

Abraham Kipkosgei Lagat

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EDUCATION

Jomo Kenyatta University of Agriculture and Technology **Nairobi, Kenya**
Master of Science in Applied Statistics 2018

- **Research:** Support Vector Regression and Artificial Neural Network Approaches: Case of Economic Growth in East Africa Community
- **Conferences:** 61st World Statistics Congress; July 16-21. Marrakech, Morocco.

Moi University **Eldoret, Kenya**
Bachelor of Science in Applied Statistics with Computing 2010

- **Project:** Modeling of Meteorological Factors on Maize Quality: A case of Eldoret Region

Chebara Secondary School **Eldoret, Kenya**
Kenya Certificate of Secondary Education (KCSE) 2004

- **Co-curricula activities:** Manufacture of Phosphatic Fertilizer (Science congress talk)

WORK EXPERIENCE

CIMMYT Kenya **Nairobi, Kenya**
Research Technician, Genetic Resource Program 1 Apr 2019 – Date

KEMRI-Wellcome Trust Research Programme **Nairobi, Kenya**
Data Manager, Health Systems Unit 1 Nov 2016 – 31 Mar 2019

Kenya Plant Health Inspectorate Service **Nairobi, Kenya**
Statistician, Plant Variety Protection and Seed Certification Unit 1 Mar 2012 – 31 Oct 2016

OTHER EXPERIENCES

Naktuinbow **Roelofarendsveen, Netherlands**
Plant Examiner Intern, Plant Variety Protection 28 June 2014 – 12 July 2016

Toes Computer and Research Centre **Eldoret, Kenya**
Data analyst March 2008 – Apr 2010

Chebororwa Agricultural Training Centre **Eldoret, Kenya**
Seasoned Intern Jun - Aug 2008, Dec 2008, Dec 2009

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in English, Kiswahili, Kalenjin; Beginner in Spanish

Technical Skills: R, Python, SAS, SPSS, SQL, Android, HTML & PHP

ACTIVE MEMBERSHIP

- International Biometric Society (IBS), Since 2012
- International Statistics Institute (ISI), Since 2013
- American Statistical Association (ASA), Since 2016
- Global Burden of Disease Collaborative Network), Since 2015
- European Network of Business and Industrial Statistics (ENBIS), since 2013
- Statistics Without Borders (SWB), since 2020

LEADERSHIP

- Communication Coordinator, IBS Kenya Chapter, 2018-Date
- Chair (Communication Sub-committee LOC), IBS Sub-Saharan Network (SUSAN) 2021 Conference 2020-2021
- Regional Social Media Liaison, International Biometric Society (IBS), 2019-2020
- Vice secretary, International Biometric Society - Kenya Chapter, 2018-2020
- Team Leader (Information Technology), AIESEC Moi University, 2008/2009
- Vice President (Information Technology, Incoming and Outgoing Exchange), AIESEC Moi University, 2009/2010

PUBLICATIONS AND CONFERENCE CONTRIBUTIONS

- Lagat, A. K, Kangogo, J. and Biwott, C. J (2021). Analysis of Land Cover Changes in Cherangani Hills Forest, Kenya. Paper presented at: [IBS SUSAN 2021](#) Conference. 6 -9 September, 2021
- Musundure , L.L., et al (2021). *Stability Assessment of Single Cross Maize Hybrids Using GGE Biplot Analysis . *Journal of Agricultural Science* 13(2):78 .
- Lagat, A. K, Koech, V. K and Biwott, C. J (2019) [Growth of Dairy Farming Societies in Kenya](#). Paper presented at: *3rd CUK Annual Conference*. March 25–26. Nairobi, Kenya
- Lagat, A., Biwott, C. and Komen, R. (2018). [Modeling temporal volatility of farm produce prices in Kenya](#). *Proceedings of the 2018 JKUAT Scientific Technological and Industrialization Conference* (pp 306-314). Jomo Kenyatta University of Agriculture and Technology, Nov 15–16.
- Tom A., et al (2018). [Health disparities across the counties of Kenya and implications for policy makers, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016](#). *The Lancet Global Health*.
- Lozano, R., et al. (2018). [Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017](#). *Global Health Metrics*. Volume 392(10159), pp.2091-2138
- Lagat, A., Waititu, A., Wanjoya, A. (2017). [Support Vector Regression and Artificial Neural Network Approaches: Case of Economic Growth in East Africa Community](#). Poster Session at: *61st World Statistics Congress; July 16-21*. Marrakech, Morocco.
- Lagat A., (2016). [Addressing food security challenges in developing countries](#). In Basford, K. (Chair) *Global Food Security: the role of statisticians and statistical science*. ISI Invited Session at *28th International Biometric Conference*. July 10 – 15. Victoria, Canada
- Lagat, A., and Ngeny, J. M. (2016). [Spatio-temporal analysis of yield trends for recommended maize varieties in Kenya](#). Paper presented at: *28th International Biometric Conference*. July 10–15. Victoria, Canada

- Lagat A., and Korir, B. (2010). *Modeling of Meteorological Factors on Maize Quality: A case of Eldoret Region* (Unpublished Research Work). School of Mathematics and Computer Science, Moi University, Kenya.

TRAININGS

- Machine Learning Zoomcamp, DataTalks (Sep – Dec 2021)
- Species Distribution Modeling with Remote Sensing, ARSET (Aug 2021)
- Using Google Earth Engine for Land Monitoring Applications, ARSET (Jun 2021)
- Biodiversity Informatics, Biodiversity Summer School (May 10 – 21, 2021)
- Spatial Data Science, ESRI (Feb – Apr 2020)
- SAR for Landcover Applications (28 Aug, 4 Sep 2019)
- Create a Smart Home IoT Application, IBM (Sep 2019)
- Microsoft Professional Capstone : Data Science, Microsoft (Mar – Dec 2019)
- Advanced Webinar: Change Detection for Land Cover Mapping, ARSET (28 Sep – 5 Oct 2018)