

CURRICULUM VITAE

DR. MARITIM KIPRONO SIMEON

PHD.(UOE), MSC.(KU), BED.(KU) DIP. ED.(KSTC), HSC.

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BOMET

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PERSONAL DATA

NAME : Maritim Kiprono Simeon

DATE OF BIRTH : 30th December 1961

PLACE OF BIRTH : Bomet, Kenya

NATIONALITY : Kenyan

IDENTITY CARD : 5297369

GENDER : Male

NATIONALITY : Kenyan

RELIGION : Christian

MARITAL STATUS : Married

LANGUAGES : English, Kiswahili And Kipsigis

CURRENT POSITION.

HEAD OF DEPARTMENT : Department Of Agriculture and Natural Resources,
School Of
Pure And Applied Sciences

CHAIR BOARD OF

MANAGEMENT : Kapoleseroi Sec School.

PATRON : Simbeiwet Junior School.

PATRON : Mara Siongiroi Shinnars Academy.

PATRON : Repentance and Holiness Students
Fellowship Bomet University College.

CHURCH LEADERSHIP : Overseer Repentance And Holiness Church,
Olbutyo Sigor Region.

MEMBER BOM : Kaptwolo Sec School.

FORMER ADMINISTRATIVE POSITIONS

HEAD OF DEPARTMENT: Department Of Mathematics and Computer Science.

PRINCIPAL : Principal Kapoleseroi Sec. School

DIRECTOR : Mara Siongiroi Senior Academy

DIRECTOR : Mara Siongiroi Academy

CHAIR BOARD OF MANAGEMENT

: Chairman Board Of Management Bingwa Sec. School

MEMBER BOARD OF MANAGEMENT

: Member Board Of Management
Sigor Boarding Comprehensive School

PERSONAL STATEMENT

I am an inspirational mathematics researcher offering over thirty years' experience in teaching, administrative and initiatives to promote students success and achievement. Shows leadership experience having served many/several students across multiple institutions, coupled with profound expertise in the development, implementation, evaluation and continuous improvement of challenging educational situations and inspiring curricula. I am a passionate education advocate, successful in teaching, research and evaluation of students.

A firm hands on and results oriented transformative leader, practicing professionalism, team work and team spirit both institutionally and in the community service. Currently, serving as the Head of Department of Agriculture and Natural Resources. Holds a PhD and Masters in Applied Mathematics and I have a total of nine publications in the following publishers, World Journal of Engineering Research and Technology, International Journal of scientific & Engineering Research, Global journal of Mathematics and Statistics Research and Asian Research of Mathematics and Statistics. I have supervised two students at Jomo Kenyatta University of Agriculture and Technology to completion and the other two one Masters and one PhD are at the final stage of completion

EDUCATIONAL BACKGROUND

2010 – 2019 : PhD (Mathematics) at University of Eldoret

Option taken : Applied Mathematics

Thesis Title : Hybrid Hopscotch Method for solving two dimensional system of Burgers

2007 – 2009 : Equation; Supervised by Prof Bitok, Prof Joel Tonui & Dr. Victor Kimeli
M.Sc(Mathematics) at Kenyatta University

Option taken : Applied Mathematics

Thesis taken : Comparison of 2 and 3-level Crank-Nicholson Based method on
solution of Heat

1999-2003 : Equation; Supervised by Dr. Alfred Koros and Dr. Francis K. Gatheri
B.ED (Science) at Kenyatta University (Mathematics and Physics)

1994- 1996 : Diploma in Education (Science) at Kenya Science Teachers college
(Mathematics and Physics)

1991&1993 : Private KCSE candidate (Grade C+ & B- respectively)

1985 – 1986 : Litein High school Grade two subsidiaries

1981 – 1984 : Mawego Technical School Grade O' level, Division II, 31 points

1974-1980 : Kapoleseroi Primary school CPE, 35/36 points

HONOURS AND AWARDS

20th October, 2020 : Received Head of State Commendation (HSC) award during the
Mashujaa day celebration, the year 2020. Honored for efforts in promoting
education initiatives, involvement in other development programs
and peace initiatives in Bomet County

ACADEMIC AND PROFESSIONAL CAREER

29th April 2025 : Appointed as Head of Department of Agriculture and Natural
Resources.

