

## DR. JONATHAN MUTONYI

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### PROFILE SUMMARY

As a qualified Agronomist and Practicing Lecturer, I possess the knowledge and skills to plan, teach and evaluate students in recommended courses within the University Academic Curriculum. I am also capable of conducting research and make informed decisions with regard to agricultural production and its impact on social-economic activity in Kenya. This is evidenced by Publication of my work in Peer Refereed Journals and Presentations at local and international conferences. The areas of work I have been involved include, Full Time Lecturing at Kibabii University, Faculty of Science, Department of Agriculture and Veterinary Sciences and Part Time Lecturing at Masinde Muliro University of Science and Technology's School of Agriculture and Veterinary Technology and in the last four years. I have recently carried out field surveys and documentation on the occurrence of Yellow aphid (*Sifa flava*) in sugarcane in western Kenya. I have previously evaluated and recommended cost-effective technologies for sugarcane yield and productivity improvement in the sugar zone of western Kenya. I have widely traveled and gained hands on experience in agricultural management from countries like Australia, Brazil, China, Egypt, India, Israel, Mauritius, South Africa, Tanzania, Uganda, United Kingdom, U.S.A and Zimbabwe. I hold current membership with the Kenya, East Africa and International Societies of Sugarcane Technologists and the Professional Trainers Association of Kenya (PTAK). I seek to work productively in an institution that provides a supporting and challenging environment for its employees while developing them career wise. I aspire to be a Career Scientist involved in Agricultural Research and Technology transfer.

### PERSONAL DETAILS

Name: Jonathan Mutonyi  
Date of birth: January 28, 1968  
Nationality: Kenyan  
Religion: Christian  
Marital Status: Married  
Permanent Address: P.O. Box 106-50100 Kakamega, Kenya  
Current Address: P.O. Box 1699-50200 Bungoma, Kenya  
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Countries visited: Australia, Brazil, China, Egypt, India, Israel, Mauritius, South Africa, Tanzania, Uganda, United Kingdom, U.S.A, Zimbabwe  
Languages spoken/written: English, Swahili and Luhya

### EDUCATION

Institution	Course/Certificate	Period	Date/Grade
University of Nairobi	PhD (Agronomy)	2010-2014	August 29, 2014
University of Nairobi	MSc (Agronomy)	2004-2006	September 01, 2006
University of Nairobi	BSc (Agriculture)	1987-1990	2 <sup>nd</sup> Class Hons. Upper Div.
Kabarnet High School	K.A.C. E	1985-1986	3 Principals
Mukumu Boys' Sec. Sch.	K.C. E	1974-1980	Division I, 14 Points
Kakunga Pri. School	C.P. E	1974-1980	30 Points

### OTHER QUALIFICATIONS

Institution	Course	Period	Grade
Kaha Training Inst., Egypt	Safe Handling of Crop Protec. Pds.	2009	Diploma
GIMI, Israel	Crop & Water Management	2007	Diploma
Moi University, Kenya	Computer Skills Development	2006	Certificate
RASITC, Mauritius	Sugarcane Agronomy	1999	Certificate
Kagumo Driving Sch., Kenya	Driving B, C, E Class	1998	License

## KEY SKILLS AND COMPETENCIES

**Agronomy:** Full knowledge of Crop and Soil management and Weather monitoring

**Recent agricultural developments:** Conversant with challenges facing agricultural growth in Kenya

**Pest and Disease management:** Expertise in developing and executing pest control programs

**Research and Training:** Ability to lay out field experiments, collect, analyze and train staff and farmers

**Organic farming:** Knowledge in organic composting, green manuring and environmental protection

**Teamwork:** Able to work well in a team by relating well with all team members and offering leadership

**Communication:** Excellent oral and written English and Swahili enabling me to relate well

**ICT:** Working knowledge with MS Office, e-mail and the internet.

## RELEVANT WORK HISTORY

**Period: December, 2019-to-date**

**Job Title:** Lecturer, Kibabii University, Faculty of Science, Dept. of Agriculture & Vet. Sciences

**Job Role:** To prepare course outlines, teach and evaluate students in recommended courses

**Key Achievement:** Taught and evaluated students in the following Courses: SAB 235/SAB 336: Perennial Crops, ACR 222: Annual Crops, SAB 233: Pasture and Fodder Crops, SAB 332: Crop Protection, SAB 333: Crop Physiology, 415: Soil and Water Conservation;

