

PERSONAL DETAILS

Name Alex Machio Kange, PhD
Profession Agricultural Scientist (Plant Pathologist)
Nationality Kenyan
Current position Lecturer
Department of Agriculture & Natural Resources
School of Pure & Applied Sciences
Bomet University College (A Constituent College of Moi University)
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EDUCATION / ACADEMIC QUALIFICATIONS

YEAR	DEGREE / CERTIFICATE	INSTITUTION
2019	Doctor of Philosophy (PhD) in Plant Pathology	Nanjing Agricultural University, China
2015	Master of Science in Crop Protection (Pathology)	Egerton University, Kenya
2009	Bachelor of Science in Agriculture	Egerton University, Kenya
2002	Kenya Certificate of Secondary Education	Tebesonik Secondary School
1997	Kenya Certificate of Primary Education	St. Mary's Boys Primary School

EMPLOYMENT HISTORY

YEAR	POSITION	INSTITUTION
Jan. 2021- Present	Lecturer	Department of Agriculture and Natural Resources, Bomet University College
Sept. 2019 - Jan. 2021	Part-Time (P/T) lecturer	Department of Crops, Horticulture & Soils Egerton University
May 2016 - Aug. 2016	P/T lecturer	Department of Plant, Animal & Food Sciences, Jaramogi Oginga Odinga University of Science & Technology
May 2013 - Aug. 2016	P/T lecturer / Technician	Department of Crops, Horticulture & Soils Egerton University
May 2016- Sept. 2016:	Project Manager	World Vision Kenya, Samburu County
Apr. 2015 - Apr. 2016	Project Officer	Agriculture Extension, World Vision Kenya
Jan. 2014 -Mar. 2015	Lecturer / Technician	Baraka Agricultural College
Sept. 2012 – Apr. 2014	Graduate Research Assistant	Kenya Agricultural Productivity & Agribusiness Project.
Mar. 2012-Sept. 2012	Teacher (Agriculture & Biology)	St. Francis Secondary School, Lare
Sept. 2008-Sept. 2009	Agricultural Extension Officer	Baraka Agricultural College

MEMBERSHIP OF COMMITTEE AT BOMET UNIVERSITY COLLEGE

1. Member of an ad-hoc committee to steer preparation for the new students of the 2021/2021 Academic year.

ACADEMIC PUBLICATIONS

Journals articles published

1. **Alex Machio Kange**, Ai Xia, Jierui Si, Bingxin Li, Xiong Zhang, Gan Ai, Feng He, & Daolong Dou (2019). The fungal-specific transcription factor VpFSTF1 is required for virulence in *Valsa pyri*. *Frontiers in Microbiology*.
2. Sylvans Ochola , Jie Huang, Haider Ali, Haidong Shu, Danyu Shen, Min Qiu, Liyuan Wang, Xi Li Han Chen, **Alex Kange**, Dinah Qutob & Suomeng Dong. (2019). Editing of an effector gene promoter sequence impacts plant. *Journal of Integrative Biology*.
3. He, F., Li, B., Ai, G., **Kange, A. M.**, Zhao, Y., Zhang, X., Jia, Y., Dou, D., Liu, F., & Cao, H. (2018). Transcriptomics Analysis of the Chinese Pear Pathotype of *Alternaria alternata* gives Insights into Novel Mechanisms of HSAF Antifungal Activities. *International Journal in Molecular Science*. 19(7), 1841.
4. He, F., Zhang, X., Li, B., Safdar, A., Ai, G., **Kange, A.M.**, Zhao, Y., Cao, H., Dou, D., & Liu, F. (2018). Comparative transcriptomics of two *Valsa pyri* isolates uncovers different strategies for virulence and growth. *Microbial Pathogenesis* 123, 478.
5. Rosana, E. M., **Kange, A. M.**, Wati, L. N., & Otaye, D. O. (2017). Effects of Fertilizer and Fungicide Application Rates on the Incidence and Severity of Late Blight (*Phytophthora infestans*) on Irish Potatoes (*Solanum tuberosum* L.). *World Journal of Agricultural Research*, 5(3), 169-176.
6. **Kange, A. M.** (2016). Assessment of Handling Sorghum (*Sorghum bicolor* L. Moench) Grains in Production Areas. *International Journal of Plant & Soil Science*. 10(4): 1-7.
7. Rono, J. K., Cheruiyot, E. K., Othira, J. O., Njuguna, V. W., Macharia, J. K., Owuoche, J., Oyier, M., & **Kange, A. M.** (2016). Adaptability and Stability Study of Selected Sweet Sorghum Genotypes for Ethanol Production under Different Environments Using AMMI Analysis and GGE Biplots. *The Scientific World Journal*.
8. **Kange, A. M.** (2016). Postharvest Evaluation of Fungi Linked with Sorghum (*Sorghum bicolor* L. Moench) grains. *Research Journal of Agriculture*.3 (3).
9. **Kange, A. M.** (2016). Mycoflora Compositions of Sorghum (*Sorghum bicolor* L. Moench) Grains from Eastern Region of Kenya. *Journal of Agriculture and Ecology Research International*. 8(2): 1-13.
10. **Kange, A. M.**, Cheruiyot, E. K., Ogendo, J. O., & Arama, P. F. (2015). Effect of sorghum (*Sorghum bicolor* L. Moench) Grain Conditions on Occurrence of Mycotoxin Producing Fungi. *Agriculture & Food Security*, 4(1), 15.
11. **Kange, A. M.**, Cheruiyot, E. K., Ogendo, J. O., Arama, P. F. & Ochola, S.O. (2014). Pre- and Post-harvest Factors Affecting Sorghum (*Sorghum bicolor* L. Moench) Production among smallholder farming communities. *International J. Agronomy & Agricultural Research* 5(4): 40-47.

