to facilitate transfer of agricultural skills to the community, for food security.

Independent Research: Developing a research on Teacher Effectiveness, a study which seeks to trace possible roots of teacher effectiveness from pre-service teacher training, leading to conclusions that have implications for policy on teacher training model. Among other themes, this involves an analysis of pedagogical components of pre-service training program as predictors of effectiveness of secondary school physics teachers. It is an advancement of research interest in Physics education, aimed at providing insight into the role pre-service teacher training can play in alleviating chronic learners' underachievement in Physics and to enhance Creativity. The study is an advancement of my PhD work on creativity.

TEACHING EXPERIENCE

Lecturer (From April, 2010)	Serving as a Lecturer at Maseno University. Courses taught include Methods of Teaching Physics, Curriculum Development, and General Methods of Teaching at undergraduate level, and Research Methods in Education, Curriculum Studies, and Critical Thinking in Education at Master's and PhD level, among others.
Postgraduate Supervision	Two (2) Masters and two (2) PhD students supervised to completion. Currently supervising three (2) PhD and six (6) Master's candidates.
High School	Taught Physics and Chemistry with distinction at Maranda High School (1987-89), and later Moi Girls' School Nairobi (1992-2002). Thereafter served as National Trainer for practicing mathematics, physics, biology and chemistry teachers under the in-service programme, Strengthening of Mathematics, Science in Secondary Schools (SMASSE). The programme involved training of personnel directly involved in the secondary mathematics and science education in SMASSE member countries in Africa.

HONOURS AND AWARDS

Awarded certificate of Board of Governors (now BOM) recognition of meritorious performance in the teaching of Physics at Maranda High School (1988) and in Chemistry and Physics at Moi Girls, Nairobi (1998).

PROFESSIONAL MEMBERSHIP

Membership to the Strategic Educational Research and Evaluation in Kenya (SEREK)

SKILLS AND TRAINING

Physics Examiner (1988-1996)	Trained with the Kenya National Examinations Council (KNEC) and contracted as an Examiner in Physics (for theory and practical papers), and served the Council for 5 years as examiner and 2 years as Examination Centre Organizer.
In-service Workshop on Mathematics and Science Education (2000)	Participated in a workshop on the Improvement of Science and Mathematics education in secondary schools (2000), organized for science and mathematics teachers in Nairobi Province.
Capacity Development for In-Service Trainers (January – February, 2005)	Attended a capacity development course for in-service trainers of Mathematics and Science Education at the University of the Philippines National Institute for Science and Mathematics Education Development (UP-NISMED)
National Trainer (2003 – 2008)	<p>Served as a National Trainer in Physics, a position that involved in-service training of practicing science and mathematics teachers in Kenya and 27 other countries in Africa, under the SMASE INSET Programme. Other related duties undertaken included</p> <ul style="list-style-type: none">• Developing training manual and related materials• Planning and facilitating Workshops for Principals, Quality Assurance and Standards Officers (QASOs), District Education Officers (DEOs) and other stakeholders• Planning and facilitating Third Country Training (Training of in-service providers from other African countries)• Monitoring and Evaluation of in-service training in other African countries. Participated in the Monitoring and Evaluation of National Training for Key trainers in the Republic of Niger, held at Niamey, Republic of Niger, from 7th to 31st January, 2008• Organizing and facilitating regional conferences for SMASE-WECSA member countries
Development and Facilitation of Online Course Modules	Trained in July 2011 as a course developer for online module (Moodle platform) and facilitation of online course, organized by the e-Learning Campus, Maseno University. Developed online Modules (ECT 527 & CST 804) for Maseno University.

Partnership for Enhanced Blended Learning (PEBL)	Participated in a PEBL Workshop organized by the Association of Commonwealth Universities (ACU) in collaboration with University of Edinburgh from 10 th to 11 th October, 2018 in the Hilton Double Tree Hotel, Nairobi, having been nominated to represent the School of Education, Maseno University. The Workshop provided essential skills, which included developing, accessing and using online courseware from Open Education Resources (OER) to enhance the quality of teaching and learning among Commonwealth universities.
Pedal Training	Attended and completed an online training on development of course content, media, ePortfolio, facilitation and assessment of online courses, offered by Pedagogy Leadership in Africa (Pedal) from 1 st to 20 th August 2020.

