### CURRICULUM VITAE

PERSONAL DETAILS	
NAME:	Dr. Patrick Mwangi Kimani
SEX:	Male
NATIONALITY:	Kenyan
<b>PERMANENT ADDERESS:</b>	P.O Box 190-10201 Kahuro
E-MAIL ADDRESS:	patkim32@gmail.com

### **CAREER OBJECTIVE**

To serve in any organization with the aim of applying acquired knowledge, be able to share with workmates both junior and senior the acquired knowledge to improve the quality of work in the modern globalization and help the organization reach its objectives and mission.

### **EDUCATION BACKGROUND**

Sep 2015 July 2019: PhD in Pure Mathematics, Kenyatta University

2012-July 2014: Masters of Science (Pure Mathematics), Kenyatta University

2007-2012: Bachelor of Education (Science); First Class Honours, Kenyatta University

2002-2005: Kangema High School, K.C.S.E. (B+)

1991-2001: Matharite Primary School, K.C.P.E (350 out of 500 marks)

### PUBLICATIONS

- 1. Kimani P., Rimberia J., Muthoka G. and Lao H. (2014). Application of Marks to Computation of Ranks and Subdegrees of the Symmetric Group Acting on Ordered Pairs and on Ordered Triples. *Journal of Mathematical Theory and Modeling* **4**:95-102
- **2.** Muthoka G., Kamuti I., Lao H., and Kimani P. (2015) Cycle Index Formulas for Dn Acting on Unordered Pairs. *Journal of Mathematical Theory and Modeling*. **5**: 16-22.
- Kimani P., Rimberia J., Muthoka G. and Lao H. (2015). Application of Marks to Computation of Ranks and Subdegrees of the Symmetric Group Acting on Ordered 4element and on Ordered 5-element subsets. *Journal of Mathematical Theory and Modeling*. 5: 17-24.
- **4.** Lao H., Kivunge B., Kimani P. and Muthoka G. (2015). Enumeration Cyclic Codes Over GF(17). *Journal of Scientific Research and Innovative Technology*. **2**: 103-111.
- Kimani J.G., Kinyanjui J.N., Rimberia j., Kimani P. and Muchemi J.K. (2015) Transitivity Action of An (n=4,5,6,7) on Ordered and Unordered Quadruples. *Journal of Mathematical Theory and Modeling* 5: 111-123.

- 6. Muthoka G., Kamuti I., Kimani P., and Lao H. (2015) Cycle Index Formulas for Dn Acting on ordered Pairs. *International Journal of Science and Research*. **5**: 1980-1983..
- 7. Lao H., Kivunge B., Kimani P. and Muthoka G. (2018). On the Number of Cyclotomic Cosets and Cyclic Codes over  $\mathbb{Z}_{13}$  International Journal of Scientific Research and Innovative Technology. 5(6): 58-68.
- 8. Kimani P., Kamuti I. and Rimberia J. (2019). Cycle Index Formula for G = PSL(2, q) Acting on the Cosets of H = PSL(2, e), where q is an even power of e International Journal of Scientific Research and Innovative Technology. 6: 1-10.
- Kimani P., Kamuti I. and Rimberia J. Rank and Subdegrees of PGL(2, q) Acting Cosets of PGL(2, e) for q an Even Power of e. International Journal of Algebra. 13: 29-36.
- Siahi M. Kimani P. and Kamuti I. Ranks, Subdegrees and Suborbital graphs of the product action of Affine groups. *Journal of Advances in Mathematics*. 19: 2347-1921. <u>https://doi.org/10.24297/jam.v19i.8891</u>
- 11. Ndichu F. T., Kamaku P. W. and Kimani P.(2020). Action of *GL*(2, *q*) On Non Zero Vectors over *GF*(*q*). *International Journal of Algebra*. 14: 233-237. <a href="https://doi.org/10.12988/ija.2020.91272">https://doi.org/10.12988/ija.2020.91272</a>
- Mutinda F. M., Kamaku P. W. and Kimani P. (2020) Ranks and Subdegrees of External Direct Product of C<sub>n</sub> × D<sub>r</sub> Acting on X × Y. International Journal of Algebra. 14: 239-245. https://doi.org/10.12988/ija.2020.91273
- Kimani P.M. and Adicka D., (2021). Action of PGL(2,q) on the Cosets of the Centralizer of an Elliptic Element. *Journal of Advances in Mathematics and Computer Science*. 36(7): 11-20. DOI: 10.9734/jamcs/2021/v36i73037
- Odhiambo B., Ngari C., Kimani P. and Njori P. (2023). Modelling and Simulation of Competition for Students Population with Holling Type II Response. *Journal of Mathematics*. https://doi.org/10.1155/2023/4102242

### **OTHER SKILLS**

- > Trained for transformational leadership skills at Kenyatta University.
- Computer Skills(Windows, excel, word, power point, dos, adobe PageMaker and access)

### **RELEVANT EXPERIENCE**

Jan 2021 to date: Lecturer Mathematics and Statistics Department, University of Embu.

Oct 2019 to 31<sup>st</sup> Dec 2020: Lecturer Department of Mathematics and computer science, University of Kabianga.

Jan 2016 to Oct 2019: Tutorial Fellow Department of Mathematics and computer science, University of Kabianga.

Aug 2014 to Dec 2015: Part-time teaching, Faculty of Education at KCA University

April 2015-Dec 2015: Part-time teaching, Department of Mathematics at Karatina University

May 2014-Dec 2015: Part-time teaching Department of Mathematics at Kenyatta University

Sep 2012 – Aug 2014: Full time teaching assistant, Mathematics Department, Kenyatta University

## **CONFERENCE PRESENTATION**

16<sup>th</sup> July 2015, Presented at the 2<sup>nd</sup> International Kenyatta University Mathematics conference:

- Application of Marks to Computation of Ranks and Subdegrees of the Symmetric Group Acting on Ordered 4-element and on Ordered 5-element subsets," Mathematics Conference.
- ii. Enumeration of Cyclic codes over GF(13)
- iii. Triples that behave like Pythagorian triples.

**17<sup>th</sup> -20<sup>th</sup> June 2019:** Presented "Subdegrees and Suborbital Graphs of PGL(2, q) Acting on the Right Cosets of the Subgroup  $C_{q+1}$ " at the 3<sup>rd</sup> International Kenyatta University Mathematics conference.

## HOBBIES

- Playing football
- Socializing
- Interested in latest technological advancements

## REFEREES

1. Prof. Ireri Kamuti,

Senior Lecturer, Department, Kenyatta University, P.O Box 43844-00100, Nairobi. Email: inkamutidr@yahoo.com

2. Dr. Kennedy Otieno

Lecturer Mathematics Department, Kenyatta University, P.O Box 43844-00100, Nairobi. Email: kawuorken@yahoo.com

# 3. Dr. Isaac Chepkwony,

Lecturer, Mathematics Department, Kenyatta University, P.O Box 43844-00100, Nairobi. Email:ichepkwony@gmail.com