

CURRICULLUM VITA

NAMES IN FULL: Mustapha Alhaji MUHAMMAN
DATE OF BIRTH: 27th October, 1974
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mustaphamuhamman@fukashere.edu.ng
PHONE NUMBER: +234 (0) 8080619672; +234 (0) 8161766351
MARITAL STATUS: Married with Children
PRESENT POSTAL ADDRESS: Dept. of Agronomy, Federal University of Kashere,
P. M. B. 0182, Gombe State.

EDUCATIONAL INSTITUTIONS ATTENDED WITH DATES

1. Bayero University, Kano (BUK) - 2008 - 2013
2. Federal University of Technology Yola (FUTY) - 2004 - 2007
3. Federal University of Technology Yola (FUTY) - 1992 - 1999
4. Government Secondary School, Maiha, Adamawa State - 1984 - 1989
5. College of Education Jalingo, Taraba State (SSCE) - 1991
6. School of Health Tecnology, Mubi, Adamawa State (NABTEB) - 2008
7. Pegin, Gurdufe Primary School, Maiha L.G.A., Adamawa State -1979 - 1984

Others:

8. FUTY, Consultancy Services - 1997
9. FAO/FDA/IAR – ABU, Zaria, Kaduna State, Nigeria - 2003
10. BUK - 2009
11. Academic Staff Union of Universities (ASUU) - 2014
12. TETFund & Spectrum Engineering Limited - 2016
13. AGORA & Research4Life - 2019
14. FAO & CTA - 2019
15. Federal University of Kashere, Gombe State, Nigeria - 2019
16. Digital Bridge Institute - 2020
17. ICDL & Oaystech Nigeria Limited - 2020
18. TETFund & ICDL - 2020
19. NUC (Virtual Institute for Capacity Building in Higher Education,
VICBHE) & NOUN - 2022
20. NUC (VICBHE) & NOUN - 2022
21. NUC (VICBHE) & NOUN - 2022
22. NUC (VICBHE) & NOUN - 2022
23. TETFund - 2023

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| 24. NUC (VICBHE) & NOUN | - 2024 |
| 25. NUC (VICBHE) | - 2024 |
| 26. NUC (VICBHE) | - 2025 |

QUALIFICATIONS OBTAINED WITH DATES

- | | |
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| 1. PhD, Agronomy | - 2013 |
| 2. M. Tech. in Agronomy | - 2007 |
| 3. B. Agric. Tech. (Hons), Crop Production & Horticulture | -1999 |
| 4. General Certificate of Education (GCE) | - 1989 |
| 5. Senior School Certificate of Education (SSCE) | -1991 |
| 6. NABTEB Certificate | - 2008 |
| 7. First School Leaving Certificate | - 1984 |
| <i>Others:</i> | |
| 8. Higher Cert. Computer Information Technology | - 1997 |
| 9. Certificate of Fruit Tree Propagation and Nursery Management | - 2003 |
| 10. Certificate of Attendance, Computer Appreciation | - 2009 |
| 11. Certificate of Attendance, Leadership Training Workshop | - 2014 |
| 12. Certificate of Participation, the Nigerian Universities Electronic Teaching and Learning Platform | - 2016 |
| 13. Certificates of Achievement & Attendance, Fundamentals of Information Literacy & Access to Global Online Research in Agriculture (AGORA) | - 2019 |
| 14. Certificates of Achievement & Attendance, Farm Data Management Sharing & Services for Agriculture Development | - 2019 |
| 15. Certificate of Attendance on Fattening | - 2019 |
| 16. Certificate of Attendance, Advanced Digital Appreciation Programme for Tertiary Institutions | - 2020 |
| 17. Certificate of Completion, Base Module Certification Course | - 2020 |
| 18. Certificate of Attendance, ICDL training | - 2020 |
| 19. Certificate, Theory, Practice, and Future of Academic Planning in University Education | - 2022 |
| 20. Certificate, Development and Use of Management Dashboards for Academic Planning | - 2022 |
| 21. Certificate, Theory and Practice of Strategic Planning and Implementation | - 2022 |

22. Certificate of Development & Implementation of University Law - 2022
23. Certificate of Participation, Effective Grant Management Post Award - 2023
24. Certificates of Training on Artificial Intelligence (AI) for Teaching,
Research and Community Service - 2024
25. Certificate of Writing Grant – Winning Proposals & Fund Raising - 2024
26. Certificate of Proficiency in Cybersecurity - 2025

DETAILS OF WORKING EXPERIENCE AND POSITION HELD

1. SIWES Student, Adamawa State Min. of Agric., Produce Div., Mubi South L.G.A. -1997
2. Teacher, Molusi College, Ijebu-Igbo, Ijebu North L.G.A., Ogun State, Nig., - 1999 – 2000
3. Teacher (MGII), Govt. Sec. Sch. Maiha, Adamawa State - 2001 – 2002
4. Assistant Lecturer, Adamawa State University, Mubi (ADSU, Mubi) - 2002 – 2007
5. Lecturer II, ADSU, Mubi - 2007 – 2010
6. Lecturer I, ADSU, Mubi - 2010 – 2013
7. Senior Lecturer, ADSU, Mubi - 2013 – 2015
8. Reader in Agronomy, Federal University, Kashere (FUK) - 2015 - 2018
9. Visiting Senior Lecturer, University of Maiduguri - 2015 – 2016
10. Visiting Reader, University of Maiduguri - 2016 – 2019
11. Professor of Agronomy, FUK - 2018 – Date
12. Sabbatical Professor, Modibbo Adamawa University, Yola - 2025
13. Member, 3rd University Governing Council, FUK - 2022 – 2023
14. Deputy Vice Chancellor Administration, FUK - 2020 – 2022
15. Dean, School of Postgraduate Studies, FUK - 2022 – 2024
16. Coordinator, Steering Committee, Centre of Excellence for Sugar Research
and Development, FUK - 2021 – Date
17. Deputy Dean, Faculty of Agriculture, FUK - 2017 – 2020
18. Deputy Director, Academic Planning, ADSU, Mubi - 2015
19. Sub-Dean, Faculty of Agric., FUK, - 2016 – 2018
20. Head of Department, Agronomy, FUK - 2018 – 2021
21. 400 Level Coordinator, Faculty of Agric., FUK - 2015 – 2016
22. Department Coordinator, ADSUCONS Academic Services - 2007
23. SIWES Coordinator, Department of Crop Science, ADSU, Mubi - 2012 – 2015
24. PG & Seminar Coordinator, Department of Crop Science, ADSU, Mubi - 2013 – 2015
25. Corps Liaison Officer, Ijebu North L.G.A., Ogun State, Nigeria - 1999 – 2000
26. PRO, Al Nur Agro Consult -2006 – 2016