LEADERSHIP EXPERIENCE

Examinations Officer	Served as a Departmental Examinations and Timetabling Officer from 2014-2019, and now in an acting capacity.
Chair of Postgraduate Studies Committee	Current Chair of Departmental Postgraduate Studies Committee – Department of Educational Communication Technology and Curriculum Studies, Maseno University.
Senate Membership	Member of the Maseno University Senate, representing the School of Education since 2017.
Programme Co-ordinator	Served from 2013-2016 as the e-Campus Programme Coordinator for the School of Education, Maseno University.
SEPU Member (2004-2008)	Served for four (4) years as a member of the executive committee of School Equipment Production Unit (SEPU), a semi-autonomous agency under the Ministry of Education.
Examiner and Centre Organizer	<ul style="list-style-type: none"> • Was a Physics Examiner with the Kenya National Examinations Council (KNEC) for nine years from 1989 to 1997 • Served KNEC as an Assistant Centre Organizer during the marking exercise of National Examinations (1998 – 2002) • Internal Examiner for Master’s and doctoral dissertations and postgraduate diploma research projects since 2012. • Contracted as External Examiner of Master’s and PhD theses for the School of Education and Humanities, University of Witwatersrand, South Africa since 2015, and Rongo University.
Head of Department	<ul style="list-style-type: none"> • Served as Head of Science Department and Careers Master at Maranda High School, Siaya County, Kenya

- Held the post of Career Guide and Counsellor and Director of Studies at Moi Girls School, Nairobi, following appointment by the school's Board of Governors
- Served as Senior Teacher in Charge of Games, Sports and Societies, following appointment by the Teachers Service Commission (1998 – 2003)

PTA Executive
Committee
member (1998-
2002)

Served as a member of Parents and Teachers Association of Moi Girls School, Nairobi, representing teachers in the association

BOM Member

Member of the Board of Management of St Theresa's Girls, Secondary School, Kibuye

Chief Curriculum
Development
Officer (Oct. 2008
to March, 2010)

Served as Chief Curriculum Development Officer in Charge of Physics at the Kenya Institute of Curriculum Development. Some of the major outputs during my service to the Institute include the General Science Curriculum and Digitized content for secondary school Physics. I also participated in the Summative Evaluation of the national primary and secondary school Curriculum in Kenya in the year 2008. The report informed the recent curriculum reform in Kenya, culminating into the Competency Based Curriculum.

CONFERENCE AND WORKSHOPS

Conference
Participation
29th May to 2nd
June 2006

Facilitated the 6th SMASSE WECSA Regional Conference on "Enhancing Classroom Activities for Quality Teaching and Learning of Mathematics and Science in Africa" at Savanna Saly, Republic of Senegal from 29th May to 2nd June 2006.

26th to 30th May,
2008

Facilitated the 8th SMASSE WECSA Regional Conference on "Successful and Sustainable Development of SMASE-WECSA Association for Better Teaching and Learning in Mathematics and Science" held at KCCT, Nairobi, Republic of Kenya from 26th to 30th May, 2008.

28th to 30th April
2009

Presented a paper entitled "*Building the critical mass for technological development through enhancement of creativity and innovativeness in science education*" at "The First Kenyatta University Research Conference (Theme: Moving Research to Wealth Creation) held at Kenyatta University, Nairobi, Republic of Kenya from 28th to 30th April 2009.

