

CURRICULUM VITAE

PERSONAL INFORMATION

Full Name/Title: Dr. James Biriiah Ndiso
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ACADEMIC AND PROFESSIONAL BACKGROUND

PhD in Agronomy, University of Nairobi, Kenya: Jan 2011 – Dec 2015. Thesis title: Enhancing performance of maize-cowpea based cropping systems in Coastal Lowland Kenya through stress resilient varieties and soil moisture conservation practices.

Masters of Science degree in Agronomy, Egerton University, Kenya: Sept 2004 – Dec 2009. Thesis title: Characterization of Plant Morphology, Drought Tolerance and Resistance to Storage Pests in Local Coastal Maize Landraces in Kenya.

Bachelor of Science degree in Agriculture Upper Second, University of Eastern Africa, Baraton, Kenya Sept 1994 - July 1997. Fourth year Research Project title: Enhancing the sweetness of local maize varieties for green maize roasting through hand pollination.

Diploma in Animal Husbandry, Egerton College Njoro, Kenya. Sept 1983 to Dec. 1986. Third year research project title: Feeding of poultry wastes to lactating Tongenbug goat to enhance milk yield in Njoro, Kenya.

EMPLOYMENT HISTORY

Dec. 2015 - To date – Lecturer, Crop Sciences Department, School of Agricultural Sciences and Agribusiness, Pwani University.

Jan. 2013 – Nov. 2015 – Assistant Lecturer, Crop Sciences Department, School of Agricultural Sciences and Agribusiness, Pwani University.

Nov. 2009 – Dec. 2012 – Assistant Lecturer, Crop Sciences Department, School of Agricultural and Environmental Sciences, Pwani University College.

Jul. 2007 – Oct. 2009 – Teaching Assistant, Department of Agricultural Sciences, School of Pure and Applied Sciences, Pwani University College.

Jul. 1987 – Jun. 2007 – Tutor, Animal Sciences Department, Kilifi Institute of Agriculture

DUTIES AND RESPONSIBILITIES

1. Lecturing, training and conducting research.
2. Writing fundable proposals to external and internal research funds and conducting impact driven research.
3. Program Leader – BSc. Dryland Agriculture and MSc. Agronomy
4. Supervising both Graduate and Undergraduate students.
5. Mentoring and advising undergraduate and post graduate students.
6. **Secretary Ethics Review Committee** – Organizing the activities of ERC; calling meetings, taking minutes and handling communication coming and going out of the office and data management of ERC information.
7. Carrying out research and outreach activities that impact on communities e.g. Visiting Kayanda Farmer field School.
8. Any other duties as may be specified by the COD, Crop Sciences Department.
9. Chairman – PU- Complaints Handling Committee
10. National Rural Mater Trainer in Farmer Field School Methodology- Master trainer

AWARDS

1. Food and Agricultural Organization (FAO) - Consultancy on developing climate smart modules for Kenya, Uganda and Ethiopia. Sept to Oct 2019.
2. Pricewaterhouse Coppers (Pwc) - Consultancy on value addition of mango production in Kilifi and Tana River Counties. March to June 2018.
3. PhD in Agronomy Research Grant of Ksh. 840,000.00 from National Commission for Science, Technology and Innovation (NACOSTI). 2012 – 2014.
4. PhD in Agronomy Research Grant of Ksh. 500,000.00 from Pwani University College. 2011 – 2013.
5. Masters in Agronomy Research Grant of Ksh. 600,000.00 from International Maize and Wheat Improvement Centre (CIMMYT). 2005 – 2007

UNDERGRADUATES STUDENTS SUPERVISION

All fourth year who did research projects in agriculture (KAG B401 Research Projects). This is a unit offered to all fourth years doing BSc. Agric, Agric Enterprise, Resource Management, Dryland Agriculture, and Horticulture. Semester one is proposal writing and Semester two is implementation of the proposal. (Supervised over 700 students between 2015 – 2020)

POSTGRADUATE STUDENT SUPERVISION

Graduated Students

1. **Davis Kiambi Kaimenyi.** (2018). Thesis Title: Metagenomic barcoding of microbiomes from seagrass found in Coastal Kenya using 16S rRNA sequencing.

