

CURRICULUM VITAE

PERSONAL DETAILS

NAME: Dr. SAMUEL BONG'ANG'A APIMA, PhD
ADDRESS: P.O. BOX 385-50309 Kaimosi, Kenya
TELEPHONE: +254 714 295 941/ +254 707 601 556
EMAIL: apimabs@gmail.com/ sapima@kafuco.ac.ke
NATIONALITY : Kenyan
ID NUMBER : 26686613
KRA PIN NUMBER : A0062666990
DATE OF BIRTH : 3rd July, 1989
SEX : Male
MARITAL STATUS : Married
RELIGION : Christian



CAREER OBJECTIVE

To become an accomplished scholar and trainer in the field of Mathematics; exploring its practical applications in various fields through research.

CAREER SUMMARY

November 2021 – Present: **Lecturer**, Department of Mathematics and Statistics, Kaimosi Friends University College (KAFUCO)

Key Responsibilities:

- Teaching, examining and supervising postgraduate students in mathematics.
- Teaching and examining undergraduate students in mathematics.
- Administering, supervising and marking examinations and continuous assessment tests.
- **Class advisor** for BSc. Mathematics with I.T. and BSc. Mathematics and Economics with I.T.
- Advising students on academic matters.

September 2017 – October 2021: **Tutorial Fellow**, Department of Mathematics and Statistics, Kaimosi Friends University College (KAFUCO)

Key Responsibilities:

- Teaching and examining undergraduate students in mathematics.
- Administering, supervising and marking examinations and continuous assessment tests.
- **Class advisor** for BSc. Mathematics with I.T. and BSc. Mathematics and Economics with I.T.
- Advising students on academic matters.

January 2017 – August 2017: **Part-time Mathematics Lecturer**, Kaimosi Friends University College (KAFUCO)

Key Responsibilities:

- Teaching and examining undergraduate students in mathematics.
- Administering, supervising and marking examinations and continuous assessment tests.

2014 – 2018: **Part-time Mathematics Lecturer**, Masinde Muliro University Science and Technology

Key Responsibilities:

- Teaching and examining undergraduate students in mathematics.
- Administering, supervising and marking examinations and continuous assessment tests.

2014 – 2017: **Part-time Mathematics Lecturer**, Kibabii University

Key Responsibilities:

- Teaching and examining undergraduate students in mathematics.
- Administering, supervising and marking examinations and continuous assessment tests.

September 2011-Present : **Freelance Work**

- ✓ Providing Mathematics and Statistical Tutorials
- ✓ ICT consultancy on Mathematical and Statistical Softwares (Matlab, Mathematica, LaTeX,) and

Microsoft office packages (MS Word, MS Excel, MS PowerPoint)

January 2011 - August 2011 : **B.O.G. Teacher**, Motagara Girls High School

Key Responsibilities:

- ✓ Teaching Mathematics and Computer Studies
- ✓ Class Teacher Form 2

Administration and responsibilities

November 2021 – Present: **Chair of Department (CoD)**, & October 2017 –October 2021: **Coordinator of Department (CoD)**, Department of Mathematics and Statistics, KAFUCO

Key Responsibilities:

- Articulating and implementing the mission and objectives of the department
- Convening and chairing departmental board meetings
- Represent the department in the School board, University college Academic board and other boards of the University College as required
- Promoting and maintaining a conducive working environment within the department
- Planning and Budgeting for the department
- Preparing departmental reports
- Overseeing examinations as chief examiner in the department
- Managing academic programmes in the department as required by Senate and University college Academic board
- Supervising and Appraising the performance of academic and other staff in the department
- Making recommendations with respect to discipline, probation, advancement, and promotion of academic staff within the department
- Maintaining asset registers for the department
- Advising students on academic matters.