27. Financial Sec., National Executive Council, Crop Science Soc. of Nig. (CSSN) - 2023 – Date
28. Internal Auditor, Committee of Provost & Deans of Postgraduate Colleges
and Schools of Nigerian Universities (CPDPGCS) - 2024 – 2025
29. Chairman, Welfare Committee, Faculty of Agric., ADSU, Mubi - 2007
30. Chairman, Furamane Bamako Initiatives, V/Pakka District, Maiha L.G.A. - 2006 – 2008
31. Chairman, Prima Facie Investigation Committee, FUK - 2016
32. Chairman, ADHOC Junior Staff Disciplinary Committee, FUK - 2016 – 2017
33. Chairman, Junior Staff Disciplinary Committee, FUK -2017 – 2021
34. Chairman, Faculty Seminar Committee, Faculty of Agric., FUK - 2016 – 2018
35. Convener (Chairman), Pension and Life Insurance Committee, ASUU, FUK - 2017
36. Convener (Chairman), Electoral Committee, ASUU, FUK - 2017
37. Chairman, AD – Hoc Committee to Ascertain the Class of Degree &
Causes of Delay in Profiling Students for Graduation, FUK - 2019
38. Chairman, Committee on Investigation of Absence from duty without
permission, Holding dual pensionable appointments & forgery of official
document by a Staff in FOE, FUK - 2021
39. Chairman, AD – HOC Committee on Special Loan Recovery, FUK - 2021
40. Chairman Ad-hoc Committee for Verification of Junior Staff Certificates, FUK - 2021
41. Chairman, Ad-hoc Misconduct Committee, FUK - 2021
42. Chairman, Academic Board, School of Preliminary & General Studies, FUK, - 2021 – 2022
43. Chairman, Ad-hoc Committee on Visitation Panel to FUK - 2021
44. Chairman, Medical Board, FUK. - 2021 – 2022
45. Chairman, Minor Works and Purchase Committee, FUK - 2021 – 2022
46. Chairman, University Primary Board, FUK - 2021 – 2022
47. Chairman, Fact-Finding Committee on the Status of Univ. Quarters, FUK - 2021
48. Chairman, Committee to Review Strategic Plan of the University, FUK - 2022
49. Chairman, Comm. on the Acquisition of a Befitting Property in Abuja for FUK - 2022
50. Chairman, LOC, 8th Annual Conference & General Meeting of CSSN, FUK, - 2023
51. Chairman, Technical Comm., 8th Annual Conf. & General Meeting, CSSN, FUK - 2023
52. Chairman, Central Appraisal & Promotion Committee, FUK - 2020 – 2022
53. Chairman, CSSN Young Academic Research Grant Committee - 2023 - Date
54. Member, Curriculum Dev. Committee, Dept of Crop Production, ADSU, Mubi - 2003
55. Member, Committee on Examination Malpractices, ADSU, Mubi - 2006/2007 Session
56. Member, Department Board, ADSU, Mubi - 2003 – 2015

57. Member, Faculty Board, ADSU, Mubi - 2003 – 2015
58. Member, Faculty Business Committee, ADSU, Mubi - 2012 – 2015
59. Assistant Editor, ADSU Journal of Agricultural Sciences - 2013 – 2015
60. Member, Fac. of Agric., FUK, Appointment & Promotion Comm - 2016 – Date
61. Member, Faculty A&PC, Faculty of Science, FUK - 2016 – 2019
62. Member, Faculty A&PC, Faculty of Education, FUK - 2017
63. Member, Junior Staff A&PC, FUK - 2016 – 2020
64. Faculty Representative, University Housing Committee, FUK - 2017 – 2020
65. Member, Undergraduate Curriculum Review & Postgraduate Curriculum Development Committee, Dept. of Agronomy, FUK - 2018
66. Member, Mock Accreditation Committee, Faculty of Agric., FUK - 2016 – 2019
67. Senate Member, FUK - 2016 – Date
68. Senate Rep. to Council Committee on Project Monitoring & Evaluation, FUK - 2017 – 2020
69. Member Senate Committee on TETFUND intervention projects, FUK - 2018 – 2020
70. Member, AD – HOC Committee to Determine the Implication of Deferment of Studies on Residency Period of Studies, FUK - 2020
71. Senate Rep. to Council Committee on Appeals and Disciplinary, FUK - 2018 – 2020
72. Member, FUK Governing Council Ad-hoc Committee to Investigate all Projects of the University - 2021
73. External Examiner, Senior Technologies Promotion, Abubakar Tafawa Balewa University (ATBU), Bauchi - 2022
74. Resource Person, Cowpea Beans Value – chain Stakeholders Sensitization and Capacity Building programme, Federal Ministry of Industries, Trade & Investment - 2024

FULL DETAILS OF TEACHING AND RESEARCH EXPERIENCE INCLUDING NUMBER OF PHD SUPERVISED AND GRADUATED

a. Courses taught

i. Undergraduate

1. AGR 101 - Introduction to Agriculture I, 2002/2003 and 2003/2004 sessions
2. CRP 201 - Climatology and Biogeography, 2003/2004 session
3. CRP 204 - Introduction to Horticulture, 2003/2004 session
4. AGF 201 - Farm Practice I: Irrigation Farming, 2005/2006 session
5. CRP/CPS 302 - Permanent Crop Production, 2005/2006 – 2018/2019 sessions

