

# MARWA HASSAN CHACHA

**Statistician, Lecturer and Researcher**

Enthusiastic and skilled Statistician with more than three years of experience in Lecturing, Research and Data Analytics.

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## SKILLS

Lecturing

R

Python

SPSS

Ms. Excel

Leadership

Team Work

Emotional Intelligence

Market Research

Versatile

## WORK EXPERIENCE

### **Murang'a University of Technology**

#### **Part time Lecturer - Mathematics and Actuarial Science Department**

*January 2023 to Date*

- Teaching: Economic Statistics, Probability and Statistics, Econometrics, Statistical Demography, Medical Biostatistics.
- Designing, preparing and developing courses, modules and teaching materials.
- Developing and implementing new methods of teaching to reflect changes in research.
- Assessing students' coursework.
- Setting, administering, marking and moderating examinations and continuous assessments.

### **Regional Centre Training Institute**

#### **Part time Lecturer - Mathematics and Physics Department**

*March 2023 to Date*

- Teaching: Business Statistics, Quantitative Methods, Mathematics.
- Designing, preparing and developing teaching materials.
- Assessing students' coursework.
- Setting, administering, marking and moderating examinations and continuous assessments.

### **Stats - World Research and Insight Limited**

#### **Researcher**

*January 2020 to Date*

- Big data analytics.
- Data analysis.
- Designing Market Research programs.
- Proposal and Project writing.
- Questionnaire Development and Administration.

### **Murang'a University of Technology**

#### **Volunteer - Mathematics and Actuarial Science**

*September 2020 to November 2022*

- Administering and marking of Continuous Assessment Tests (CATs).
- Administering and marking of Examinations

**Kenya Institute of Highways and Building Technology - Ngong' Campus**  
**Part time Lecturer - Mechanical Engineering Department**  
*September to December 2023*

- Delivering lectures.
- Designing, preparing and developing courses, modules and teaching materials.
- Assessing students' coursework.
- Setting, administering, marking and moderating examinations and continuous assessments.

## EDUCATION

### PhD in Applied Statistics

Maasai Mara University  
2023 to Date

### MSc in Statistics

Murang'a University of Technology  
2020 - 2022

### BSc in Applied Statistics with Programming

Murang'a University of Technology  
2015 - 2019

### KCSE

Uriri High School  
2011 - 2014

### KCPE

Msomi Academy  
2003 - 2010

## RESEARCH INTEREST

Machine Learning

Time Series

Statistical Modelling

Nuptiality

## PUBLICATION

Chacha, M. H., Anapapa, A., & Mutuguta, J. (2022). Forecasting of Banking Sector Securities Prices in Kenya Using Machine Learning Technique. *Asian Journal of Probability and Statistics*, 18(1), 19-30. <https://doi.org/10.9734/ajpas/2022/v18i13043>.

## LEADERSHIP AND AWARDS

- Certificate of Excellence in Reviewing, *Journal of Economics, Management and Trade*. 2024.
- Class Representative, Bachelor of Science (Applied Statistics with Programming). 2017/2018, 2016/2017, 2015/2016 Academic Years.
- Position 3 in Mathematics Form 4 in the 2013/2014 Academic Year.
- Position 3 in Kiswahili in March/April 2014 RIMBO Joint Form 4 Pre - Mock.

## REFEREES

- **Dr. John Wanjau Mutuguta** | Chairman.  
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- **Mr. Simon Gitau Kariti** | Chairman.  
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