21st April 2021 – 18th May 2021 & 20th May 2021 – 24th June 2021: **Acting Dean**, School of Science, KAFUCO

Key Responsibilities:

- Convening and chairing regular school board meetings.
- Articulating a leadership vision and strategic plan for evaluating the academic programs and curriculum with the program committees, faculty, staff and students
- Providing oversight and support for national wide student recruitment and retention activities
- Providing leadership in development, implementation and review of school academic programmes
- Managing teaching and learning resources in the school
- Supervising overall teaching, learning and examinations in the school
- Providing leadership in research, innovation and community outreach programs
- Providing mentorship and advisement to faculty
- Processing students for graduation
- Preparing and submitting school budget for approval by University College Management Board
- Representing the school on University College Academic Board, Senate, Deans Committee and other boards of the University College as required

Maintaining asset registers for the school

EDUCATION BACKGROUND

Institution: Masinde Muliro University of Science and Technology (MMUST)
Certificate: **Doctor of Philosophy in Applied Mathematics** **Date:** 2014 – 2020
Thesis topic: *A predator-prey model with logistic growth for constant and density-dependent delayed migration*

Institution: Masinde Muliro University of Science and Technology (MMUST)
Certificate: **Masters of Science in Applied Mathematics** **Date:** 2011 – 2014
Thesis topic: *A predator-prey model incorporating delay in migration*

Institution: University of Eastern Africa, Baraton (UEAB)
Certificate: **BSc. Mathematics (Major) and Computer Science (Minor)**
Date: 2007 – 2010 **Grade:** Second Class, Upper division

Institution: Kamagambo High School **Date:** 2003 – 2006
Certificate: Kenya Certificate of Secondary Education (KCSE) **Grade:** B-

Institution: Riomego Primary School **Date:** 1995 – 2002
Certificate: Kenya Certificate of Primary Education (KCPE) **Grade:** A –

PUBLICATIONS IN REFEREED JOURNAL

1. **Samuel B. Apima** and Jacinta M. Mutwiwa (2020) **An SEIQR mathematical model for the spread of COVID-19**. Journal of Advances in Mathematics and Computer Science, 35(6), 35-41, ISSN: 2456-9968.
2. **Apima B. Samuel**, (2020). **A Predator-Prey Model with Logistic Growth for Constant Delayed Migration**. Journal of Advances in Mathematics and Computer Science, 35(3), 51-61, ISSN: 2456-9968.
3. **Samuel A.B.**, George L.O., and Kagendo N.J., (2019) **Rosenzweig-MacAurther Model with Holling type II Predator Functional Response for Constant Delayed Migration**. Asian Research Journal of Mathematics, 15(1)1-14, ISSN: 2456-477X.
4. **Apima S.B.**, Lawi G.O., and Kagendo N.J., (2019) **Density Dependent Delayed Migration for Rosenzweig-MacAurther Model with Holling Type II Predator Functional Response**. Asian Research Journal of Mathematics, 15(3)1-12, ISSN: 2456-477X.
5. Mabwago, A., George, L., **Samuel, A.**, and Otieno, J., (2019) **Modelling delay in migration for constant predator and predator-density-dependent prey migration**. Journal of Advances in Mathematics and Computer Science, 33(6), 1-11, ISSN: 2456-9968.
6. Wasike A.M., **Bong'ang'a A.S.**, Lawi G.O., Nyukuri M.O., (2014) **A Predator-Prey Model with a Time Lag in the Migration** Applied Mathematical Science Vol. 8 No. 75: 3721-3732

Conference Paper

- Samuel B. Apima and Jacinta M. Mutwiwa (2019) **A seir model for the spread of influenza**, Kibabii University 4th International Conference, 12th – 14th June, 2019, Kibabii University, Bungoma, Kenya

WORKSHOPS, CONFERENCES & SEMINARS ATTENDED

- ❖ Exploring Biophysics Diversity for Sustainable Industrial and Economic Development, 3rd – 4th July, 2019, Masinde Muliro University of Science and Technology, Kakamega, Kenya

- ❖ Kibabii University 4th International Conference, 12th – 14th June, 2019, Kibabii University, Bungoma, Kenya
- ❖ 2nd Research Capacity Building Seminar on Grant Proposal Writing, 7th February, 2019, Kaimosi Friends University College, Vihiga, Kenya
- ❖ Odel Training Workshop, 23rd – 28th May, 2018, Kaimosi Friends University College, Vihiga, Kenya
- ❖ CIMPA School Kenya, Mathematical Modeling and Analysis of Complex Systems, 20th to 31st July, 2015, Lake Naivasha Panorama Park, Naivasha, Kenya.
- ❖ First Kenyatta University Workshop on Mathematical Modeling, 17th – 21st June, 2013, Kenyatta University, Nairobi, Kenya