PUBLICATIONS

Research Publications

1. Rabari, J. A.; Indoshi, C. F.; & Okwach, T. O. (2011). Correlates of divergent thinking among secondary school physics students. *International Research Journals*. 2(3), 982-996.
1. Rabari, J. A.; Indoshi, C. F.; & Okwach, T. O. (2011). Perceptions of physics students and teachers towards creativity. *International Journal of Current Research*. 33(6), 234-240.
3. Rabari, J. A.; Indoshi, C. F.; & Okwach, T. O. (2011). Differences in divergent thinking among secondary school physics students. *Journal of emerging trends in educational research and policy studies (JETERAPS)*. 2(4), 216-227.
4. Rabari, J. A.; Indoshi, C. F.; & Okwach, T. O. (2011). Status of creativity among secondary school physics students. *BRICS Journal of Educational Research*. 1 (3&4), 167-176.
5. Mukekhe, S. M.; Indoshi F. C. & Rabari, J. A. (2018). Methods to be emphasized in Physics Teacher Education for acquisition of pedagogic skills needed for inclusive instruction. *International Journal of Research and Innovation in Social Science*. Vol II, Issue IX. 9-14.
6. Mukekhe, S. M.; Indoshi F. C. & Rabari, J. A. (2018). Evaluation of objectives of physics teacher education in relation to pedagogic skills of student teachers in public universities in Kenya. *International Journal of Innovative Research and Advanced Studies*. Vol. 5, Issue 8.
7. Otiang'a, R. A.; Ayere, M. A. & Rabari, J. A. (2018). Teacher preparedness in the pedagogical integration of Information Communication Technology (ICT) in Chemistry among public secondary schools in Kisumu County, Kenya. *International Journal of Scientific Research and Innovative Technology*. Vol. 5, No 10; December, 2018.
8. Otiang'a, R. A.; Ayere, M. A. & Rabari, J. A. (2019). Influence of Integration of Information Communication Technology on Performance in Chemistry among Public Secondary Schools in Kisumu County, Kenya. *International Journal of Scientific Research and Innovative Technology*. Vol. 6 No. 1; January 2019
9. Ahono, S. M.; Lugendo, D. & Rabari, J. A. (2020) Approaches in Creative Writing Pedagogy in English in Upper Primary Classes in Vihiga County, Kenya. *International Journal of Scientific Research and Innovative Technology*. Vol. 3, No 6; May, 2020.
10. Kukali, A. N.; Kawasonga, M. & Rabari, J. (2019). Factors influencing principals' leadership for ICT integration in Public Secondary Schools Management in Bungoma County, Kenya. *Journal of information and knowledge management*. Vol 8. No. 6. 2-32.
11. Kukali, A. N.; Kawasonga, M. & Rabari, J. (2019). Impact of Principals' leadership for ICT Integration in Public Secondary Schools Management in Bungoma County, Kenya. In *Journal of information engineering and applications*. Vol 8. No. 5. 1-11.
12. Namuyenga, W. S. A.; Ayere, M. A. & Rabari, J. A. (2019). Extent of use of ASE-PDSI approach in teaching of science in primary schools in Emuhaya sub-ounty, Vihiga County, Kenya. *European Journal of Education Studies*. Vol. 6, Issue 7. 322-344.

Textbook Publications (all approved by the Ministry of Education for use in schools)

1. Rabari, J. A. (1996). *Foundation Physics*. Nairobi: Jomo Kenyatta Foundation.
 2. Rabari, J. A. (2001). *Foundation Physics Students Book. 1*. Nairobi: Jomo Kenyatta Foundation (Rated the best Physics book by the Book Evaluation Panel, with 147/150 pts).
 3. Rabari, J. A. (2002). *Foundation Physics Students Bk. 2*. Nairobi: Jomo Kenyatta Foundation.
 4. Rabari, J. A. (2003). *Foundation Physics Students Bk. 3*. Nairobi: Jomo Kenyatta Foundation.
 5. Rabari, J. A. (2004). *Foundation Physics Students Bk. 4*. Nairobi: Jomo Kenyatta Foundation.
 6. Rabari, J. A. (2001). *Foundation Physics Teachers Guide Bk.1*. Nairobi: Jomo Kenyatta Foundation.
 7. Rabari, J. A. (2002). *Foundation Physics Teachers Guide Bk. 2*. Nairobi: Jomo Kenyatta Foundation.
 8. Rabari, J. A. (2003). *Foundation Physics Teachers Guide Bk. 3*. Nairobi: Jomo Kenyatta Foundation.
 9. Rabari, J. A. (2004). *Foundation Physics Teachers Guide Bk. 4*. Nairobi: Jomo Kenyatta Foundation.
 10. Rabari, J. A. (2004). *Access KCSE Revision Physics*. Nairobi: Jomo Kenyatta Foundation.
 11. Rabari, J. A. & Wafubwa, C. (2004). *Access KCSE Revision Chemistry*. Nairobi: Jomo Kenyatta Foundation.
 12. Rabari, J. A. (2007). *Practicals in Physics*. Nairobi: Alpace Graphics and Publishers
 13. Rabari, J. A. (2007). *Physics Charts*. Nairobi: Jomo Kenyatta Foundation.
 14. Rabari, J. A. & Umar, B. (2015). *Physics for Rwandan High Schools Vol. 1-6*. Edited
 15. *Foundation Chemistry Bk. 1* for Jomo Kenyatta Foundation (2002)
 16. *Explore Chemistry Bk. 3* for Longman Kenya Ltd (2004)
- (Both titles were recommended by the Ministry of Education for use in schools)