REFEREED PAPERS PRESENTED IN SCIENTIFIC CONFERENCES AND WORKSHOPS

1. The 6TH Maasai Mara University International Conference: 28TH -30TH, June, 2021. Biology & Technology Session 4. Sub-theme: (2) Building resilient systems to respond to environmental shocks in health, agriculture, natural resources and economic systems. Organizers: Maasai Mara University. Electronic book of abstracts; Pages 59.
Effects of Fertilizer and Fungicide Application Rates on the Incidence and Severity of Late Blight (*Phytophthora infestans*) on Irish Potatoes (*Solanum tuberosum* L.) (2017). Rosana, E. M., **Kange, A. M.**, Wati, L. N., & Otaye, D. O.
2. Early career research leader fellowship (ECRLF) conference / workshop. 6TH – 8TH, July 2021: Theme: Promoting Multidisciplinary Research Approaches for Sustainable Agricultural Development: Laikipia University, Main Campus: Organizers: Laikipia University.
Effect of sorghum (*Sorghum bicolor* L.) grain conditions on occurrence of mycotoxin-producing fungi. **Alex Machio Kange**, Erick K. Cheruiyot, Joshua O. Ogendo & Peter F. Arama.
3. Kenya Agricultural Productivity Agribusiness Project (KAPAP). 10th - 12th June 2015. KALRO Headquarters, Nairobi. Theme: Enhancing Agricultural productivity & income through research, partnership, technologies & innovations for sustainable development. Organizers: Kenya Agricultural Productivity Agribusiness Project (KAPAP).
 - i. Characterization of mould fungi and aflatoxin strains in post-harvest Sorghum (*Sorghum bicolor* L.) grain. **Alex M. Kange**, Erick K. Cheruiyot, Joshua O. Ogendo & Peter F. Arama (book of abstract Pg. XVIII).
 - ii. Assessment of pre-and post-harvest factors affecting occurrence of mould fungi in sorghum (*Sorghum bicolor* L. Moench) grains. (Book of abstract Pg. XVIII). **Alex M. Kange**, Erick K. Cheruiyot, Joshua O. Ogendo & Peter F. Arama.
4. 1st Laikipia University International Conference: Research and Expo. May 20th – 23rd 2014 Main Campus, Kenya. Theme: “African Universities: Crisis, Transformation and Opportunities Organizers: Research Division, Laikipia University.
 - i. Pre and post harvest factors affecting Sorghum production in the counties of Siaya , Nakuru and Makueni: (book of abstract Pg. 60). **Alex M. Kange**, Erick K. Cheruiyot, Joshua O. Ogendo & Peter F. Arama.
5. 8th Egerton University International Conference: Research & Expo. 26th–28th March 2014. Faculty of Education Complex Egerton University, Njoro, Kenya. Theme: Innovative research & technology for global development. Organizers: Research & Extension Division, Egerton University.
 - i. Pre- and post-harvest factors affecting sorghum production (*Sorghum bicolor* L. Moench) in smallholder farming communities in three administrative counties: (book of abstract Pg. 2). **A. M. Kange**, E. K. Cheruiyot, J. O. Ogendo & P. F. Arama.

MEMBERSHIP TO SCIENTIFIC/ PROFESSIONAL ASSOCIATION

- i. American Phytopathological Society (APS) (Member ID 269974)

SCHOLARSHIPS / SPONSORSHIP / FELLOWSHIP

1. People's Republic of China full scholarship for doctorate studies in Plant Pathology at Nanjing Agricultural University, China.
2. Kenya Agricultural Productivity Agribusiness Project (KAPAP) (KAPAP CGS / CEREALS / FP/2011) - Post graduate research award-Master of Science in Crop Protection, Egerton University, Kenya.
3. Government of Kenya Undergraduate Scholarship to undertake B.Sc. in Agriculture at Egerton University, Kenya

CONSULTANCY - (PROFESSIONAL & COMMUNITY OUTREACH SERVICES)

- i. July, 2019 – Dec. 2020. Integrated Livestock Project, Kenya, in South Western Mau Forrest Block (wards, Kiptororo and Tinet in Nakuru county and Chepseon in Kericho county) implemented by SNV Kenya / Netherlands Development Organization funded by The Initiative for Sustainable Landscapes (ISLA) Kenya is a partnership set up by IDH (the sustainable trade initiatives).

REVIEW OF JOURNAL ARTICLES AND PUBLICATIONS

1. Paper review for International Journal of Plant & Soil Science.
2. Paper for Asian Journal of Agricultural Extension, Economics & Sociology.
3. Paper for Asian Plant Research Journal.

1. REFEREES

1. Prof. Erick Kimutai Cheruiyot PhD,

Department of Crops Horticulture & Soils, Egerton University,

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2. Prof. Joshua Ondura Ogendo PhD,

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3. Prof. Peter Futi Arama, PhD,

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