14th March 2025 : Presented a Paper in the 4th BUC Annual international Conference.

19th Feb 2025 : Appointed as Head of Department of Mathematics and Computer
Science.

31st March 2022 : Participated in the Research and Publication workshop in Bomet
University College.

14th July 2021 : Participated in the 1st Bomet University College Annual international
Conference.

25th Jan 2021-to Date : Lecturer Bomet University College School of Pure and Applied
Sciences.

2017-2020 : Part-time lecturer Bomet University College.

Lectured and examined students at the School of Education on:
(i)Vector analysis,
(ii)Linear Algebra I,
(iii) Ordinary Differential Equation I,

		(iv) Basic Mathematics and Analytic Geometry, (v) Calculus, (vi) Complex Analysis I, (vii) Numerical Methods.
2009 -2017	:	Part -time lecturer, University of Kabianga.
		Lectured and examined students at the School of Science and Technology on:
		(i) Linear algebra, (ii) Numerical Analysis, (iii) Fluid Mechanics, (iv) Vector Analysis, (v) Dynamics, (vi) Calculus (vii) Ordinary Differential Equation I
2008 – 2011	:	Senior graduate teacher Job group 'M' at Kapoleseroi Secondary School
		Taught Mathematics and Physics.
2003 – 2008	:	Approved teacher status I job group 'L' at Kapoleseroi Secondary school.
		Taught Mathematics and Physics
1999-2003	:	Approved teacher status II job group 'K' at Kapoleseroi Secondary school.
		Taught Mathematics and Physics
1997-1999	:	Diploma trained teacher job group 'J' at Kapoleseroi Secondary school
		Taught Mathematics and Physics
1991-1994	:	Untrained TSC teacher at Kapoleseroi Secondary school
		Taught Mathematics and Physics
1987-1991	:	Untrained TSC teacher at Mengwet Primary school
		Taught Science, Mathematics and Art & Craft

ACHIEVEMENTS AS UNTRAINED TEACHER AT MENGWET PRIMARY SCHOOL (1987-1991)

- Many pupils excelled in Mathematics.
- Introduced Art and Craft having been in a technical school at 'O' level.
- Many pupils got technical skills needed for masonry, carpentry and plumbing.
- Started guidance and counseling sessions where pupils were encouraged to pursue education to higher levels.

ACHIEVEMENTS AS UNTRAINED TEACHER AT KAPOLESEROI SECONDARY SCHOOL (1991-

1994)

- The student population increased from 18 to 80.
- Got an opportunity to have linkages with performing schools. The student performance improved.
- Encouraged parents who could not afford to pay school fees to pay in kind. The student population increased.

ACHIEVEMENTS AS DEPUTY PRINCIPAL KAPOLESEROI SECONDARY SCHOOL (1998-2007)

- Students discipline generally improved
- Academic performance in KCSE improved.
- Managed to fundraise to support the needy students.
- Locally fundraised for completion of form three classroom construction.
- Encouraged parents who could not afford to pay school fees to pay in kind. Consequently the student population increased.

ACHIEVEMENTS AS DIRECTOR OF MARA/IMARA SCHOOLS (2012-2020)

- Voluntarily retired from TSC because of passion to promote Education initiatives.
- Became a director of Mara/Imara schools
- Initiated programs to support the orphans and the needy in the school and other schools.
- Supported development of educational infrastructure in schools within the community.
- Boosted competition among the schools both the public and private.
- Created employment opportunities for the locals.
- Enhanced business opportunities within and without the community.