6. AGF 302 - Farm Practice IV (Crop Production), 2005/2006 and 2006/2007 sessions
7. CRP 301/204 - Arable Crop Production, 2006/2007 to 2014/2015 sessions
8. AGF 412 - Agricultural Meteorology, 2006/2007 session
9. CRP 501 - Crop Husbandry (Veg. & Hort. Crop Prod.), 2007/2008 to 2014/2015 sessions
10. CRP 507 - Physiology of Crop Production, 2012/2013 to 2014/2015 sessions
11. CSP 406/AGN5208 - Seed Production Technology, 2013/2014 to 2016/2017 sessions
12. CRS 501 - Cropping System, 2015/2016 – date
13. CRS 501 - Permanent Crop Production, 2015/2016 session
14. AGN 3203 - Principles of Horticulture, 2015/2016 session
15. AGN 2202 - Principles of Crop Production, 2015/2016 session
16. CRS 510 - Permanent Crop Propagation Production, 2015/2016 session
17. AGN 5201 - Horticultural Crop Production, 2016/2017 sessions– date
18. AGN 5209 - Farming Systems, 2015/2017 sessions– date
19. CPH 515 – Soil fertility and Plant nutrition, 2025 session
20. CPH 597 – Project 1, 2024/2025 session
21. CPH 512- Fruit Crop Production, 2024/2025 session
22. CPH 598 – Project II, 2024/2025 session

ii. Postgraduate

1. CRP 704 - M.Sc. Seminar, 2012/2013 to 2014/2015 sessions
2. CRP 800 - PhD Seminar, 2012/2013 to 2014/2015 sessions
3. CRS 802 - Advanced Crop Production, 2014/2015 and 2015/2016 sessions
4. AGN 8312 - Advanced Crop Growth Analysis, 2021/2022 session – date
5. CRS 819/AGN8309 - Crop Responses to Environment (M.Sc.), 2014/2015 session – date
6. AGN9305 - Artificial Intelligence in Agriculture, 2023/2024 session – date
7. CPH 705 - Advanced Crop Physiology, 2024/2025 session
8. CPH 715 – Tropical Grain Production, 2024/2025 session
9. CPH 743 – Postharvest Physiology of seed, 2024/2025 session
10. CPH 714 – Fertilizer Technology and Use, 2024/2025 session
11. CPH 910 – Advanced Growth Analysis, 2024/2025 session
12. CPH 904 – Advanced Crop Production, 2024/2025 session

b. Project, Dissertation and Thesis Supervised

i. Federal University of Kashere, Gombe State

1. MOHAMMED Idris (SPS/23/PhD/AGR/0002). Performance of Barley (*Hordeum vulgare* L.) varieties as influenced by N, P and K levels in the Sudan Savanna Agro – ecological zone of Nigeria. PhD thesis
2. ZULYADAINI Haruna (SPS/23/PhD/AGR/0003). Impact of Organic and Inorganic fertilizer on the performance of Broccoli (*Brassica oleraceae* L. var. Italica). PhD thesis
3. Idris Mohammed (SPS/19/M.Sc./AGR/007). Response of Potato (*Solanum tuberosum* L.) Varieties to Different Rates of Farmyard Manure in Gombe, Sudan Agro-Ecological Zone of Nigeria. M.Sc. Agronomy Dissertation, 2023.
4. Suleiman Bani Maryam (SPS/19/BIO/MSC/0003). Assessing the Effectiveness of *Moringa oleifera* LAM. Shoot Extract in Managing Moisture Stress and Enhancing the Performance of Okra (*Abelmoschus esculentus* L. Moench.). M.Sc. Biology Dissertation, 2024.
5. Ali Alhaji (SPS/19/AGR/MSC/0009). Effect of Poultry Manure and NPK (15 – 15 – 15) fertilizer on the Growth and Yield of Watermelon (*Citrillus lanatus*) under irrigation in Kwadon, Gombe State. M.Sc. Agronomy Dissertation, 2025
6. BADIYA Abubakar Umar (SPS/20/AGR/MSc/0008). Performance of Barley (*Hordeum vulgare* L.) varieties as influenced by Irrigation frequency in Sudan and Sahelian zones of Nigeria. M.Sc. Agronomy Dissertation, 2025

ii. Adamawa State University, Mubi, Adamawa State, Nigeria

1. Samuel Ruth (PGM/CRP/13/7011). Response of Maize (*Zea mays* L.) to Different Rates of Nitrogen and Cowdung in Mubi, Adamawa State. M.Sc. Crop Science (Crop Physiology and Production) Dissertation, 2015.
2. Zakari Yusuf (PGD/CRP/13/6012). Effect of Spacing and Cultivars on the Growth and Yield of Okra (*Abelmoschus esculentus* L. Moench) in Mubi, Northern Guinea Savanna, Nigeria. Postgraduate Diploma in Agriculture Project, 2015.
3. Luka Buba (FAG/PGDA/06/002). Effect of Nursery Performance of Hot Pepper (*Capsicum frutescens*) as Influenced by Growth Media, Cowdung, Poultry Droppings, and NPK in Mubi, Adamawa State, Nigeria. Postgraduate Diploma in Agriculture Project, 2009.
4. Adamu Johnson (02/120345). Effect of NPK Fertilizer on the Growth and Yield of Tomato (*Lycopersicon lycopersicum* Mill.) in Mubi, Adamawa State, Nigeria. B. Agric. Crop Production Project, 2008.
5. Anthony Albert (03/120027). Evaluation of Integrated Nutrient Management on Nursery Performance of Hot Pepper (*Capsicum annum* L.) in Mubi, Adamawa State. B. Agric. Crop Production Project, 2008.