With 2020 Letter of Award, to Graduate this year 2021

2. **Joel Muwera Ngala.** Effect of neem leaves, seaweed, cashewnut leaves and wood shaving mulches on soil properties, growth and yield of Amaranthus in Kilifi County, Kenya.
3. **Consolata Muindi.** Effect of Zinc application methods on green grams growth, yield and nutrient dynamics in Kwale County, Kenya.

Writing PhD thesis

4. **Mercy K. Rewe.** Registration Number A/103/PU/6650/18. Utilization of coffee pulp and cowdung bioslurry as fertilizers in enhancing climate change resilience of local communities in Kiambu County, Kenya.

Collecting Data

5. **Stanley Ngaanga.** KG20/PU/36013/18. Evaluation of plant population density and spatial arrangement on growth and yield of maize and Okra intercropping system in Kilifi County, Kenya

Proposal Writing

6. **Omar Kiponda**, Registration Number KG20/PU/36288/17. Effects of zinc, sulphur and potassium on growth and yield of maize at the coast region.

Appointment as Internal Examiner of Master's Thesis

7. Annah Wanjala Mnyika, Registration Number A103/IB/6086/15. Effect of irrigation regime, supper –absorbent polymer and rabbit manure on growth and yield of egg plant (*Solanum melongna* L.) in Kilifi County.
8. Martin Maluki, Registration Number A99/PU/6002/15. Integrated effects of NPK fertilizer, cattle farm yard manure and leaf harvesting frequency on soil and performance of butternut in Coastal, Kenya.
9. Hamisi Tsuma Mkuzi, Registration number MG20/PU/36061/16. Evaluation of land tenure systems and land cover use change on Taita Hills Forest fragments: A case study of Ngerenyi area, Taita Taveta County.
10. Leah Andisi Akula, Registration Number A103/IB/6168/15. Evaluation of the yield potential of Nerica 10 Rice (*oryza sativa* L) variety under selected plant densities in Taita Taveta County.
11. Benard Maiga. Registration Number A103/PUC/2091/12. Effect of organic and inorganic fertilizer on growth and quality of watermelon in Coastal Kenya.

PUBLICATIONS

Publications since last promotion

1. Annie Hilda Ong'ayo^{1,*}, **James Biriach Ndiso**. **2020**. Social and Cultural Factors Influencing Gender Disparity in Farmers Field Schools Approach among Smallholder Farmers in Kilifi North Sub-County, Kilifi County. *Universal Journal of Agricultural Research* 8(5): 158-164, 2020. <http://www.hrpub.org>. DOI: 10.13189/ujar.2020.080503
2. Consolata Mueni Muindi, **James Biriach Ndiso** and Esther Mwende Muindi. **2020**. Effect of Zinc Application Method on Growth and Yield of Green Grams. *International Journal of Agriculture, Environment and Bioresearch* Vol. 5, No. 01; 2020 ISSN: 2456-8643. www.ijaeb.org Page 140. <https://doi.org/10.35410/IJAEB.2020.5466>.
3. Ngalla JM., **Ndiso JB.**, and Muindi EM. **2019**. Effect of selected organic mulches on growth and yield of Amaranthus in Kilifi, Kenya. *International Journal of Agriculture, Environment and Bioresearch*. Vol. 4 (6): 229-236.
4. Esther Mwende Muindi^{1*}, Consolata Mueni Muindi¹ and **James Ndiso**. **2019**. The Effects of Combining Farm Yard Manure, Starter Nitrogen, Phosphorus and Zinc on Growth and Yield of Green Grams. *Journal of Agriculture and Ecology Research International* 20(4): 1-9; Article no.JAERI.53943 ISSN: 2394-1073
5. Kaimenyi DK. De Villies EP, Ngoi J. **Ndiso JB.** De Villies SM. **2018**. Microbiome of two predominant seagrass species of Kenyan Coast, *Enhalus acoroides* and

