

CURRICULUM VITAE

JAPHETH ODODA ORIGA

Contacts

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Profile Summary

Dr. Origa holds a PhD in Mathematics Education and has a rich experience in pedagogy of mathematics. A lecturer in mathematics Education and a researcher in the teaching and learning of mathematics at the University of Nairobi. Has long experience in coordination and supervision of teaching practice and a consultant in problems in teaching and learning mathematics. At the University of Nairobi, has contributed immensely in improving teaching standards through regular training of lecturers in pedagogy. Has served as a consultant for SUNNY Kenya, Association of African Universities, and Government of Southern Sudan, among others.

Education

- 1996-2000 Ph.D., Mathematics Education
The University of Nairobi
Thesis Title: *The Impact Of Constructivism on the Learning of Three-Dimensional Geometry Among Girls In Kenyan Secondary Schools*
- 1990-1992 Master in the Teaching of Mathematics
Concordia University, Quebec, Canada
Thesis Title: *Learning Difficulties Encountered in the Teaching and Learning of Linear Programming*
- 1980-1984 B.Ed (Science), Double Mathematics
University of Nairobi - Kenya

Professional Experience

- 1995 to Date Lecturer, Mathematics Education-Department of Educational Communication and Technology.

Diploma units taught:

TEC 014: Mathematics
TEC 015: Science

TEC 025: Research Methods

Undergraduate Units Taught

TCT 102: Instructional Methods
PSY 104: Educational Statistics
TEC 104: Child Development (6 to 9 years)
PSY 201: Educational Measurement and Evaluation
TEC 206: Mathematics for pre-school
ECT 218: Mathematics Methods
TEC 306: Methods of Teaching Mathematics
TCT 330: Instructional Methods (Mathematics)
TEC 406: Statistics for Educational Research

Postgraduate Units Taught

TPM 501: Advanced Educational Statistics
TEC 602: Learning in Early Childhood
TEC 605: Statistics for Research in Education

Theses and Projects Supervised

Ph.D Theses (In Progress)

Mutahi, D. M. *Effect of Students' Participation in Steeplechase Activities on Students' Performance in Mechanics in Selected Technical Institutions in Kenya*

Murunga, J. W. *Effects Of Teacher Assessment Practices on School Readiness of 4-5 Year Old Children in Public Early Childhood Development Centres In Likuyani Sub-County, Kenya.*

Mwanda, G. M. *Effect of Constructivist Method of Instruction on Learning Biology in Secondary Schools of Homa bay County, Kenya*

Nginya, M. *Impact of Stigma and Discrimination on the Right to Education of Children with Learning Disabilities in Kiambu County, Kenya.*

Thion'go, J.M. *Effects of practical work on students' performance in Chemistry in Public Secondary Schools in Kenya*

Ph.D Theses (Completed)

Muriithi, E. M. (2013). *Impact of Project Method on Learner's Academic Achievement in Physics in Provincial Public Secondary Schools in Kenya*

Ngaruiya, S. (2013). *Effects of Family Socio-Economic Status on Pre-School Children's Primary School Readiness in four districts in Kenya*

- Nzuki, P. K. (2012). *The Relationship between Perceived Quality Dimensions and Growth in Distance Education: The case of External degree programme of the University of*
- Bowa, O. (2008). *The Influence of Learner Support Services on Academic Performance of Distance Learners: the case of University of Nairobi External degree programme Nairobi*

M.Ed Projects (In Progress)

- Cheruiyot, B. *Effects of Descriptive Written Feedback on Achievement in Mathematics Bomet County, Kenya*
- Ng'an'ga, M. P. *Effects of Marking Schemes on the Consistency of Scoring School Based Examinations*

M.ed Projects (Completed)