6. Kwada Bulus (07/120005). Comparative Efficacy of Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Coconut (*Cocos nucifera* L.) Milk on the Performance of Pawpaw (*Carica papaya* L.) Seedlings. B. Agric. Crop Production Project, 2013.
7. Abdul-Qadir Abubakar Sadiq (08/120014). Effects of Nitrogen Fertilizer with and without Cowdung on Maize (*Zea mays* L.) and Some Selected Chemical Properties in a Pot Experiment B. Agric. Crop Production Project, 2013.
8. Abubakar Baba Ba'aba (11/S/130019). Introduction of ICSV 111 Sorghum Variety among Farmers in Baram Karauwa of Jere Local Government Area of Borno State, Nigeria. B. Agric. Extension and Innovation Project, 2015.
9. Adamau Umaru (10/120012). "Response of Groundnut (*Arachis hypogea* L.) Varieties to NPK (15–15–15) Fertilizer as a Starter Dose on the Marginal Soils of Mubi, Northern Guinea Savanna. B. Agric. Crop Production Project, 2016.
10. Rabi Barde (11/120007). Performance of Some Groundnut (*Arachis hypogea* L.) Varieties with Nitrogen Fertilizer as a Starter Dose in the Marginal Soils of Mubi, Northern Guinea Savanna of Nigeria. B. Agric. Crop Production Project, 2016.
11. Adamu Florence (1050/2004). Comparative Efficacy of NPK Fertilizer, Cowdung, and Cotton-Seed Cake on Nursery Performance of Sweet Pepper (*Capsicum annum* L.). Project, 2004.

iii. University of Maiduguri

1. Mustapha Garba Satomi (09/02/01/079). Effect of NPK (15–15–15), Rice Bran, and Cotton Seed Cake on the Performance of Amaranthus (*Amaranthus caudatus* L.). B. Agric. Crop Production Project, 2016.
2. Umar Grema Sheriff (09/02/01/176). Influences of Fertilizer Sources (Urea, Cotton Seed Cake, and Rice Bran) on the Performance of Amaranthus (*Amaranthus spp.*) under Cold Weather of Maiduguri. B. Agric. Crop Production Project, 2016.
3. Abubakar Muazu (12/02/01/203). Effect of Aqueous Extract of *Moringa oleifera* Lam. and Coconut Water in Inducing Germination and Emergence of Date Palm (*Phoenix dactylifera* L.). B. Agric. Crop Production Project, 2017.
4. Victoria Sule Yaki (13/02/01/010). Effect of Seed Pre-Treatment in the Breaking of Dormancy in Date Palm (*Phoenix dactylifera* L.). B. Agric. Crop Production Project, 2017.

c. Projects, Dissertation and Thesis Examined

1. External Examiner, Undergraduate Programme, Dept of Crop Production and Horticulture, Modibbo Adama University of Technology, Yola, Adamawa State, 2021 – 2022
2. External Examiner, Three MSc. Dissertations, BUK, 2016

3. External Examiner, Three MSc. Dissertations, BUK, 2017
4. External Examiner, One PhD Thesis, University of Maiduguri, 2021
5. External Examiner, One PhD Thesis, Ahmadu Bello University, Zaria, 2023
6. External Examiner, Three MSc. Dissertations, BUK, 2025

d. Conferences and Workshop Attended, and presented papers

1. FAO/FDA/IAR – ABU, Zaria, *Workshop on Fruit Tree Propagation and Nursery Management*. ABU, Zaria, 2003.
2. Challenges of Environmental Sustainability in a Democratic Government. *EBAN*, 2003. FUTA, Ondo State, Nigeria, 2003.
3. Environment, Culture & Wealth Generation. *EBAN*, 2004. UNAAB, Ogun State, Nigeria.
4. Weed Management Needs in Nigeria in the Context of the Millennium Development Goals. *WSSN*, 2006. UDUS, Sokoto State, Nigeria, 2006.
5. Environment, Values & Policies in Nigeria. *EBAN*, 2006. Lagos State University, Nigeria.
6. Reviving Agriculture for Sustainable National Growth and Stable Democracy. *ASN*, 2006. IAR, Samaru, ABU, Zaria, Nigeria, 2006.
7. Soil and Water Resources Management for Sustainable Environment and Economic Empowerment. *SSN*, 2007. FUT, Yola, Nigeria, 2007.
8. Sesame Farming and Outgrower Programme, organized by *OLAM Nigeria Limited in collaboration with Katsina State Government, Katsina, Nigeria*, 17 October 2008.
9. Sustainable Horticulture for Better Livelihoods. *27th Annual Conference of HORTSON*, Royal Tropicana Hotel, Kano, Nigeria, 11–16 October 2009.
10. Sowing Innovation for Sustainable African Crop Production to Meet Food Security Under Climate Change. *11th African Crop Science Society Conference*, Entebbe, Uganda, 14–17 October 2013.
11. Leadership Training Workshop. *ASUU*, ATBU, Bauchi, 13–14 March 2014.
12. International Conference on Chemical, Environmental and Biological Sciences. Dubai, UAE, 18–19 March 2015.
13. Agrochemicals Management, Administration, and Control. Two-day workshop organized by *Manawasi Investment Limited in collaboration with Adamawa State Local Government Service Commission*, Federal College of Education, Yola, Nigeria, 11–12 June 2015.

14. Horticulture: Nutrition and Wealth Towards National Security. *33rd Annual Conference of HORTSON*, Agricultural Research House, Mabushi, Abuja, 29 Nov. –4 Dec. 2015.
15. 35th Annual Conference of Horticultural Society of Nigeria, Kabba College of Agriculture, ABU, 29 October–3 November 2017.
16. Weed Science Society of Nigeria Conference, Modibbo Adamawa University of Technology, Yola, Nigeria, 2017.
17. Crop Science Society of Nigeria (CSSN) Conference, Federal University of Technology, Owerri, Nigeria, 2019.
18. Crop Science Society of Nigeria (CSSN) Conference, Federal University of Kashere, Gombe State, Nigeria, 2023.
19. Sensitization Workshop on Cowpea Beans Value – chain Stakeholders Sensitization and Capacity Building programme, Fed. Ministry of Industries, Trade & Investment, Gombe, 2024
20. African Crop Science Society Conference, Maputo, Mozambique, 16–19 September 2024.
21. Crop Science Society of Nigeria (CSSN) Conference, Bayero University of Kano, Kano State, Nigeria, October, 2024.

