Sharon M. Tusiime

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EDUCATION	
Doctor of Philosophy, Horticulture, Iowa State University, Ames IA, USA Minor: Crop Production and Physiology - Seed Science and Technology Dissertation: Current status and prospects of tomato seed production and distribution in Uganda	Aug. 2019
Master of Science, Horticulture, Iowa State University, Ames IA, USA Thesis: Evaluating horticultural practices for sustainable tomato production in Kamuli, Uganda	July 2014
Bachelors , Agribusiness Management, Makerere University, Kampala, Uganda <i>Research project:</i> Profitability of groundnut products in Kampala markets, Uganda	May 2011
RESEARCH EXPERIENCE	
 Seed Specialist, Makerere University Regional Center for Crop Improvement (MaRCCI), Kampala, Uganda. Develop and manage seed systems for the cowpea and sorghum breeding program Establish and maintain viable research and product development networks with key partners for the seed business in Uganda and the region Provide guidance to students as they implement experimental activities Assist in any other appropriate activities as assigned by the director Postdoctoral Research Associate, Horticulture, Iowa State University, IA, USA Department of Horticulture, Iowa State University Assisted in teaching courses Engaged in the scholarship of teaching and learning Wrote and submitted peer reviewed research articles for publication 	Dec. 2019 – present Sept. – Nov. 2019
 Graduate Research Assistant, Horticulture, Iowa State University, IA, USA Department of Horticulture, Iowa State University Conducted laboratory experiments to determine the quality of tomato seeds on the Ugandan market. Implemented laboratory experiments aimed at developing practices that improve tomato seed quality among small-landholder farmers in Uganda. Surveyed approximately 550 small-landholder and youth farmers on tomato seed management and practices in Kamuli, Uganda. 	Aug. 2012 – Aug. 2019

RESEARCH EXPERIENCE CONTINUED

- Planned and executed surveys of approximately 560 key actors from private and public institutions involved in the tomato seed industry in Uganda.
- Conducted surveys and observations on seven seed companies to study their seed production and conditioning processes in Uganda and Kenya
- Organized and managed horticultural field plot experiments that evaluated sustainable practices for producing tomatoes among smallland holder farmers in Uganda.
- Translated research materials from English to Lusoga (local Ugandan language).

Research Intern, Kenya Plant Health inspectorate Services (KEPHIS), Kenya

- Performed seed sampling, purity and germination tests on crop species including maize, beans, sorghum, rice, sunflower, green grams, tomatoes and onions.
- Independently conducted seedling evaluations for various crop species including maize, beans, sorghum, rice, green grams, tomatoes and onions.
- Provided germination and purity results and recommendations (to sale or not to sale seed lots) to clients including seed companies, private farmers.

Policy Intern, Ministry of Agriculture, Animal Industry and Fisheries, Uganda

- Assisted in editing and evaluating a working draft of the National Seed Policy.
- Compared seed related policies between Uganda and other countries.
- Participated in a seed policy stakeholders' workshop.

Program Assistant, Iowa State University- Uganda Program, Kamuli, Uganda

- Evaluated five tomato cultivars for early blight disease resistance through controlled field plot experiments
- Trained rural farmers on best horticultural practices and cultivar selection using field plot experiments as demonstration plots.
- Coordinated, and managed a school garden and nutrition/lunch/feeding program in four primary schools in rural Uganda.
- Supervised and maintained university undergraduate interns conducting agricultural projects (Agroforestry, irrigation, bee keeping, poultry, health and sanitation and nutrition).
- Assisted in a research project that surveyed primary school students to evaluate the impact of a school garden on agriculture learning by primary school children in rural Uganda.

Undergraduate Research Assistant, Makerere University, Uganda

Research topic: Profitability of groundnut products in Kampala markets

- Developed and implemented a survey of over 50 market vendors
- Conducted qualitative and quantitative data analysis for the project

July – Oct. 2017

June - Aug. 2016

June 2011 – July 2012

Nov. 2010 – May 2011

PUBLICATIONS

Peer-reviewed journal articles

Tusiime, S., G. Nonnecke, D. Masinde, and H. Jensen. Evaluating horticultural practices for sustainable tomato production in eastern, Uganda. 2019. HortScience 54(11):1934-1940.

Esther Lugwana Nampeera, Dorothy Masinde, Gail R. Nonnecke, **Sharon M. Tusiime**, John M. Wesonga, Komi K.M. Fiaboe, Lucy K. Murungi, Joseph J. Baidu-Forson, and Mary O. Abukutsa-Onyango. 2019. Farmers' knowledge and practices in the management of insect pests on leafy amaranth in four counties in Kenya. Journal of Integrated Pest Management. 10(1):31;1-12.

Natukunda, M.I., Natukunda, K., Kyeyune, G., **Tusiime, S.M.**, Agbemafle, I., and Bisikwa, J. 2020. Management strategies for the noxious invasive parthenium weed (Parthenium hysterophorus L.) in Uganda. African Journal of Agricultural Research. 15(1):1-9.

