KARATINA UNIVERSITY

STAFF PROFILE TEMPLATE

1. **Name:** [Dr. Peter Kung'u Ngigi]
2. **Designation**: [Lecturer]
3. **Employment details**

   School: [School of Pure and Applied Sciences]

   Department: [Mathematics, Statistics and Actuarial Science]

4. **Contact Information**

   Email Address: pngigi@karu.ac.ke, npkungu@gmail.com

   Research Links: **[**https://orcid.org/0009-0009-4050-897X**]**

4. **Describe your professional self**.

Dr. Peter K. Ngigi is a lecturer in the School of Pure and Applied Sciences where he has been a faculty member from 2012. He is a Biostatistician who undertook his postgraduate studies at Moi University. His research interest is in Response Surface Methodology with key interest in Developing optimal empirical models and estimation procedures in order to obtain quantitative information from data, testing validity and efficiency of models for mixture experiments. He has experience in data analysis using Matlab, SAS and SPSS. He is well-endowed with skills of Designing and planning of experiments, Development of Monitoring and Evaluation Instruments, Data Analysis and Report writing. He is presently researching on Optimal Slope Baseline Restricted Mixture experiments and their use.

5. **Area/ Field of specialization**: [Biostatistics]

6. **Research interests**: [Optimal Designs for Mixture Experiments]

7. List some of your key published works.

Peer-reviewed Publications

1) Ngigi Peter kung'u, J. K. Arap Koske and Josphat K. Kinyanjui. (2020). "*D-Optimal Slope Design for Second Degree Kronecker Model Mixture Experiment with Three Ingredients". International Journal of Statistics and Probability.* **Vol. 9**, no.2.
   URL: https://doi.org/10.5539/ijsp.v9n2p30
2) Ngigi Peter kung'u, J. K. Arap Koske and Josphat K. Kinyanjui. (2021). "*A- Optimal Slope Design for Second Degree Kronecker Model Mixture Experiment with Four Ingredients with Application in Selected Fruits Blending". International Journal of Statistics and Probability.* **VOL.10.** no. 2.
   URL: https://doi.org/10.5539/ijsp.v10n2p36