Participated in Curriculum Development for MSc (Crop Protection) and PhD (Crop Protection) programs for CUE approval; Attended and actively participated in Faculty Board Meetings and Conferences

**Period: September, 2019-to-December, 2019**

**Job Title:** Lecturer, Kabarak University, School of Education, Department of Education (Science)

**Job Role:** To prepare course outlines, teach and evaluate students in recommended courses

**Key Achievement:** Taught and evaluated students in the following Courses: AGRI 411: Farm Structures, Crop Processing and Storage, AGRI 410: Animal Genetics and Breeding, AGRI 321: Soil Fertility and Plant Nutrition, AGRI 324: Animal Behaviour

Attended and participated in Faculty Board Meetings and Education Conferences.

**Period: September, 2015-to-date**

**Job Title:** Part Time Lecturer, Masinde Muliro University, School of Agriculture & Vet. Sciences

**Job Role:** To prepare course outlines, teach and evaluate students in recommended courses

**Key Achievement:** Taught and evaluated students in the following Courses: SUT 211/IPT 310: Agronomy of sugar crops, APR 100: Introduction to Agricultural Processing Technology, IAB 430: Seed Science and Technology, SUT 322: Waste Management in Sugar Industries, APR 411: Wood and Pulp Processing, APR 412: Plant Fibre Extraction Technology

Attended and participated in Faculty Board Meetings.

**Period: August, 2005-to-August, 2018**

**Job Title:** Agronomist, Mumias Sugar Company Limited

**Job Role:** To plan, research and recommend cost effective technologies for sugarcane production

**Duties and Responsibilities:** Sugarcane variety and seed cane development, sugarcane nutrition

management, sugarcane pest management, weather monitoring, agricultural data collation and analysis, budgeting and cost management, human resource management.

**Job Context:**

**External Environment:** Sugar Research Institute, Sugar Directorate, Out-grower Organizations, Ministry of Agriculture, Agrochemical companies, Contractors

**Internal Environment:** Managing Director, Head of Agriculture, Heads of Section, General Mgt.

**Key Achievement:** Introduction of Potassium and agricultural lime in sugarcane fertilization at Mumias

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**Period: November, 2000-to-August, 2005**

**Job Title:** Agronomist, Nzoia Sugar Company Limited

**Job Role:** To plan, research and recommend cost effective technologies for sugarcane production

**Duties and Responsibilities:** Production of quality seed cane through hot water treatment and nursery establishment, environmental conservation through raising of tree seedlings and planting weather monitoring, agricultural data collation and analysis, budgeting and cost management, human resource management.

**Job Context:**

**External Environment:** Sugar Research Institute, Sugar Directorate, Out-grower Organizations, Ministry of Agriculture, Agrochemical companies, Contractors.

**Internal Environment:** Managing Director, Head of Agriculture, Heads of Section, General Mgt.

**Key Achievement:** Introduction of soybean intercropping with sugarcane, evaluation of Maize hybrids

**MEMBERSHIP TO PROFESSIONAL SOCIETIES**

- Member International Society of Sugarcane Technologists (ISSCT) No. 1060
- Member East African Society of Sugarcane Technologists (EASSCT) No. 410
- Member Kenya Society of Sugarcane Technologists (KSSCT) No. 02/212
- Member Professional Trainers Association of Kenya (PTAK) No. 0471
- Trainer NITA/KSSCT Accreditation in agricultural training programs

**OTHER RESPONSIBILITIES**

- Member Selection Panel, Kakamega County Revenue Agency Board, 2019-2021
- Member Strategy Formulation Team, 2017-2022 Mumias Sugar Company Limited
- Chairman BOM, 2015-to-date Shamberere Secondary School, Kakamega North Sub county
- Member PTA, Kapsabet Boys High School and PTA, Booker Academy Primary School