- Agango, C. O. (2014) *Influence of Teaching Methods on Preschool Children's Achievement in Mathematics, in Nyang'oma Zone, Muhoroni District, Kenya*
- Omondi, A. (2014). *The Impact of Inquiry based Approach on Achievement in Mathematics among preschool children in Ngon'g Division, Kajiado County, Kenya*
- Ndegwa, M. K. (2014). *The Effects of Computer Tutor on Learning of Mathematics Concepts among Pre-School Children in Central Division of Laikipia County, Kenya*
- Were, M. O. (2013). *The Influence of Sibling Pesence on Language Acquisition of Young Children in Families in Rachuonyo District, Homa bay County*
- Odhambo, M. A. (2013). *The Effect of Instructional Media on Performance in Language Activity among Pre-School Children in Nyaharwa Zone, Siaya County*
- Omayio, J. K. (2013). *The Effect of Instructional Resources on Children's Number work Performance in Pre-Schools in Isbania Zone Migori County*
- Kamanda, M. N. (2012). *Effect of Strengthening Mathematics and Sciences in Secondary Education (SMASSE) Activities on the Performance of Mathematics in Machakos County, Kenya*
- Muthara, K.K. (2012). *Effect of free Primary Education on Children's Enrolment in Lower Primary Schools in Ngewa Zone Kiambu County*
- Onyango, P. O. (2012). *Influence of School Based Assessment on Performance in Primary Teacher Education Examination in Kenya*
- Njeru, E. K. (2012). *An Investigation of the Effectiveness of Rewards and Punishment in promoting Discipline in Preschools in Chogoria Zone, Maara District of Esatern Kenya*
- Gichuki, E. W. (2011). *Impact of Instructional Materials on the Learning of Number Value in Pre- Schools in Mathira District, Kenya*
- Kathurima, N. W. (2011). *Influence of Television Viewing on Pre-School Children's language Performance in Municipality Zone of Meru County*
- Musingo, G. G. (2011). *The Role of HIV/AIDS Phenomenological Disclosure in Enhancing Positive Living Among Teachers: A case of Kisumu Municipality*
- Dola, C. A. (2010). *Influence of Perceived Benefits of Male Circumcision on its Acceptance Among Luo High School Students in Kisumu City*

- Isanda, C. K. (2010). *Managerial Factors Influencing the Provision of Distance Education: The Case of School of Continuing and Distance Education, University of Nairobi*
- Kamau, B. (2010). *Impact of the pre-School programme on Mathematics performance in Lower Primary Schools of Makuyu Zone, Murang'a South district*
- Matheka, J. K. (2010). *Influence of Learner Support Services on Perception of Distance Learning Mode: The Case of Kenya Methodist University, Kenya*
- Miring'u, E. N. (2010). *Evaluation of the effectiveness of Preschool Curriculum in Promoting Environmental Conservation and Sustainability Ethics in Kiambaa District, Kenya*
- Njeru, J. M. (2010). *Impact of Instructional Resources on Pres-School Mathematics Performance: A Case Study of Muthambi Location, Mara District*
- Obieroteny, S. S. R. (2010). *A Study of the Copying Mechanisms Used by Pre-School Children After Abduction: A Case Study of Dandora Zone, Nairobi*
- Oundo. G. A. (2010). *Effects of English Language Proficiency on Academic Performance in Biology Examinations*
- Ruga, S. N. M. (2010). *Factors Influencing Percieved Provision of Learner Support Services in Distance Education: The Case of B.Ed (Arts) Programme of The University of Nairobi*
- Adega, A. M. (2009). *Influence of Reproductive Health Services on Adolescent Health-Seeking Behaviour: The Case of Obunga Slums, Kisumu*
- Gumbe. A. A. (2009). *Attitudes and Beliefs on Male Circumcision as a Prevention Method in Traditionally Circumcising Communities in Keumbu: A case Study of the Abagusii*
- Kiplagat, L. K. (2009). *Factors influencing the Performance of Small Holder Irrigation Schemes in Nyanza Province: A case of South West Kano, Nyando, Kenya*
- Obala, E. A. (2009). *Socio- Economic Factors Affecting Girls' Participation in Primary Education in Lower Nyakach Division - Nyando District*
- Miano, P. M. (2008). *The Relationship Between Performance in Mathematics and Physics At Kenya Certificate of Secondary Education in Kirinyaga District*
- Mohamud, S. I. (2008). *The Effect of Social Economic Variables on Students' Performance in Kenya Certificate Of Secondary Education (KCSE) Examination in Isiolo District*
- Oruon'go, P. N. (2008). *Transition rate of Girl Child from Primary to Secondary Schools: A case study of Suba West Divsion Migori District*

Job Experience and Responsibilities

- Associate Dean, School of Education (July 2009 to date)
- Acting Dean (October 26th - October 28th 2014)
- Acting Chairman, Department of Educational Communication and Technology (February 23rd 2008 – March 10th, 2008)
- Lecturer in Mathematics Education
- Supervision of PhD and Masters Students in Thesis and project work
- Co-ordination and Supervision of mathematics teacher trainees in teaching practice
- Teaching Mathematics for Business and Economics at Concordia University, Canada (1992)
- Teaching the following units at the University of Nairobi from 1993 (Post-graduate, undergraduate and diploma levels)
 - ✓ Advanced educational statistics (post graduates)
 - ✓ Educational measurement and evaluation (undergraduates)
 - ✓ Educational statistics (undergraduates)
 - ✓ Instructional methods (Mathematics)