PUBLICATIONS

i. Thesis/Dissertations/Project

1. Mustapha Alhaji MUHAMMAN (SPS/07/AGR/02795). Effect of Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates on the Performance of Some Crops (PhD Agronomy Thesis), 2012.
2. Mustapha Alhaji MUHAMMAN (M.TECH/CP/04/101). Effects of Different Levels of Nitrogen and Phosphorous on the Growth and Yield of Sesame (*Sesamum indicum* L.) in Mubi (M.Tech. Agronomy Dissertation), 2007.
3. Mustapha Alhaji MUHAMMAN (92/112). Response of Nine Cultivars of Bambara groundnut (*Vigna subterranea* L. Verde.) to Root-Knot Nematode (*Meloidogyne javanica*). (B. Agric. Tech. (Hons) Project), 1999.

ii. Articles in Learned Journals

1. Hamid, Y. M., Muhamman, M. A., and Bello, K. (2005). Revolutionizing Agriculture in Nigeria: A Challenge to the Youths. *International Journal of Children in Science and Tech.*, Uni. of Ado Ekiti, Ekiti State, Nigeria. Vol. 3 (1): 43 – 48. ISSN 1597 – 1333.
2. Muhamman, M. A., Kadams, A. M., Gungula, D. T., and Bello, K. (2005). Genetically Modified Crops and Sustainable Agriculture in Nigeria. *Nigerian Journal of Tropical Agriculture*, FUTY, Nigeria. Vol. 7 (2): 227 – 233. ISSN 1595 - 5552.

3. Muhamman, M. A., Polycarp, I. M., Jatau, D. F., Hamid, M. Y., and Goji, T. C. (2005). The Use of Fruit Trees as Strategy for Combating Desertification in Nigeria. *Nigerian Journal of Tropical Agriculture*, FUTY, Nigeria. Vol. 7 (2): 234 – 241. ISSN 1595 - 5552.
4. Jada, M. Y., Jesse, Y. A., Muhamman, M. A., and Tahashi, J. Y. (2005). Comparison of Nematicidal Potentials of Leaf Extract and Carbofuran on Growth and Development of Bambara Groundnut Infested with Root-Knot Nematode (*Meloidogyne javanica*) in Yola. *Journal of Sustainable Development in Agriculture and Environment* (JOSDAE), FUTY, Nigeria. Vol. 1: 119 – 123. ISSN 0794 – 8867.
5. Hamid, M. Y. and Muhamman, M. A. (2006). Cooperatives as an Instrument for Community Development in Nigeria. *Journal of Management and Entrepreneur Development*, Uni. of Calabar, Cross River St., Nig. Vol. 3 (1): 70 – 76. ISSN 1117 – 1677.
6. Muhamman, M. A. and Gungula, D. T. (2006). Cover Crops in Cereal-Based Cropping Systems of Northern Nigeria: Implication on Sustainable Production and Weed Management. *JOSDAE*, FUTY, Nigeria. Vol. 2: 151 – 162. ISSN 0794 – 8867.
7. Bibi, U. M., and Muhamman, M. A. (2007). Appraisal of Tree Planting Programmes in Maiha Local Government Area of Adamawa State, Nigeria. *FUTY Journal of the Environment*. Vol. 2 (1): 109 – 115. ISSN 1518 – 1826.
8. Muhamman, M. A., and Gungula, D. T. (2008). Growth Parameters of Sesame (*Sesamum indicum* L.) as Affected by Nitrogen and Phosphorous Levels in Mubi, Nigeria. *JOSDAE*, FUTY, Nigeria. Vol. 3 (2): 80 – 86. ISSN 0794 – 8867.
9. Bibi, U. M., Muhamman, M. A., Dzarma, S. M., and Shehu, B. M. (2008). Examining the Level of Environmental Awareness Among Rural Communities in Maiha Local Govt. Area of Adamawa State, Nigeria. *Journal of Environmental Research and Policies*. Vol. 3 (3): 45 – 48. ISSN 2006 - 1110.
10. Muhamman, M. A. and Auwalu, B. M. (2009). Seedling Performance of Sweet Pepper (*Capsicum annum* L.) as Influenced by Growth Media and Fertilizer Sources in Northern Guinea Savanna Zone of Nigeria. *Biological and Environmental Sciences Journal for the Tropics* (BEST), Bayero University, Kano, Nig. Vol. 6 (3): 109 – 112. ISSN 0794 - 905.
11. Muhamman, M. A., Gungula, D. T., and Sajo, A. A. (2009). Phenological and Yield Characteristics of Sesame (*Sesamum indicum* L.) as Affected by Nitrogen and Phosphorous Rates in Mubi, Northern Guinea Savanna Ecological Zone of Nigeria. *Emirates Journal of Food and Agriculture*, UAE University, United Arab Emirate: Vol. 21 (1): 01 – 09. <http://efa.uaeu.ac.ae/ejfa.shtml>
12. Muhamman, M. A., Mohammed, S. G., Lado, A., and Belel, M. D. (2010). Interrelationship and Path Coefficient Analysis of Some Growth and Yield Characteristics