Sharon M. Tusiime, Gail Nonnecke, and Helen Jensen. 2020. Tomato seed value chain analysis and seed conditioning among seed companies in Uganda. *International Food and Agribusiness Management Review.23 (4)-Pages:501-514*.

Tusiime, Sharon Mbabazi, "Current status and prospects of tomato seed production and distribution in Uganda" (2019). *Graduate Theses and Dissertations*. 17589.

https://lib.dr.iastate.edu/etd/17589

Sharon M. Tusiime, Gail Nonnecke. Evaluating practices that improve tomato seed quality among small-landholder farmers in Kamuli Uganda, (*In preparation for submission to HortScience. Expected submission: December 2020-February 2021*).

Sharon M. Tusiime, Gail Nonnecke and Dorothy Masinde. Tomato seed management practices among adult and youth farmers in Kamuli, Uganda, (In preparation for submission to Journal of Agricultural Extension. Expected submission: December 2020-February 2021.).

Sharon M. Tusiime, Gail Nonnecke. Evaluating tomato seed quality and density in Kamuli, Uganda, (In preparation for submission to HortScience. Expected submission: December 2020-February 2021.).

Abstracts

Tusiime, S. and G. Nonnecke. 2016. Current tomato seed management practices among in and out- of- school youth in Kamuli, Uganda. HortScience 51(9) Supplement—2016. American Society for Horticultural Sciences Annual Conference (abstr.).

PUBLICATIONS CONTINUED

Tusiime, S., G. Nonnecke, D. Masinde, and H. Jensen. 2016. Evaluating horticultural practices for sustainable tomato production in Kamuli, Uganda. HortScience 51(9) Supplement—2016. American Society for Horticultural Sciences Annual Conference (abstr.)

Duerfeldt, K., **S. Tusiime** and G. Nonnecke. 2016. Impact of sack gardening by youth in a Ugandan school garden program. HortScience 51(9) Supplement—2016. American Society for Horticultural Sciences Annual Conference (abstr.).

Research Report

Nonnecke, G., **S. Tusiime**, W. Riesselman, B. Havlovic, B. Breach, N. Howell, B. Carpenter, and F. Takenda. 2017. Thornless blackberry cultivars grown with a rotatable cross arm trellis system. Annual Research Report: ISRF16-36

RESEARCH PRESENTATIONS

Norman Borlaug lecture poster competition for graduate and undergraduate students; World Food Issues. Fall, 2018. Iowa State University, Ames, IA, USA.

Title: Evaluating tomato seed quality in Uganda.

Co-author: Dr. Gail Nonnecke.

Association for International Agriculture and Rural Development (AIARD). Summer, 2018. Washington DC, USA.

<u>Title:</u> Business "Un" usual: Aligning critical intersections of agriculture, health and food.

Annual Horticulture Research Retreat. Fall, 2016. Department of

Horticulture, Iowa State University, Ames, IA, USA.

<u>Title:</u> Current tomato seed management practices among in- and out of school youth in Kamuli, Uganda.

Co-author: Dr. Gail Nonnecke.

Norman Borlaug lecture poster competition for graduate and undergraduate students; World Food Issues. Fall, 2015. Iowa State University, Ames, IA, USA.

<u>Title:</u> Evaluating horticultural practices for sustainable tomato production in Kamuli, Uganda.

Co-authors: Dr. Gail Nonnecke, Dorothy Masinde and Helen Jensen.

RESEARCH PRESENTATIONS CONTINUED

Global Food Security Consortium. Graduate and undergraduate poster presentations. Spring, 2015 Iowa State University, Ames, IA, USA.

<u>Title:</u> Current tomato seed management practices among in- and out of school youth in Kamuli, Uganda.

Co-author: Dr. Gail Nonnecke.

Annual Horticulture Research Retreat. Fall, 2015. Department of Horticulture, Iowa State University, Ames, IA, USA.

<u>Title:</u> Current tomato seed management practices among in- and out of school youth in Kamuli, Uganda.

Co-author: Dr. Gail Nonnecke.

Norman Borlaug lecture poster competition for graduate and undergraduate students; World Food Issues. Fall, 2014. Iowa State University, Ames, IA, USA.

<u>Title:</u> Evaluation of tomato cultivars and production systems for better yield and disease tolerance in Kamuli District, Uganda.

Co-authors: Dr. Gail Nonnecke, Dorothy Masinde and Helen Jensen.

Annual Horticulture Research Retreat. Fall, 2014. Department of Horticulture, Iowa State University, Ames, IA, USA.

<u>Title:</u> Evaluating horticultural practices for sustainable tomato production in Kamuli, Uganda.

Co-authors: Dr. Gail Nonnecke, Dorothy Masinde and Helen Jensen.

Norman Borlaug lecture poster competition for graduate and undergraduate students; World Food Issues. Fall, 2012. Iowa State University, Ames, IA, USA.

<u>Title:</u> "Evaluation of tomato cultivars and production systems for better yield and disease tolerance in Kamuli District, Uganda."

