

## PERSONAL INFORMATION



JUMA GODFREY SHEM

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<https://scholar.google.com/citations?user=X4lkV90AAAAJ&hl=en>

PO BOX 1699-50200, BUNGOMA KENYA

Sex Male || Nationality Kenyan

## PERSONAL STATEMENT

I am an interdisciplinary officer interested in areas of teaching, research and Laboratory Management with emphasis in physical sciences , climate change and quantitative data analysis. My past experience is equally interdisciplinary with interdisciplinary active research. Technical skills in MATLAB and R programming.

## WORK EXPERIENCE

(9/2015 – Present )

**Principal Technician II (Grade 11) : Equivalent to Tutorial Fellow / Junior Research Fellow/ Assistant Lecturer**

**Department of Mathematics; Kibabii University, Kenya**

### Main activities and responsibilities

- Assisting undergraduate students in practical and research in the area of statistical computing and data analysis using SPSS,R and MATLAB
- Departmental ISO and website champion
- Providing administrative support to the Chairman of Department

**January 2016 to January 2017**

**: Part time Lecturer, Masinde Muliro University of Science and Technology.(MMUST)**

CDMHA: Introduction to Environmental Science; Theory of Resource Use.

**(8/2009 – September , 2015 )**

**Senior Technologist (Grade DEF (8/9/10)) :**

**Department of Meteorology ; University of Nairobi ,Kenya**

### Main activities and responsibilities

- Assisting undergraduate students in practical and research in the area of data analysis using SURFER, R, MATLAB and other analysis tools for climate data
- Computer Laboratory Management
- Departmental website champion
- Providing administrative support to the Chairman of Department

sector : Education and Research

## EDUCATION AND TRAINING

(2013 - 2015)

### Master of Science in Climate Change

School of physical Sciences, Department of Meteorology, University of Nairobi, Kenya

- Covered courses in climate change science; Climate change hazards, vulnerability and risk assessment; Climate Change adaptation and Mitigation; Research Methods and Techniques; Climate Change and Agriculture and Food security; Economics of Climate change among others.
- Skill gained in climate downscaling and projections

(2004 - 2009)

### Bachelor of Science

Faculty of Science, Department of Physics/Mathematics , Moi University, Kenya

(2008 - 2009)

### Higher National Diploma in Human Resource Management (pass).

Department of Liberal Studies, Kenya Polytechnic, Kenya

- Covered courses in fundamentals of Management, employee resourcing, employee relations among others)

(other qualifications )

### Diploma in Analytical Chemistry (credit pass); KCSE B – (Minus)

## PERSONAL SKILLS

Mother tongue(s) Luhya

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient	Proficient	Proficient	Proficient	Proficient
Kiswahili	Proficient	Proficient	Proficient	Proficient	Proficient

### Communication skills

- Good communication skills gained through my years experience and training. Communication skills was covered in my training and also at Kenya Institute of Mass communication where I had started a postgraduate diploma in mass communication in 2015 but got a job away from Nairobi Kenya.

### Organisational / managerial skills

- I have accrued managerial skills in class

### Job-related skills

- Interdisciplinary
- Good understanding of the research process
- Active researcher

### Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent	Independent	Independent	Independent	Independent

- Good command of office suite (word processor, spread sheet, presentation software) gained through training between November 2009 and January 2010.
- Good research reviewing skills gained as a reviewer of some journals
- Good research conceptualization and proposal writing
- Good content uploading skills gained as an e learning champion where upload content for faculty of science
- Basic customer service skills gained in a two day training in October 2009

### Other skills

- Basic computer user support skills obtained by experience when I was in charge of computer laboratory from 2009 to 2015.