- in Sesame (*Sesamum indicum* L.). *Jou. of Agricultural Sciences*, Canada. Vol. 2 (4): 100 – 105. ISSN 1916 – 9752.
13. Muhamman, M. A., Jada, M. Y., and Yusuf, A. U. (2010). Response of Bambara Groundnut (*Vigna subterranea* L. Verde.) Cultivars to Root-Knot Nematode (*Meloidogyne javanica*). *Bayero Journal of Pure and Applied Sciences*. Vol. 3 (2): 119 – 122. ISSN 2006 - 6996.
 14. Muhamman, M. A., Auwalu, B. M., Manga, A. A. and Jibrin, J. M. (2013). Effects of Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates on Some Physiological Attributes and Yield of Tomato. *International Journal of Chemical, Environmental & Biological Sc. (IJCEBS)*. Vol. 1 (1): 67 – 74. ISSN 2320 – 4087 (online).
 15. Kwaga, Y. M., Mohammed, J., Ndahi, W. B., Jonah, M. P., Muhamman, M. A., and Haruna, S. E. (2014). Survey of Weed Management Practices in Irrigated Farming in Mubi Area, Semi-Arid Ecology, Nigeria. *International Journal of Innovative Research and Studies (IJIRS)*. Pp. 313 – 324. ISSN 2319 – 9725.
 16. Muhamman, M. A., Auwalu, B. M., and Mohammed, S. G. (2014). Response of Maize (*Zea mays* L.) to Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates, Part II. *Scientific Papers. Series A. Agronomy*. Vol. LVII: 264 – 271. ISSN 2285-5785. ISSN online 2285 – 5807.
 17. Muhamman, M. A., and Mohammed, S. G. (2014). Effects of Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates on the Contribution of Some Physiological and Yield Attributes to Grain Yield of Sesame (*Sesamum indicum* L.) II. *Scientific Papers. Series A. Agronomy*. Vol. LVII: 272 – 275. ISSN 2285-5785, ISSN online 2285 – 5807.
 18. Muhamman, M. A. (2015). Influence of Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates on Yield and Yield Components of Tomato (*Lycopersicon esculentum* (L.) Mill) II. *Life Sciences Inter. Research Journal*. Vol. 2 (1): 161 – 166. ISSN 2347 – 8691.
 19. Muhamman, M. A. (2015). Physiological Attributes and Yield of Sesame (*Sesamum indicum* L.) as Affected by Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates. *Adamawa State Uni. Journal of Agricultural Sciences*. Vol. 3 (2): 60 – 65. ISSN 2276 – 8491.
 20. Muhamman, M. A. (2015). Response of Cowpea (*Vigna unguiculata* (L.) Walp) to Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates. *Adamawa State University Journal of Agricultural Sciences*. Vol. 3 (2): 79 – 85. ISSN 2276 – 8491.
 21. Muhamman, M. A., Gambo, B. A., and Musa, I. (2016). Growth and Yield Characteristics of Cowpea (*Vigna unguiculata* (L.) Walp) as Influenced by Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates II. *European Journal of Physical and Agricultural Sciences*. Vol. 4 (1): 56 – 62. ISSN 2056 – 5879.

22. Ibrahim, A., Mohammed, Z. H., Gambo, B. H., Muhammad, A., Abubakar, I. U., and Muhamman, M. A. (2016). Effects of Sowing Date on the Performance of Sesame (*Sesamum indicum* L.) Varieties in Maiduguri, Borno State, Nigeria. *Journal of Agriculture and Environment*. Vol. 12 (1): 81 – 88. ISSN 1595 – 465X.
23. Bibi, U. M., Muhamman, M. A., and Halilu, S. (2016). Soil Erosion and the Sustainability of Land Resources for Agricultural Production in Northern Adamawa. *Adamawa State University Journal of Agricultural Sciences*. Vol. 4 (1): 62 – 70. ISSN 2276 – 8491
24. Yusuf, Z., and Muhamman, M. A. (2017). Influence of Variety and Spacing on the Growth and Yield of Okra (*Abelmoschus esculentus* L. Moench) in Mubi, Northern Guinea Savanna Zone of Nigeria. *International Journal of Agriculture and Environmental Research*. Vol. 3 (6): 4329 – 4337. ISSN 2455 – 6939.
25. Kasim, H., Musa, I., and Muhamman, M. A. (2017). Effects of Spacings and Butachlor Levels on Weed Control, Growth, and Yield of NERICA 1 Rice (*Oryza sativa* L. x *Oryza glaberrima* L.). *Journal of Agricultural Sciences*. Vol. 62 (4): 361 – 369.
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26. Aliyu, D., Muhamman, M. A., Muhammed, I. B., and Lado, A. (2018). Effect of Varieties and Weed Control Methods on Growth of Cucumber (*Cucumis sativus* L.) in Sudan Savanna of Nigeria. *Journal of Agriculture, Food Security, and Sustainable Environment*. Vol. 1 (1): 229 – 238. ISSN 3635 – 3547.
27. Odeleye, I. S., Odeleye, F. O., and Muhamman, M. A. (2018). Influence of Source-Sink on Cowpea (*Vigna unguiculata* L. Walp) Performance. *Journal of Agriculture, Food Security, and Sustainable Environment*. Vol. 1 (1): 239 – 243. ISSN 3635 – 3547.
28. Muhamman, M. A., and Samuel, R. (2018). Performance of Maize Varieties (*Zea mays* L.) with Different Rates of Nitrogen Fertilizer and Cowdung in Mubi, Northern Guinea Savanna, Nigeria. *Scientific Papers. Series A. Agronomy*. Vol. LXI, No. 1.
29. Odeleye, I. S., Nzohulato, N. G., Muhamman, M. A., Akpama, O. O., Dedan, N. K., and Kuye, O. B. (2020). Impact of Climate Change on Arable Crops among Farmers in Akko Local Government, Gombe State, Nigeria. *Asian Journal of Research in Agriculture and Forestry (AJRAF)*. Vol. 5 (4): 1 – 10. ISSN 2581-7418.
30. Odeleye, I. S., Togun, A. O., Adeniji, I. T., Adejumo, S. A., and Muhamman, M. A. (2020). Influence of Compost, Indole-3-acetic Acid, and Gibberellic Acid Application on Productivity of Jatropha. *Moor Journal of Agricultural Research*. Vol.21
31. Ganiyu, S. A., Muhamman, M. A., Gurama, A. U., and Popoola, A. R. (2021). Reactions & Yield Performance of Three Potato Cultivars Naturally Infected with Bacterial Blackleg Disease under Irrigation Practice. *Nigerian Agricultural Journal*. ISSN 0300 – 368X