<u>Co-authors</u>: Dr. Gail Nonnecke, Amanda Snodgrass, Dennis Lutwama and Dorothy Masinde.

Service learning/school gardening program in Uganda. Summer, 2010.

Makerere University, Kampala, Uganda.

<u>Title:</u> "Agroforestry and health and sanitation among primary school children in Kamuli, Uganda."

<u>Co-authors</u>: Ikendi Samuel, Jacob Hunter, Peninah Nangobi and Katherine Taylor.

SKILL SET

- Seed quality testing (sampling, purity, germination, tetrazolium, seed health) and seedling evaluations
- Designing and implementing scientific field plot experiments
- Designing and implementing scientific laboratory experiments
- Designing and implementing surveys
- Supervising undergraduate students during research
- Designing research posters
- Quantitative and qualitative data analysis and interpretation using statistical packages including SAS, JUMP and SPSS
- Computer proficiency (Microsoft Word, Excel, PowerPoint)
- Proposal and grant writing
- Public speaking and presentation of scientific data/information to other scientists and the public
- Reviewing manuscripts and reports

TEACHING EXPERIENCE

Seed specialist, Makerere University Regional Center for Crop Improvement

Spring, 2020

- Teach CRS 8203, 3 credits: Seed Science and Seed Systems
- Provide guidance and mentoring for graduate students wishing to pursue MSc and PhD thesis work in seed systems
- Assist with teaching and supervision of graduate students as part of MaRCCI support to the Department of Agricultural Production

Graduate Teaching Assistant, Iowa State University

Global Resource Systems: GRS 201, 3 Credits

- Assisted with instructing approximately 40 students each semester
- Taught students to conduct a comparative analysis of global resources and the various natural and human systems affecting those resources
- Graded individual reports, exams and guizzes
- Actively held office hours
- Developed grading rubrics and assisted students understand these
- Provided feedback to students
- Attended each class and recorded attendance

Global Resource Systems Study Abroad Course Preparation: GRS 495-UG, 1 cr.

Spring 2013 - 2019

- Co-teach a course preparing undergraduate students to travel to Uganda to be part of a service learning and school gardening program.
- Teach students with cultural and technical concepts required to live and work in a developing country.

Service learning: GRS 494- UG, 4 credits

- Co-lead a team of about 16 undergraduate ISU students to Uganda to participate in a service learning and school gardening program.
- Assist students in creating and working through bi-national team projects including agroforestry, irrigation, health and sanitation, beekeeping, composting, school gardening.

Spring 2013,2014,2015

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Summer 2013 - 2019

TEACHING EXPERIENCE CONTINUE	TEACHING	EXPERIENCE	CONTINUED
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Independent Study-Service Learning: GRS 490- Z, 1 credit

Fall 2013 - 2019

- Co-teach a semester long post study abroad course to ISU undergraduate students after they return from Uganda.
- Prepare students to give a University-wide seminar about their study abroad experience.
- Assist students with developing and presenting posters about their binational team projects.

AFFLIATIONS.	LEADERSHIP	, AND SERVICE

2018 – Present
2017 – present
2016 – present
2015 - 2019
2015 – present
2013 - 2014
2009 - 2010

GRANTS AND SCHOLARSHIPS

Consultancy: Capacity skills needs assessment, establish occupational standards,	June 2021 to date
and develop a sector skills strategy and plan for the agriculture sector in Uganda	
Borlaug poster competitions	Fall, 2015, 2016, 2018
American Society for Horticultural Sciences (ASHS) travel grant	Summer, 2016
Department of Horticulture scholarships and travel grant	2016, 2017, 2018, 2019
Dean of Agriculture and Life Sciences Global Funding for Graduate Students	Summer 2015
Global Food Security Consortium	Summer 2015
·	Total. USD 359.425

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ONORS AND AWARDS		
•	Graduate teaching excellence award, Graduate College, ISU.	Aug. 2019
•	Selected to participate in a Seed Science and Technology short course. Iowa State University Seed Technology and Business.	Nov. 2017
•	Norman Borlaug lecture poster competition for graduate and undergraduate	
•	students, Iowa State University. o First place, graduate poster o Second place, graduate poster o Third place, graduate poster o Third place, graduate poster Annual Horticulture Research Retreat Award for Graduate Students, Iowa	Oct. 2018 Oct. 2016 Oct. 2015 Oct. 2014
	State University.	
	 Third place 	Nov. 2015
	o Third place	Oct. 2014

SUBMITTED PROPOSALS	
 Jointly submitted PASET Regional Scholarship Innovation Fund. Possible funding for 10 PhD students. Submitted to ICIPE 23 November 2020. 	USD 1,000,000
 Jointly submitted a proposal to NARO: Improving and out-scaling innovative seed delivery models for increased availability of quality oil seed crops (groundnuts and soybean) among value chain actors in northern 	USD 200,000
Uganda	
 Jointly submitted a proposal to Makerere University Research and Innovation Fund: Improving Livelihoods of Small-Scale Producers in Uganda Through Digital Advisory Services 	UGX 200,000,000