

Duncan Otieno Oganga.

 C/O Mathematics Department,
Masinde Muliro University of Science & Technology.
P. O. Box 190 - 50100, **KAKAMEGA-KENYA**. (CURRENT)

P. O. Box 48 - **KATITO-KENYA**. (PERMANENT)



 doganga@mmust.ac.ke or danotieno2002@yahoo.co.uk

Sex Male | Date of birth 26th October 1982 | Nationality Kenyan

WORK EXPERIENCE

Nov 2010 to Feb 2021

Assistant Lecturer in the Department of Mathematics of Masinde Muliro University of Science and Technology.

Feb 2021 to date

Lecturer in the Department of Mathematics of Masinde Muliro University of Science and Technology.

- (i) Teaching undergraduate courses Mathematics.
- (ii) Setting, moderating, marking and analyzing examination results.
- (iii) Departmental Bridging coordinator.
- (iv) Mentoring undergraduate students.
- (v) Departmental Examination coordinator.
- (vi) Supervising Mathematics Projects

July 2007 to Nov 2010

Graduate Assistant in the Department of Mathematics of Masinde Muliro University of Science and Technology

- (i) Teaching under the guidance of lecturers
- (ii) Setting, invigilating and marking examinations
- (iii) Preparing students' marksheets

Jan - June 2007

Teacher at Atemo High School – Rachuonyo

Aug - Nov 2006

Teacher at Cherwa High School – Nyakach

TRAINING
2014 to date

Pursuing PHD in Applied Mathematics at MMUST

- July 2007 - October 2010 Master of Science in Applied Mathematics, MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY
- Sept 2002- May 2006 Bachelor of Education (Arts) **1st Class Honours**, MOI UNIVERSITY
- 1996 – 2000 K.C.S.E Mean Grade: B (plain); Thur-gem Secondary School
- 1993 – 1996 Class 5 to 8, Aolo primary school
- 1990 – 1992 Class 3 to 5, Sio RC primary school
- 1988 – 1989 Class 1 to 2, Papolisana Primary School
- 1987 Nursery, Thur-gem Primary school

PERSONAL SKILLS

Mother tongue(s) Luo

Other language(s)

		UNDERSTANDING		SPEAKING		WRITING
		Listening	Reading	Spoken interaction	Spoken production	
English		Good	Good	Good	Good	Good
Kiswahili/Luo		Good	Good	Good	Good	Good

Communication skills ➤ Good communication skills gained through training and experience as teacher, preacher, counsellor and mentor.

Organisational / managerial skills (i) Leadership skills gained through responsibilities held

- Job-related skills
- (i) An effective lecturer.
 - (ii) Team player with strong interpersonal and analytical skills.
 - (iii) Ability to work in a highly competitive environment.
 - (iv) Multi-tasking.
 - (v) Ability to work in unfamiliar environment.
 - (vi) Fast learner and always open to criticisms and new ideas.

Computer skills ➤ Competent in several Microsoft Office programmes

Driving licence Driving Licence Number C 1712172 for Classes B, C & E

Publications 1. **Duncan O. Oganga**, Michael O. Okoya, Shem O. Aywa, George O Lawi and Joyce K. Nthiiri (2014). Finite difference solution of the third order viscous wave equation.

- International Journal of Engineering, Science and Mathematics*. Vol 3 Issue 4 pgs 56-65 ISSN 2320-0294
2. Rodgers K. Adenyah, Michael O. Okoya, Shem O. Aywa, **Duncan O. Oganga** (2015). Mixed Galerkin finite element solution of the homogeneous Bergers equation. *International Journal of Engineering and Scientific Research*. Vol 3 Issue 2 pgs 37-54 ISSN 2347-6532
 3. Rodgers K. Adenyah, Kiema D. Wambua, Barasa S. Joel, **Duncan O. Oganga** (2015). Effect of a forcing term on Solution of a homogeneous Bergers equation. *International Journal of Engineering and Scientific Research*. Vol 3 Issue 3 pgs 58-68 ISSN 2347-6532
 4. **D.O. Oganga**, G.O Lawi, C.O. Okaka (2019) Stability Analysis of the Endemic Equilibrium of an Ebola Disease Model. *Applied Mathematical Sciences*, Vol. 13, 2019, no. 21, 1001 – 1012 HIKARI Ltd. doi.org/10.12988/ams.2019.98119
 5. **D.O. Oganga**, G.O Lawi, C.O. Okaka (2020) Analysis of a Multiscale Model of Ebola Virus Disease. *Asian Research Journal of Mathematics*, 16(6): 53-69, 2020; Article no.ARJOM.56387. doi: 10.9734/ARJOM/2020/v16i630197. ISSN: 2456-477X
 6. **D.O. Oganga** (2020) Mathematical Analysis of a Within Host Ebola Disease Model. *Applied Mathematical Sciences*, Vol. 14, 2020, no. 9, 433 - 448 HIKARI Ltd. doi.org/10.12988/ams.2020.914218