ACHIEVEMENTS AS A BOM CHAIR BINGWA SECONDARY SCHOOL (2016-2018)

- Promoted learning exposure tours in the school.
- Provided laboratory equipment and chemicals using own resources.
- Sponsored orphans in the school.
- Sponsored the construction of a permanent school library.
- As a results of these infrastructural development and initiatives, the school's academic performance went up. The school realized the first ever student to qualify for University admission through KUCCPS.

PUBLICATIONS

1. **Maritim, S.K.** and Rotich, J.K(2019). Hybrid Hopscotch Method for Solving Two Dimensional System of Burgers' Equation. *International Journal of Science and Research (IJSR)*, 8(8), 492-497
2. **Maritim, S.K.** (2019).Modified Crank-Nicholson Based Methods on the solution of I-D Heat Equation. *Nonlinear Analysis and Differential Equations-Hikari*, 7(1), 33-37.
<https://doi.org/10.12988nade.2019.4920>

3. **Maritim, S.K.,** Rotich J.K., Bitok J.K., Tonui J.K, & Kimeli V.K(2018). Hopscotch- Crank-Nicholson-Lax Fredrick (HP-CN-LF) Hybrid Method for solving two dimensional system of Burgers' equation. *World Journal of Engineering Research and Technology WJERT*, 4(5),422-432
4. **Maritim, S.K.,** Rotich J.K., and Bitok J.K.(2018). Hybrid Hopscotch Crank-Nicholson-Du Fort and Frankel (HP-CN-DF) Method for solving Two Dimensional System of Burgers' Equation. *Applied Mathematical Sciences*.
[https://doi.org/10.12988/ams.2018.8798,12\(19\), 935-949](https://doi.org/10.12988/ams.2018.8798,12(19), 935-949).
5. John K. Rotich, **Simeon K. Maritim**, Jacob K. Bitok (2014). Crank-Nicholson-Lax-Friedrich's Finite Difference Schemes Arising from Operator Splitting for 2-Dimensional Heat Equation" *International Journal of scientific & Technology Research IJSTR*, 3(11), 303-306.
6. John K. Rotich, Jacob K. Bitok, **Simeon K. Maritim**, Kirui Wesley (2014). Crank-Nicholson-Du Fort and Frankel-Lax-Fredrich's Hybrid Finite Difference Scheme Arising from Operator Splitting for solving 2-Dimensional Heat Equation. *International Journal of scientific & Engineering Research IJSER*, 5(10),931-934
7. Divinah K. Moogi, Johana K.Sigey,Jeconiah A.Okelo,Simeon K.Maritim (2022).Analysis of Forced Convection on an incompressible Fluid flow in a Rectangular enclosure. *Volume 11 Issue 4, April 2022* www.ijser.net
8. Samson Odhiambo Juma, Johana K.Sigey,Jeconiah A.Okelo,Simeon K.Maritim(2023).Effects of an Inclined Centred Conductor on MHD Natural and Forced Convection within a Heated Wavy Chamber (2023). *Asian Research journal of Mathematics* ,19(12),pg: 9-12.
9. Samson Odhiambo Juma ,Simeon Kiprono Maritim (2025). Numerical Analysis of the Effects of Flow parameter on Magneto-convective Flow Past an Inclined Conductor.
<https://bluemarkpublishers.com/index.php/GJME/article/view/295/262>
10. Motari Cyrus,Johana K. Sigey, Moffat C. Nyaboe, Simeon K. Maritim(2025).Numerical Determination and Analysis of Magnetohydrodynamic Mixed Convection in A Rectangular Enclosure with Heating and Cooling
https://www.ijrdet.com/files/Volume14Issue12/IJRDET_1225_80.pdf

HOBBIES

Reading educative literature, listening to Christian literature and athletics.

REFEREES

1. Prof.Johana Kibet Sigeti.
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Kenya

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3. Dr. John K. Rotich University Of Kabianga
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