**PROFESSIONAL REPORTS AND PAPERS WRITTEN**

**Mutonyi, J and Khaemba, M (2020).** Evaluation of Early Maturing Sugarcane (*Saccharum officinarum*) Varieties in Mumias, Western Kenya: *In press*

**Mutonyi J and Babikha SJ (2019).** The occurrence of sugarcane yellow aphid (*Sipha flava* (Homoptera: Aphididae), in Kakamega North Sub-County, Kenya: IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS) e-ISSN: 2319-2380, p-ISSN: 2319-2372. Volume 12, Issue 6 Ser. II (June 2019), PP 34-38 [www.iosrjournals.org](http://www.iosrjournals.org) DOI: 10.9790/2380-1203031220 [www.iosrjournals.org](http://www.iosrjournals.org)

**Mutonyi J and Muturi P (2019).** What Do Data on Dry Bulk Density (BD) and Porosity (P) Tell About the Quality of Soils in the Mumias Sugar Zone, Western Kenya? IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS) e-ISSN: 2319-2380, p-ISSN: 2319-2372. Volume 12, Issue 3 Ser. III (March 2019), PP 12-20 [www.iosrjournals.org](http://www.iosrjournals.org) DOI: 10.9790/2380-1203031220 [www.iosrjournals.org](http://www.iosrjournals.org)  
12 | Page

- Mutonyi J** and Nyongesa HW (2016). Incidence and Prevalence of Ratoon Stunting Disease (*Leifsonia Xyli* Subsp. *Xyli*, Evtushenko) in the Mumias Sugar Cane Growing Zone, Kenya. IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS) e-ISSN: 2319-2380, p-ISSN: 2319-2372. Volume 9, Issue 11 Ver. II (Nov. 2016), PP 28-31 [www.iosrjournals.org](http://www.iosrjournals.org)
- Solomon SI, Ndiema CG and **Jonathan M** (2014). Effects of agricultural lime and phosphorus application to sugarcane (*Saccharum officinarum* L.) growth, yield and quality. International Journal of Agri Science 2014 Vol.4 No.11 pp.490-498 ref.24
- Mutonyi J**, Shibairo SI, Chemining'wa GN, Olubayo FM, Nyongesa HW (2014). Sugarcane response to liming, manuring and inorganic fertilizers on acid acrisols in western Kenya. International Journal of Recent Scientific Research. 2014;5(9):1703-1707.
- Mutonyi, J** (2014). Management Strategies for potassium (K) deficiency and low soil pH on sugarcane growth, yield and quality in the Mumias Sugar Zone of western, Kenya, PhD Thesis, University of Nairobi, Kenya.
- Mutonyi J**, Shibairo SI, Chemining'wa GN, Olubayo FO, Nyongesa HW, Konje MM (2014). Effects of N and K fertilization of sugarcane (*Saccharum officinarum*) on acrisols in western Kenya. Elixir Agriculture 67 (2014) 21669-21675. [www.elixirpublishers.com](http://www.elixirpublishers.com)
- Mutonyi J**, Chebosi PK and Maguge F (2006). Preliminary Observations on Sugar beet (*Beta vulgaris saccharifera*) Growing at Mumias, Kenya: Proceedings of the South African Sugar Technologists Association (2006) 80, page 137
- Mutonyi J** (2006). The Zero Grazing Yield potential of two native clovers grown alone and with Sudan grass at Kabete, Kenya; MSc Thesis University of Nairobi, Kenya.
- Mutonyi J** (2004). White cane grubs (*Cochliotis melolonthoides* ex Gerst) – a potential pest challenge to the Sugar Industry in Kenya: Proceedings of the South African Sugar Technologists Association (2004) 78, pp. 549-550
- Mutonyi J** (2003). Cost Minimization Measures for the Sugar Industry in Kenya. Kenya Society of Sugarcane Technologists (KSSCT) Journal.
- Kibwage JK, Munywe SN, **Mutonyi J**, Savala CEN and Wanyonyi E (2003). Recycling Waste into Fuel Briquettes. In: Organic Resource Management in Kenya Perspectives and Guidelines Edited by Canon E.N. Savala, Musa N. Omare and Paul L. Woomer. Forum for Organic Resource Management and Agricultural Technologies (FORMAT), P.O. Box 79, The Village Market 00621, Nairobi, Kenya. Email: [formatkenya@yahoo.com](mailto:formatkenya@yahoo.com); Chapter 15, pp. 105-111.
- Mutonyi, J** (2001). Utilization of Filter Press Mud for Soil Fertility Improvement at Nzoia; paper presented at FORMAT Workshop held on Nov 17-18 at the Village market, Gigiri Nairobi, Kenya. Forum for Organic Resource Management and Agricultural Technologies (FORMAT), P.O. Box 79, The Village Market 00621, Nairobi, Kenya. Email: [formatkenya@yahoo.com](mailto:formatkenya@yahoo.com)
- Mutonyi, J** and Oringe, F.O. (1998). Effect of Inter-stool Gap spacing on the Performance of Variety CO 421 at Nzoia, Kenya. Proceedings of the Kenya Society of Sugarcane Technologists (KSSCT). October, 1998, pp 12-16