PRESENTATIONS

1. Exploring Biophysics Diversity for Sustainable Industrial and Economic Development, 3rd – 4th July, 2019, Masinde Muliro University of Science and Technology, Kakamega, Kenya
 - a. Apima B.S, Lawi G.O., Kagendo J.N, Oganga D.O, Mobisa B, Mawakat H
Topic: A Predator-Prey Model with logistic growth for constant delayed migration
 - b. Mawakat H, Lawi G.O., Akinyi C.O. Oganga D.O, Mobisa B, Apima B.S
Topic: Dynamics of a fishery model with Allee effects in population growth
Mobisa B, Lawi G.O., Kagendo J.N, Oganga D.O, Apima B.S, Mawakat H
 - c. Topic: Modelling in Vivo HIV dynamics under combined antiretroviral treatment
2. Apima B. Samuel and Jacinta M. Mutwiwa. Kibabii University 4th International Conference, 12th – 14th June, 2019, Kibabii University, Bungoma, Kenya Topic: An SEIR Model for the spread of Influenza

Supervision

1. Christine Wakwabubi– **Rotavirus Infection Model with Delayed Vaccination and Treatment**, Kibabii University (ongoing, 2021-Present)
2. Isaac Barasa - **Mathematical modelling of alcoholism incorporating awareness as a treatment strategy**, Kaimosi Friends University College (ongoing, 2022-Present)
3. Celestine Muchika – **Mathematical modelling of alcoholism incorporating awareness as a treatment strategy**, Kaimosi Friends University College (ongoing, 2022-Present)

OTHER RESPONSIBILITIES

- ✓ E-Learning Champion, School of Science Kafuco, April 2020 - date
- ✓ Chairman, inspection and acceptance AD HOC committee for the removal of asbestos lot I-IV, 2019, KAFUCO
- ✓ Member, Fifth KAFUSO electoral Commission, 2019, KAFUCO
- ✓ Member, Student Disciplinary appeals committee, 2019, KAFUCO
- ✓ Member, Student Disciplinary appeals committee, 2018, KAFUCO
- ✓ Member, Inspection and acceptance AD HOC committee for proposed supply, delivery and installation of KVA standby generator, 2019, KAFUCO
- ✓ Presiding Officer, Independent Electoral and Boundaries Commission, West Mugirango Constituency, Kiang'inda BED primary polling station II, 8th August, 2017

COMMUNITY SERVICE

- ✓ First Church Elder, KAFUCO SDA, 2021-Present
- ✓ Facilitator, Tente SDA Youth Camp, 28th December 2020 to 2nd January 2021, Tente SDA church, Nyamira County, Kenya

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Email: apimabs@gmail.com/sapima@kafuco.ac.ke

Telephone: +254 714 295 941/ +254 707 601 556

- ✓ Patron, KAFUCO SDA, 2018-2021
- ✓ Patron, KAFUCO Wildlife Club, 2019
- ✓ Church Assistant Youth Leader, Tente SDA Church, 2017
- ✓ Organised, participated and presented at the Tente SDA Ambassadors' camporee, December 2016, Tente SDA church, Nyamira County, Kenya
- ✓ Organised and participated at the Tente SDA Youth Camp-out, 10th April to 17th April 2011, Tente SDA church, Nyamira County, Kenya

KEY I.T SKILLS

- ✓ Mathematical and Statistical Softwares (Matlab, Mathematica, LaTeX)
- ✓ Microsoft office packages (MS Word, MS Excel, MS PowerPoint)

REFEREES

Prof. George Lawi

Associate Professor, Department of Mathematics - MMUST
P.O. Box 190, Kakamega
Mobile Phone: +254-722-292 635, e-mail: glawi@mmust.ac.ke

Dr. George Opande

Dean, School of Science
Senior Lecturer, Department of Biological and Agricultural Sciences - KAFUCO
P.O. Box 385-50309, Kaimosi
Mobile Phone: +254-728-317 456, e-mail: gopande@kafuco.ac.ke