6. **Ndiso J.B.**, Cheminingwa G.N., Olubayo F.M. and Saha H.M. **2018**. Effect of N-fertilizer application on soil moisture content, canopy temperature, growth and yield of maize- cowpea intercrops. *Journal of Advanced studies in Agricultural, Biological and Environmental Sciences* (JABE). Vol. 5(2): 62 – 78. ISSN:2455-0221(P), 2394-2606(O)
7. **Ndiso J.B.**, Cheminingwa G.N., Olubayo F.M. and Saha H.M. **2018**. Effect of different farmyard manure levels on soil moisture content, canopy temperature, growth and yield of maize – cowpea intercrops. *Journal of Advanced studies in Agricultural, Biological and Environmental Sciences* (JABE). Vol. 5(3): 5 – 21. ISSN: 2455-0221(P), 2394 – 2606(O)
8. **Ndiso J.B.**, Cheminingwa G.N., Olubayo F.M. and Saha H.M. **2017**. Effect of variety and insecticides spray application on pest damage and yield in Cowpea. *International Journal of Agricultural Sciences*. ISSN 2167-0447 Vol.7 (2), pp.1248 – 1257.
9. **Ndiso J.B.**, Cheminingwa G.N., Olubayo F.M. and Saha H.M. **2017**. Effect of Cropping system on soil moisture content, canopy temperature, growth and yield performance of maize and cowpea. *International Journal of Agricultural Sciences*. Vol. 7(3): 1271 – 1281. ISSN 2167 – 0447.
10. **Ndiso, J. B;** Mugo, S; Kibe, A. M; Pathak, R. P. **2017**. Screening Kenya Local Coastal Maize Landraces for Resistance to Maize Weevil (*Sitophilus Zeamais Motschulsky*) and Larger Grain Borer (*Prostephanus Trucates*). *International Journal of Plant Research*. 7(1): 5 – 11.
11. **Ndiso J.B.**, Cheminingwa G.N., Olubayo F.M. and Saha H.M. **2016**. Effects of drought stress on canopy temperature, growth and yield performance of cowpea varieties. *International Journal of Plant and Soil Science*. 9(3): 1 – 12.
12. **Ndiso J.B.**, Cheminingwa G.N., Olubayo F.M. and Saha H.M. **2016**. Participatory selection of cowpea varieties in Kilifi County of Kenya. *International Journal of Plant and Soil Science*. 9(3): 1 – 10.

Earlier publications

13. **Ndiso. J.B. 2014**. Characterization of local coastal maize landraces in Kenya. Lambert Academic Publishers. ISBN-13: **978-3-659-61465-1**. ISBN-10: 3659614653. EAN: 9783659614651
14. **Ndiso, J. B;** Mugo, S; Kibe, A. M; Pathak, R. P. **2013**. Phenotypic Diversity in local coastal Maize Landraces in Kenya, *International Journal of Agricultural Sciences* ISSN: 2167-0447 Vol. 3(10): 053 – 069.
15. **Ndiso, J. B;** Kibe, A. M; Mugo, S; Pathak, R. P. **2012**. Influence of drought stress on growth, yield and yield components of selected maize genotypes in coastal lowland Kenya. *International Journal of Agricultural Sciences* ISSN: 2167-0447 Vol 2(6), pp, 178 – 185.
16. **Ndiso, J. B;** Kibe, A. M; Mugo, S; Pathak, R. S; Likhayo, P. **2008**. Screening Kenyan Coastal Maize Landraces for Drought Stress Tolerance and Storage Pest Resistance. *Egerton, Journal of Science and Technology*. 8: 10 - 28.