- ✓ Mathematics in Early childhood and lower primary
- ✓ Measurement techniques
- ✓ Pedagogy of mathematics
- ✓ Research methods in Education
- Teaching Mathematics and Chemistry at Ngiya Girls High School (1984 – 1987)

Research Experience

- 2014 Teacher Management in Kenya: Challenges and Issues: A study commissioned by Kenya Secondary School Heads Association (KESHA), with Paul Odundo and Tom Odhiambo.
- 2008 Baseline Survey on Women and Children’s Rights and their ability to meet basic needs in Siaya district (Sponsored by Care International, Kenya), with Paul Odundo and Tom Odhiambo
- 2007 Massification of Higher Education: The Case of University of Nairobi, Kenya, A study commissioned by Association of African Universities (AAU), (with Obonyo Digolo, Paul Odundo and Isaiah Nyandega)
- 2001 A PhD research project entitled “The Impact of constructivism on the learning of geometry among girls in Kenya secondary schools”. DAAD sponsored study programme
- 1992 A Masters Research project entitled “The impact of constructivism on the teaching and learning of Geometry”. CIDA sponsored study programme

Journal and e-Journal Articles

- Muthoni, D. M., **Origa, J.O.**, Gunga, S. O. & Mutahi, I. W. (2013). Strategies Influencing Competence in soft skills Development Through Mathematics in Technical Institutions in Kenya. *International Journal of Innovative Research & Studies Vol. 2 No. 4, April, 2013*. ISSN 2319-9725. Published on line at <http://www.ijirs.com>
- Muchemi, A. K, Muthoni, D. M. Mutahi, I. W., Gunga, S. O. & **Origa, J. O.** (2013). The Implications of Collaborative Industrial Attachments for Kenya Vision 2030 Development Programmes. *African Journal of Education and Technology Volume 3 Number 1 (2013) 57-67, ISSN 2046- 6935 (Online)*. Published on line at <http://www.sachajournals.com>
- Muriithi, E. M., Odundo, P. A., **Origa, J.O.** & Gatumu, J. C. (2013). Project Method and Learner Achievement in Physics in Kenyan Secondary Schools. *International Journal of Education and Research Vol. 1 No. 7 July 2013, ISSN2201-6740*. Published on line at <http://www.ijern.com>
URL: www.ijer.org
- Gatumu, J. C., **Origa, J. O.** & Miringu, E. (2012). Kenya Preschool Curriculum on Environmental Conservation by young Children. *International Journal of Early Childhood Education & Care Vol. 1, 2012 pp 1-14*. ISSN 2289-3156

- Muthoni, D. M., Gunga, S. O., Mutahi, I. W. & **Origa, J. O.** (2013). *Influence of Industrial Attachment on the Competence of Instructors and Students in Enabling Creative Innovations for Industrialisation in Kenya. Msingi Journal* Volume 1, Number 1, ISSN: 231-3493
- Gatumu, J. C. & **Origa, J. O.** (2001). *Philosophical and Psychological Issues in Transition from Pre-school to Primary School. A Report on the National Workshop on Transition from Pre-School to Primary School* pp 40-45. *Kenya Institute of Education,*

In Press

- Digolo, O. O. & **Origa, J.O.** (2014). The Relationship Between Performance in Teaching Practice and Practical Subjects in the Kenyan Primary Teachers' Colleges. Maasai Mara University Conference (www.mmarau.ac.ke)
- Mwanda, G. M., **Origa, J.O.**, Digolo, P. O. Mwanda, S. O. (2014). Effect of Constructivist and Conventional Methods of Instruction on Learning Biology among Secondary School Students in Kenya. *The International Institute for Science, Technology and Education (IISTE)*
- Nzuki, P. K., Bowa, O., Gunga, S. O. & **Origa, J. O.** (2013). The Relationship Between Perceived Quality Dimensions and Growth in Distance Education DETA Conference Abstracts 2013: www.deta.up.ac.za

Accomplishments

- Started and managed module II programmes in the school of Education since 1998
- Managed Bachelor of education in Early childhood programme for 6 years
- Has co-ordinated teaching Practice for over 700 mathematics teacher trainees in the Department of Educational communication technology since 1994.
- Has supervised 4 PhDs and 10 masters theses since 2003

Conferences

- First Maasai Mara University Annual International Conference 2014: Knowledge Management for Transformation: Pitfalls, Synergy and Innovation. Narok, 11th November -14th November 2014
- DETA Conference 2013: Distance Education and Teachers' Training in Africa, Nairobi, July 2013

Workshops, and Seminars

- Pedagogy Training: Evaluation of Learners' Achievement. A training workshop for University of Nairobi academic staff from the College of Biological and Physical Sciences at Chiromo, 4th June - 6th June 2014
- Evaluation of learners' Achievement. A training workshop for University of Nairobi academic staff from the School of Pharmacy at the college of Health sciences held on 27th March 2013.