32. Muhamman, M. A., Haruna, A. A., Musa, I., and Adamu, Y. (2022). Post-Harvest Physiology of Tomato (*Solanum lycopersicum* L.) under Different Drying Environments and Methods. *Jewel Journal of Scientific Research* (JJSR). Vol. 7 (1): 140 – 117. Print; ISSN: 2384 – 6267, Online; ISSN 2756-651X.
33. Usman, M. G., Heland, A., Muhamman, M. A., and Kareem, I. (2022). Morphological Evaluation of Selected Capsicum Genotypes in Kashere, Gombe State, Nigeria. *Open Access Journal of Agricultural Research*. Vol. 7 (1): 000283.
34. Usman, G. M., Musa, I., Galadima, M. U., Muhamman, M. A., Saleem, A., Isyaku, M. S., Muhammad, I., Abubakar, Z. A., Aminu, D., Saidu, M. S. (2024). Effectiveness of Chemical Scarification Methods on Early Germination of Different Varieties of Date Palm in Kashere, Gombe State, Nigeria. *Bima Journal of Science and Technology*. Vol. 8 (3): 109 – 118. DOI: 10.56892/bima.v8i3.768.
35. Muhamman, M.A., Mohammed, I., and Lakun, I. H (2024). Performance of Potato (*Solanum tuberosum* L.) as Affected by Farmyard Manure in Gombe, Sudan Savanna Nigeria. *Nigerian Journal of Horticultural Science*. Vol. 28 (3): 144 – 148. ISSN 1118-2733. <https://doi.org/10.60787/NJHS.V28I3.144-148>.

iii. Peer Reviewed Conference Proceedings

1. Polycarp, I. M., Muhamman, M. A., Gabdo, B. H., and Sule, H. (2004). Pre-requisite for Development of Sustainable Agriculture in Nigeria. *Proceedings of the 11th Annual Conference of Environment and Behaviour Association of Nigeria* (EBAN), University of Agriculture, Abeokuta, Ogun State, Nigeria. Pp. 52 – 55.
2. Muhamman, M. A., Auwalu, B. M., Manga, A. A., and Jibrin, J. M. (2009). Effect of Moringa (*Moringa oleifera* Lam.) Extract on the Growth of Tomato (*Lycopersicon lycopersicum* (L.) Kert) in Kano, Sudan Savanna Ecological Zone of Nigeria. *Proceedings of the 27th Annual Conference of the Horticultural Society of Nigeria*, Kano State, Nigeria. Pp. 71 – 75.
3. Muhamman, M. A., Hussaini, M. A., and Manga, A. A. (2009). Correlation, Path Coefficient Analysis and Percentage Contribution of Some Growth Characteristics to Fruit Yield in Sweet Pepper (*Capsicum annum* L.). *Proceedings of the 27th Annual Conference of the Horticultural Society of Nigeria*, Kano State, Nigeria. Pp. 133 – 138.
4. Muhamman, M. A., Auwalu, B. M., Manga, A. A., and Jibrin, J. M. (2009). Preliminary Investigation on the Performance of Cowpea (*Vigna unguiculata* (L.) Walp) to Foliar Application of Moringa (*Moringa oleifera* Lam.) Extract. *Proceedings of the 27th Annual Conference of the Horticultural Society of Nigeria*, Kano State, Nigeria. Pp. 418 – 422.
5. Muhamman, M. A., and Hamid, M. Y. (2010). Treatise on the Suicide Seed Technology (Terminator Technology) and the Millennium Development Goals. *Proceedings of the 24th*

National Conference of Farm Management Association of Nigeria, Faculty of Agriculture, ADSU, Mubi, Nigeria, October 11 – 14. Pp. 279 – 282.

6. Muhamman, M. A. (2010). Problems and Prospects of Cultivating Moringa (*Moringa oleifera* Lam.) for Consumption and Industrial Uses in Nigeria. *Proceedings of the 24th National Conference of Farm Management Association of Nigeria*, Faculty of Agriculture, ADSU, Mubi, Nigeria, October 11 – 14. Pp. 242 – 247.
7. Muhamman, M. A., Auwalu, B. M., Manga, A. A., and Jibrin, J. M. (2011). Response of Sesame (*Sesamum indicum* L.) to Foliar Application of Moringa (*Moringa oleifera* Lam.) Extract in Kano, Nigeria. *Proceedings of the 45th Annual Conference of the Agricultural Society of Nigeria*, Usman Danfodio Uni., Sokoto, Nig., October 24 – 28. Pp. 256 – 259.
8. Muhamman, M. A., Auwalu, B. M., Manga, A. A., and Jibrin, J. M. (2012). The Contribution of Some Physiological Attributes to Grain Yield of Maize as Affected by Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Nitrogen Rates. *Proceed. of the 46th Annual Conference of the Agricultural Society of Nigeria*, Bayero University, Kano, Nigeria. Pp. 619 – 423.
9. Muhamman, M. A., and Kwada, B. (2015). Comparative Efficacy of Aqueous Extract of Moringa (*Moringa oleifera* Lam.) and Coconut (*Cocos nucifera* L.) Milk on the Performance of Pawpaw (*Carica papaya* L.) Seedling. *Proceedings of the International Conference on Chemical, Environmental, and Biological Sciences*, Dubai, UAE, March 18 – 19. Pp. 93 – 95.
10. Ganiyu, S. A., Muhamman, M. A., Gurama, A. U., Odeleye, I. S., and Popoola, A. R. (2019). Preliminary Evaluation of Three Irish Potato Cultivars for Blackleg Incidence and Yield Performance under Irrigation Practice in Northeastern Nigeria. *Proceedings of the 37th Annual Conference of the Horticultural Society of Nigeria*, Rufus Giwa Polytechnic (RUGIPO), Owo, Ondo State, Nigeria, November 18 – 22.
11. Muhamman, M. A., Umaru, A., Barde, R., and Saidu, M. (2019). Performance of Groundnut (*Arachis hypogaea* L.) Varieties in Mubi, Northeastern Nigeria. *Proceedings of the 6th Annual Conference of Crop Science Society of Nigeria (CSSN)*, Federal University of Technology, Owerri, October 13 – 17.
12. Hamma, I. L., Muhamman, M. A., and Awak, A. (2019). Effect of Phosphorus Fertilizer Rates on the Growth and Yield of Soybean (*Glycine max* (L.) Merrill) in Kashere, Gombe State. *Proceedings of the 6th Annual Conference of Crop Science Society of Nigeria (CSSN)*, Federal University of Technology, Owerri, October 13 – 17.
13. Mohammed, I., Muhamman, M. A., and Hamma, I. L. (2023). Effect of Variety and Farmyard Manure on Growth and Nutritive Value of Potato (*Solanum tuberosum* L.) in Gombe State, Nigeria. *Proceedings of the 8th Annual Conference of Crop Science Society of Nigeria (CSSN)*, Federal University of Kashere, Gombe State, October 8 – 13.