CONFERENCE PROCEEDINGS

1. **Ndiso, J.B.**, Mugo, S., Kibe, A.M. and Pathak. **2011**. Influence of drought stress on growth, yield and yield components of selected maize genotypes in coastal lowland Kenya. Proceedings of 2011 JKUAT Scientific, Technological and Industrial Conference. Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya. 16th – 18th November 2011. ISBN 9966-923-28-4
2. **Ndiso, J. B.** Kibe, A. M. Pathak, R. S. and Mugo, S. **2008**. Phenotypic Diversity for Morphological traits in Kenyan Local Coastal Maize Landraces. Insect Resistant Maize for Africa (IRMA) Project. IRMA Project End of Phase II Conference. “*Consolidating Experiences from IRMA I and II: Achievements, Lessons and Prospects*” 28 – 30 October 2008.
3. **Ndiso, J. B.** Kibe, A. M. Pathak, R. S. and Mugo, S. **2008**. Phenotypic Characterization of Kenya Local Coastal Maize Landraces. Insect Resistant Maize for Africa (IRMA) Project. IRMA Project End of Phase II Conference. “*Consolidating Experiences from IRMA I and II: Achievements, Lessons and Prospects*” 28 – 30 October 2008.
4. **Ndiso, J. B;** Mugo, S; Kibe, A. M; Pathak, R. S; Likhayo, P. **2007**. Characterization for Phenotypic Drought Tolerance and Resistance to Storage Pests in Local Coastal Maize Landraces in Kenya. *African Crop Science Conference Proceedings* Vol. 8: 245 – 250.

SHORT COURSES ATTENDED

1. **2019**. Season Long Master Trainer Course held at Pwani University from April 2019 to August 2019. Organized by FAO and Pwani University.
2. **2019**. International AfriPlantSci Workshop on Biotechnology. At Pwani University from 3rd to 13th April 2019.
3. **2019**: Certificate course in Research Ethics for Institutional Ethics Review Committees organized by National Commission for Science, Technology and Innovation at Egerton University from 30th April to 3rd May 2019
4. **2017**: Certificate of participation in Public Health and Clinical Ethics course organized from 6th to 9th December 2017; Public Health and Clinical Ethics Practicum organized from 4th to 5th December 2017; Research Ethics Certificate Course from 27th to 30th November 2017; Research Ethics Practicum from 20th to 24th November 2017 all organized by CBEC KEMRI-Bioethics Training Initiative held at KEMRI Headquarters Nairobi.
5. **2016**: Certificate of attendance in Institutionalizing Ethics Review of Health Research organized by the South African Research Ethics Training Initiative in collaboration with the KEMRI-Welcome Trust Research Program from 30th to 3rd June 2016;
6. **2015**: The 2nd Ethics Teachers Training Course organized by UNESCO from 10th to 14th August
7. **2015**: Bioethics and good clinical practice organized by Kenya Aids Vaccine Initiative from 1st to 3rd October 2014;
8. **2014**: Critical appraisal of research proposals training workshop organized by University of Nairobi from 16th to 20th June 2014 and

MEMBERSHIP TO PROFESSIONAL BODIES

1. Member of Bioethics Society of Kenya
2. Member of the Kenya Society for Agricultural Professionals (KESAP)

COMMUNITY SERVICE

1. Master Trainer (MT) for Homa bay County, National Agricultural Rural Inclusive Growth (NARIG) Project Training 100 Community Facilitators to establish Farmer Field Schools in Homa bay. **Feb 2020 to Feb 2021.**
2. Lay Member, Malindi District Pentecostal Assemblies of God Kenya, Member of the Executive Committee from May **2019 to date** (Serving first term)
3. Chairman of Board of Management (BOM) of Mdzongoloni High School in Tezo Kilifi County. **2016 to Date** (Serving second term).
4. Chairman Education Sub-Committee Mnarani Secondary School Board of Management Kilifi County. **2016 to Date** (Serving second term)
5. Member of the Regional Board of the Fellowship of Christian Union Students (FOCUS), Coast Region. **2015 to Date** (Serving second term)
6. Patron, Pwani University Christian Union Fellowship. **2015 to Date** (Serving third term)

REFEREES

1. Prof. G. Chemining'wa.
Dean, Faculty of Agriculture, University of Nairobi.
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Kangemi, Nairobi
2. Prof. M. Mlewa
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