- Evaluation of learners' Achievement. A training workshop for University of Nairobi academic staff from the School of Biological Sciences at Chiromo on 13th February 2013.
- Writers workshop: Writing a module (Mathematics in Early Childhood) for B.Ed Early childhood, 22nd October to 27th October 2012
- ESAR Training Workshop on Education in Emergencies, Nairobi, 16th to 19th March, 2010.
- Policy and Institutional Framework on Basic Education and Early Childhood Education in Kenya: Challenges for the future. Workshop organized and sponsored by SUNNY Kenya at Simba lodge, Naivasha from 1st November to 5th November 2009
- Pedagogy Training: Test development and administration. A training workshop for KEPHIS staff. KEPHIS headquarters Nairobi, 13th November 2009
- Pedagogy Training: Test development and administration. A training workshop for University of Nairobi lecturers from the College of Agriculture and Veterinary Sciences on pedagogical skills at the Central Catering Unit, University of Nairobi from 4th - 6th February 2008.
- Pedagogy Training: Test development and administration. A training of Trainers workshop for University of Nairobi lecturers. Kenya wildlife training institute, Naivasha from 10th - 15th September 2007.
- Curriculum review for the School of education. A workshop at Kenya Utali Hotel, 4th and 5th may 2007, Nairobi
- Pedagogy Training: Test development and administration. A training workshop for University of Nairobi lecturers from faculty of Law at Kenya Utali College , 29th march 2007.
- Pedagogy Training: Test development and administration. Training workshop for Internal Examiners from University of Nairobi. Kenya College of Communication and Technology on 13th and 14th July 2006.
- Pedagogy Training: Test development and administration. A training workshop for University of Nairobi lecturers from faculty of arts at the Kenya school of Monetary Studies, January 2006.
- Early Childhood Education Workshop: Presented a paper entitled “philosophical and psychological issues in transition from pre-school to primary school”. Kenya institute of Education, Published in 2002.
- Regional seminar on Early Childhood Education organized by Kenya Institute of Education from 17th to 23rd February 2002 held at Mombasa Beach Hotel.
- National workshop on transition from pre-school to primary held at Kenya institute of Education on 5th April 2001

Presentations to Policy Makers

- “Policy gaps and Strategies of enhancing access to Early Childhood development and education in Kenya”. Peer review for the Institute of Policy Analysis and Research, August 2006
- “Policy and Institutional Framework on Basic Education and Early Childhood Education in Kenya: Challenges for the future”. SUNNY Kenya, Naivasha from 1st November to 5th November 2009

Consultancies

- 2014 UNES Consultancy in Somalia: Capacity Building for Ministry of Education Officials in Somalia Sponsored by the Centre for British Teachers
- 2014 Kenya Secondary School Heads Association. Teacher Management in Kenya: Challenges and Issues
- 2011 University of Juba and University of Nairobi Project: Training Consultant in World Bank Sponsored Pre-Service Training of Primary School Teachers and Capacity Building of Regional Teachers' Training Institutes (NTTIs) in Maridi South Sudan September 2010 to March 2011.
- 2009** *Co-Consultant:* SUNNY Kenya workshop for Parliamentary Select Committee on Education. “Policy and Institutional Framework on Basic Education and Early Childhood Education in Kenya: Challenges for the future”. November 2009
- 2007** *Co-Consultant:* Association of African Universities study on “Effects of Massification on higher in Africa: the case study of the University of Nairobi”. September 2007.
- 2008** *Co-Consultant:* Care Kenya study on “Assessment of the Status of Women’s and Children’s Rights and their ability to meet basic needs in Siaya district”. 2008

Referees

Prof. Patrick O.O. Digolo
Associate Dean, Kenya Science
University of Nairobi

Prof. Samson Gunga
Dean, School Of Education
University of Nairobi

Prof. Genevieve Wanjala
Department of educational Administration and Planning
University of Nairobi



Dr. J.O. Origa
06th November 2014