Annexes

PhD. Research Thesis Title: Duncan O. Oganga. (2021). Multiscale modelling of Ebola transmission dynamics

MSc. Research Thesis Title: Duncan O. Oganga. (2010). Solution of the third order viscous soundwave equation using finite difference method.

Conferences,
Seminars &
Workshops

- (i) **3rd-4th July 2019:** Biophysics Workshop (*Exploring Biophysics Diversity for Sustainable Industrial and Economic Development*), Bishop Stam Pastoral Centre, Kakamega
- (ii) **22nd Aug 2018-** Transition, Change and Impact Awareness training for Implementors (Based on ISO 9001:2015) at MMUST
- (iii) **12th -16th June 2017-** Second Kenyatta University Workshop on Mathematical Modeling at Kenyatta University
- (iv) **6th -9th July 2016:** Practical training on Statistical Packages R and Stata
- (v) **24th June 2014:** Curriculum Development, Review and Implementation
- (vi) **23rd - 24th January 2014:** University Multiplication Training Workshop on Curriculum Development and Review for Public Universities in Kenya
- (vii) **23rd - 27th July 2012:** First Strathmore University International Mathematics Conference, 2012; Strathmore University.
- (viii) **3rd -6th July 2012:** AIDS Control Unit training workshop at Busia Farmers Training Institute in Busia.
- (ix) **8th -10th July 2011:** First Kenyatta University International Mathematics Conference, 2011; Kenyatta University – KUCC. (*Presented a paper*)
Theme: “Role of Mathematics as a tool for Development”.
- (x) **12th -16th April 2010:** International Workshop organized by Mathematics and Computer Kenya Network (MACKNET); held at Maseno University.

Theme: Teaching Mathematics using simplified computer aided techniques/skills.

- (xi) **7th January 2010:** Fourth University Academic Staff induction workshop organized by Masinde Muliro University of Science & Technology, MCU.
Areas trained in: Rules and Regulations governing University Examinations
- (xii) **8th January 2009:** Third University Academic Staff workshop organized by Masinde Muliro University of Science & Technology, MCU.
Areas trained in: The role of incorporating Information and Technology in effective curriculum delivery.
- (xiii) **15th August 2008:** Second University Academic Staff Seminar on Curriculum Review organized by Masinde Muliro University of Science & Technology.
Areas trained in:
- Curriculum review in line with market driven demands.
 - Components of performance contracting, Staff development & Self-evaluation.

ADDITIONAL INFORMATION

Community Service and Mentorship program

- (i) **2013 – Present:** Pastor at Kings Outreach Church in Kakamega
- (ii) **2013 – Present:** Patron- Repentance and Holiness Students Fellowship in MMUST

Interests and Hobbies

- (i) Reading scientific articles
(ii) Research work in Mathematical modelling
(iii) Preaching The Word of God
(iv) Travelling
(v) Listening to worship.

Referees

1. Dr. George O. Lawi,
Department of Mathematics ,
Masinde Muliro University of Science & Technology.
P.O. Box 190 - 50100, KAKAMEGA, KENYA.

Mobile: +254722292635. E mail: golawi@yahoo.com or golawi@mmust.ac.ke

2. Dr. Colleta O. Okaka,
Department of Mathematics ,
Masinde Muliro University of Science & Technology.
P.O. Box 190 - 50100, KAKAMEGA, KENYA.

Mobile: +254722340628. E mail: letticol@yahoo.com or cokaka@mmust.ac.ke

3. Dr. Joyce N. Nthiiri Lawi, Head of Department (Mathematics),
Masinde Muliro University of Science & Technology.
P.O. Box 190 - 50100, KAKAMEGA, KENYA.

Mobile: +254721871429. E mail: jnthiiri@mmust.ac.ke

CERTIFICATION

I, Duncan Otieno Oganga, do certify that to the best of my knowledge and belief, this information is correct.

Sign: -----

Date: -----