## PROFESSIONAL SEMINARS, WORKSHOPS AND CONFERENCES ATTENDED

<b>Date</b>	<b>Place</b>	<b>Activity</b>
Mar 2020	Kibabii University	Stakeholders Workshop on Curriculum development
Oct 2019	Kabarak University	Training on Pedagogy and ISO 9001:2015 Awareness
June 2019	Kibabii University	4 <sup>th</sup> International Conference
May 2017	Cairns, Australia	39 <sup>th</sup> ASSCT Conference
Nov 2016	Moshi, Tanzania	2 <sup>nd</sup> EASSCT Congress/AGM at TPC Factory
Jan 2016	Arusha, Tanzania	1 <sup>st</sup> EASSCT Executive Committee Meeting
Apr 2015	Coimbatore, India	National Sugar Policy Dev., Benchmarking visit
Nov 2013	Canal Point, USA	Visit to USDA Sugar Cane Field Station
Jun 2013	Sao Paulo, Brazil	28 <sup>th</sup> ISSCT Congress
Feb 2013	Mumbai, India	Benchmarking visit to sugarcane growers/millers
Feb 2012	London, UK	F.O. Licht's Next Generation Biofuels Conference
Feb 2011	Arusha, Tanzania	Launch of EASSCT
Sep 2010	Arusha, Tanzania	4 <sup>th</sup> EASSCT Consultative meeting
Aug 2010	Nairobi, Kenya	Training in Executive Coaching
Nov 2009	Cairo, Egypt	Agrochemicals Application Course, Kaha Institute
May 2009	Sony Sugar Co.	Facilitator, KSSCT Field Supervisors Training
Mar 2009	Nairobi, Kenya	4 <sup>th</sup> DIT Annual Training Providers Seminar
Nov 2008	Mumias Sugar Co.	New Labour Laws (Act, 2007) Training
Sep 2008	Mumias Sugar Co.	Business Continuity Management, KCA
Aug 2008	Durban, S. Africa	81 <sup>st</sup> S. African Sugar Technologists Association Congress
Oct 2007	Kisumu, Kenya	SURTEC Technical Committee meeting
Aug 2007	Nairobi, Kenya	Management Dev. Course, Eliud & Associates
Apr 2007	Galilee, Israel	Crop Production. & Water Management Course
Mar 2007	Mumias Sugar Co.	Customer Care Course, Eliud & Associates
Mar 2007	Mumias Sugar Co.	Safe & effective Use of Chemicals, Bayer (EA) Ltd.
Jan 2007	Mumias Sugar Co.	Change Management, First Africa Consulting
Dec 2006	Guilin, China	International Symposium, IAPSIT
Aug 2005	Durban, S. Africa	79 <sup>th</sup> SASTA Congress
Dec 2004	Kisumu, Kenya	Strategic Planning Workshop, KESREF
Nov 2004	Kisumu, Kenya	Strategic Planning Workshop, Nzoia Sugar Co.
Jul 2004	Durban, S. Africa	78 <sup>th</sup> SASTA Congress
Jul 2004	Kisumu, Kenya	Western Consortium Workshop, Lake Basin
Jun 2004	Kisumu, Kenya	Velpar 75DF Herbicide Seminar, Farmchem Ltd
Apr 2004	Nairobi, Kenya	KEPHIS launch
Mar 2004	Nzoia, Kenya	Field Day Banana Management.
Feb 2004	Mumias, Kenya	Facilitator, Farmer Education, SUCAM
Nov 2003	Kitale, Kenya	Forum for Organic Resource Mgt. & Agric. Tech.
Aug 2003	Webuye, Kenya	Sacred Africa Stakeholders Workshop
Jun 2003	Mumias, Kenya	Oil Palm Extension Seminar
Apr 2003	Cairo, Egypt	CAF Champions League, Vice Chair Nzoia FC
Jan 2003	Harare, Zimbabwe	Field Day, Rattray Arnold Farm
Jan 2003	Mbale, Kenya	Soil Fertility Management, ICRAF
Nov 2002	Kisumu, Kenya	SURTEC Workshop
Nov 2002	Bungoma, Kenya	FORMAT Workshop by Sacred Africa
Nov 2002	Kakamega, Kenya	Training Needs Identification, ICRAF
Oct 2002	Kakamega, Kenya	Soil Fertility Management Seminar, Sacred Africa
Aug 2002	Nzoia, Kenya	Productivity Improvement Course, FKE
Jul 2002	Durban, S. Africa	76 <sup>th</sup> SASTA Congress
Dec 2001	Kisumu, Kenya	KSSCT Training Accreditation Workshop
Aug 2001	Kisumu, Kenya	Sugarcane Variety Evaluation Workshop
Aug 2001	Bungoma, Kenya	IPM Options Workshop, KARI