## ADDITIONAL INFORMATION

### A. PUBLICATIONS

1. Opemo, D. O., **Juma S.G. (2019)**. Logistic regression analysis of mortality among fishermen in the riparian counties of Lake Victoria, Kenya. *Central African Journal of Public Health: Vol (5) issue (1).Pages 46-51*
2. **Juma S.G.**, Makokha J.W., Kelonye F.B. (2018). Hybrid single particle simulation of atmospheric pollutants over Bungoma County in Kenya. *Ethiopian Journal of Environmental Studies and Management : Vol.(9), Issue 9(s).Pages 871-881.*

3. John W. Makokha, Jared O. Odhiambo, **Juma Godfrey Shem**; (2018). Long Term Assessment of Aerosol Radiative Forcing over Selected Sites of East Africa. *Journal of Geoscience and Environment Protection*, 2018, 6, 22-34
4. Cassim Zuberi, **Juma G.S.** (2018). Temporal analysis of drought in Mwingi sub county of Kitui County in Kenya using the standardized precipitation index (SPI). *Journal of climate Change: Vol.(4) issue (16) pages 728-733*.
5. John W. Makokha, Jared O. Odhiambo and **Juma S. Godfrey**. (2017). Trend Analysis of Aerosol Optical Depth and Ångström Exponent Anomaly over East Africa. *Atmospheric and Climate Sciences*, 2017, 7, 588-603
6. Betty J. Sitienei, **Shem G. Juma**, Opere Everline (2017). On the Use of Regression Models to Predict Tea Crop Yield Responses to Climate Change: A Case of Nandi East, Sub-County of Nandi County, Kenya. *MDPI : Climate Vol.(5), Issue (54) Pages 1-14*.
7. **Juma S.G.**, Kelonye F.B. (2016). Projected rainfall and temperature changes over Bungoma county in western Kenya by the year 2050 based PRECIS Modelling system. *Ethiopian Journal of Environmental Studies and Management: Vol.(9), Issue (5). Pages 625-640*.
8. Opere E., **Juma S.G.**, Sitienei Betty (2016). Trends in monthly rainfall and temperature in Rachuonyo North Sub-County, Kenya. *Ethiopian Journal of Environmental Studies and Management : Vol.(9), Issue (5). Pages 625-640*
9. **Juma Shem G.**, Muthama John N., Mutai Bethuel K., (2015 ). Simulation of radiative forcing due to aerosols over some Counties in Kenya. *BEST: International Journal of Humanities, Arts, Medicine and Sciences: Vol. 3, Issue 11, Nov 2015, 65-88*.
10. **Juma Shem G.**, Mutai Bethuel K., Ngaina Joshua (2015 ). Socio-Economic Valuation of Information for Climate Change Adaptation and Mitigation: A Case of Farmers' Responses in Kakamega County. *BEST: International Journal of Humanities, Arts, Medicine and Sciences: Vol. 3, Issue 12, Dec 2015, 89- 104*

## B. CONFERENCE PRESENTATIONS

1. Kefa Nyende; **Juma S.G.** (2016). Food Utilization Assessment in Mt. Elgon Sub-County of Bungoma County. *Kibabii University first annual interdisciplinary conference 22-24<sup>th</sup> June, 2016*.
2. Ekisa George, **Juma Shem G**; Lucy Chikamai. (2016). Climate Change Vulnerability Implications on Gender in Bungoma County, Kenya. *Kibabii University first annual interdisciplinary conference 22-24<sup>th</sup> June, 2016*.
3. **Juma G.S**, Magero V., Mulati O., Kwach B., Kelonye F (2016) .Projected Rainfall and Temperature Changes Over Bungoma County in Western Kenya by the Year 2050 Based on PRECIS Modeling System. *Kibabii University first annual interdisciplinary conference 22-24<sup>th</sup> June, 2016*.
4. **Juma S.G**; Betty Sitienei , Magero Vincent (2017). On the use of regression models to predict tea crop response to climate change; A Case of Nandi East Sub-County; Kenya. *Kibabii University second annual interdisciplinary conference 13-14<sup>th</sup> June, 2017*.

## REFEREES

1. Prof. Muthama John; Department of meteorology, po box 30197-00100  
Email: [jmuthama@uonbi.ac.ke](mailto:jmuthama@uonbi.ac.ke)
2. Dr. John Makokha, Senior Lecturer, Department of Physics, Kibabii University, Po Box 1699-50200, Bungoma Kenya.  
Email: makokhajw@kibu.ac.ke; TEL: +254721825520

3. *Mr. Mulati Nyukuri, Department of Mathematics, Kibabii University; P.O. Box 1699-50200, Bungoma Kenya  
Email: mmukoba@yahoo.com; TEL: +254722650717*