14. Aliyu, I. Y., Dugje, M. A., Muhamman, M. A., and Magaji, U. G. (2023). Evaluation of Cowpea (*Vigna unguiculata* (L.) Walp.) Varieties and Sowing Dates for Growth and Yield of Cowpea Intercropped with Sesame in Sudan Savanna, Nigeria. *Proceedings of the 8th Annual Conference of Crop Science Society of Nigeria* (CSSN), Federal University of Kashere, Gombe State, October 8 – 13.
15. Maunde, S. M., and Muhamman, M. A. (2023). Productivity and Profitability of Tomato (*Lycopersicon esculentum* L.) as Influenced by Poultry Manure Rates and Variety at Gombe under Irrigated Conditions. *Proceedings of the 8th Annual Conference of Crop Science Society of Nigeria* (CSSN), Federal Un. of Kashere, Gombe State, October 8 – 13.
16. Mahmoud, B. A., Kapsiya, J., Muhamman, M. A., Usman, A. And Koroma, S. A. (2024). Effect of Aqueous Extract of Moringa (*Moringa oleifera* LAM.) Residues on the Growth and Yield of Tomato (*Solanum lycopersicum* L.) in Dadin Kowa, Gombe State. *Proceedings of the 9th Annual Conference of Crop Science Society of Nigeria* (CSSN), Bayero University of Kano, Kano State, October 13 – 18.

RESEARCH IN PROGRESS

1. Genome-Wide Identification of Novel Date – SRY Gene and Sex Determination among Different Genotypes of Nigerian Date Palm (*Phoenix dactylifera* L.). Funded by TETFUND National Research Fund (NRF), 2022. Federal University, Kashere.
2. Lithosequence on Spatial Variation of Soil Properties and Classification for Food Security in Gombe, Northeastern Nigeria. Funded by TETFUND National Research Fund, 2023. Federal University, Kashere.

MEMBERSHIP OF PROFESSIONAL BODIES

1. Member, African Crop Science Society, 2013 - Date
2. Life Member, Crop Science Society of Nigeria, 2019 - Date
3. Charter Member, National Association of Artificial Intelligence Practitioners, 2023 – Date
4. Member, Organic Agriculture Project in Tertiary Institutions in Nigeria, 2019 - Date
5. Member, Horticultural Society of Nigeria, 2007 - Date
6. Member, Weed Science Society of Nigeria, 2006 - Date
7. Member, Environment & Behaviour Association of Nigeria, 2004 - Date

COMMUNITY SERVICE

1. Acting Chairman, Welfare Committee, Faculty of Agric, ADSU, Mubi, 2007.
2. Chairman, Furamane Bamako Initiatives, V/Pakka, Maiha LGA, Adamawa St., 2006–2008.
3. Member, Operation Youth Go Back to School, Furamane, V/Pakka District, Maiha LGA, Adamawa State, 2006 – Date.

4. Member, Resettlement Committee for Insurgency-Displaced Families, V/Pakka District, Maiha LGA, Adamawa State, 2015.
5. Presenter, Semester System and Its Implication in Nigerian Universities. Orientation Exercise for New Students, Federal University, Kashere, 26 January 2017.
6. Presenter, Youth Participation in Agriculture: A Remedy to Economic Sustainability in Nigeria. National Association of Agricultural Students (NAAS), FUK Chapter Day, 2017.
7. Staff Adviser, National Association of Jigawa State Students, FUK Chapter, 2016–present.
8. Ex-Officio II, Parent-Teachers Association, Nana Ainaba Academy, Tunfure, Gombe State.
9. Member, Multipurpose Cooperative Society, Federal University, Kashere.
10. Board Member, Islamic Center, Labour Estate, Tunfure, Gombe State, 2021– Date

Awards, Commendations and Appreciations

1. Commendation Letter, NYSC, Ogun State, 2000
2. Certificate of Excellence, Ministry of Environment & Forest Resources, Gombe State Government, 2017
3. Commendation Letter, ASUU, FUK, 2018
4. Appreciation Letter, FUK, 2020
5. Appreciation Letter, FUK, 2022
6. Exemplary Participation and Life Long Learning Award, VICBHE, 2022

EXTRA – CURRICULAR ACTIVITIES

1. Rearing of animals
2. Crop farming
3. Walking

NAMES AND ADDRESSES OF THREE REFEREES

1. Prof. Hamma Idi Lakun, Head, Department of Agronomy, FUK, Gombe State, Nigeria
2. Prof. Danjuma Zahraddeen, Head, Department of Animal Science, Faculty of Agriculture/Institute of Agricultural Research, Ahmadu Bello University, Zaria, Kaduna State, Nigeria
3. Prof. B. M. Auwalu, Department of Agronomy, Bayero University Kano, Nigeria.