Jun 2001	Kakamega, Kenya	Strategic Planning Workshop, KESREF
Apr 2001	Kisumu, Kenya	Sugarcane Growers Guide Development, KESREF
Mar 2001	Nairobi, Kenya	Soybean Marketing Seminar, KACE/MIC
Feb 2001	Nairobi, Kenya	National Performance Trials on Maize Workshop, KARI
Mar 2000	Arusha, Tanzania	Tanzania Society of Sugarcane Technologists Workshop
Sep 1999	Reduit, Mauritius	Certificate Course in Sugarcane Agronomy
Aug 1999	Nairobi, Kenya	Soil Testing & Plant Analysis Workshop, KARI
May 1999	Morogoro, Tanzania	TSSCT Workshop/OGM Convention
Dec 1998	Mumias, Kenya	10 <sup>th</sup> KSSCT Workshop/OGM Convention
Oct 1998	Mombasa, Kenya	19 <sup>th</sup> Industrial Quality Management Seminar, KEBS
Apr 1996	Webuye, Kenya	HIV/AIDS Sensitization Seminar, CHAK
May 1993	Kisumu, Kenya	Sugarcane Husbandry & Extension Course
Sep 1987	Gilgil, Kenya	National Youth Service (NYS) Training

## INTERESTS AND HOBBIES

- Reading Scientific and Christian Literature
- Travelling and Keeping Abreast with Current Affairs
- Watching Documentaries and Football on TV
- Playing Indoor Games - Badminton, Table tennis, Scrabble, Pool

## REFEREES

1. Prof. Solomon I. Shibairo Ag. Vice Chancellor Masinde Muliro University of Science & Technology P.O. Box 190-50100 Kakamega, Kenya drkeyanic@yahoo.com	2. Dr. Japheth E. Jamoza Director Sugar Research Institute P.O. Box 44-40100 Kisumu, Kenya 0722937002/0735339912 <a href="mailto:japhethjamoza@yahoo.com">japhethjamoza@yahoo.com</a>	3. Dr. Captain Mulehi Bishop Christ Evangelistic Church (CEC) P.O. 1188-50100 Kakamega, Kenya 0718528100 <a href="mailto:captmulehi@gmail.com">captmulehi@gmail.com</a>
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