

Curriculum Vitae

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EDUCATION

Academic Degree	Subject	Year	University
PhD	Agricultural Economics and Sustainable Food Systems	Jan 2020 - Dec 2023	Justus Liebig University, Germany
MSc	Environment and Development	Sept 2016 – Nov 2017	University of Leeds, United Kingdom
BSc	Agricultural Economics	June 2008 – Sept 2013	University of Nigeria

CAREER TREND

Institution	Designation	Role	Date
Justus Liebig University, Germany	Post-Doctoral Researcher	Courses taught <ul style="list-style-type: none">MK-127-EN: Socio-Economic Perspectives on Food SystemsMP-209: Field-Work Based Research in Socio-Economics	Dec 2023 - Present
University of Nigeria	Senior Lecturer	Courses taught <ul style="list-style-type: none">AEC 501: Advanced EconometricsAEC 502: Advanced Micro EconomicsAEC 301: Agricultural Marketing and Finance	Oct 2018 - Oct 2019
University of Nigeria	Assistant Lecturer	Courses taught <ul style="list-style-type: none">AEC 201: Agricultural Development and PolicyAEC 101: Introduction to Agricultural Economics	Nov 2017 –Oct 2018
University of Nigeria	Graduate Assistant	Provides aid during classes or projects in the field of resource and environmental economics	Mar 2016 – Nov 2017- 2017

TRAINING AND CERTIFICATES

- Intercultural Communication and Interpersonal Relationships in Workplace (Oct 2023)
- Economic Modelling Using GAMS, Justus-Liebig-University, Germany (July 2023)
- Spatial Analysis Using R, University of Berlin, Germany (Oct 2023)
- Applied Computable General Equilibrium Modelling, Humboldt University of Berlin (Oct 2022)
- Time-series econometrics and text mining using Python and STATA, Justus-Liebig-University (Mar 2020)
- Project management, Google Certification (Jan 2022)
- Sustainable Finance and impact investment, University of Bologna, Italy (July 2022)
- Agrarian Institutions, Contracts and Bargaining Models. Justus-Liebig-University (2021)
- Diploma in Global food security, University of Bergen, Norway (Oct 2020)

Research Grants (Co-Principal Investigator)

- Accelerating inclusive green growth through agri-based digital innovation in West Africa **€254,897.00** Grant contract number FED/2020/420-491 – Ongoing.
- African Economic Research Consortium. Policy Analysis for Sustainable and Healthy Foods in African Retail Markets (PASHFARM) project. **US\$30,000**. Faculty/FR Grant No: AE/FAC/24-059 (Award 2588) – Ongoing.
- Swedish International Development Cooperation Agency. **SEK 331,100**. Applied research capacity for Sub- Saharan African center. Grant No. 1516– Ongoing.
- West and Central African Council for Agricultural Research and Development. **Four million Euros**. Regional Multi-actor Research Network Consortium on Agroecology in West and Central Africa – Preselected

ACADEMIC ACHIEVEMENTS

- Right Livelihood Junior Research Scientist Award. 2019. Center for Development Research/ Zentrum für Entwicklungsforschung (ZEF), UN-Bonn Campus, Germany
- University Prize and Valedictorian - 2012/2013 Overall Best Graduating Student of the University of Nigeria
- Best Graduating Student Faculty of Agriculture
- Best Graduating Student Department of Agricultural Economics
- 2008/2009 Overall Best Graduating Student of Giant Steps International Secondary School
- 2003 NNPC Best science student Award (State Science Quiz Competition)
- 2003 NNPC Best science student Award (Regional Science Quiz Competition)
- 2004-Senior Prefect, 2003-Chapel Prefect, 2002-School Regulator
- Tony Elumelu Legacy Prize
- Indira Gandhi Memorial Prize
- Culbeat Award

RESEARCH SCHOLARSHIPS AND AWARDS:

- Justus Liebig University Buro Chancengleichheit grant (2023)
- Stiftung Fiat Panis grant (2021)
- German Academic Exchange Service (DAAD) PhD Award (2019)
- Oxford University African Initiative for Governance Award, UK (2019)
- Climate Change Bursary Award, School of Environment, University of Leeds (2017)
- Priestly climate centre, University of Leeds dissertation Award (2017)
- Commonwealth scholarship (2017)
- Chevening scholarship (2016 – Not taken up)
- Lord Walston Scholarship in Climate Change and International Development (2016)
- African Network for Agriculture, Agroforestry and Natural Resources Education Grant, Nairobi Kenya (June 2012)

PROFESSIONAL MEMBERSHIP

- Econometrics Society
- International Association for Agricultural Economics
- Nigerian Association of Agricultural Economists
- African Association of Agricultural Economists
- European Association of Agricultural Economists
- Environment for development, Sweden (Fellow)
- African Association of Resource and Environmental Economics (Member)
- African Institute of Applied Economics (Research Fellow)

PEER REVIEW ACTIVITIES

- Journal of Cleaner Production (Elsevier Outstanding reviewer award)
- Land Use policy
- Environmental Development
- World Development Perspective
- International Journal of Agricultural Sustainability
- Journal of Development Studies
- Cogent Food & Agriculture
- GeoJournal
- Journal of Primary Prevention
- Journal of Global Ecology and Environment
- Frontier in Sustainable Food Systems

(CO) SUPERVISION

1 PhD student ongoing

5 MSc Students (3 Completed)

12 Undergraduate students

REVIEW-EDITOR

- Frontiers in Environmental Economics (Agricultural Economics)

PUBLICATIONS

Nwangwu, K. N., Onyenekwe, C. S., Opata, P. I., **Ume, C. O.**, & Ume, N. N. C. (2024). Can digital technology promote market participation among smallholder farmers? *International Food and Agribusiness Management Review* (published online ahead of print 2024). <https://doi.org/10.22434/ifamr2023.0065>

Onyenekwe C, **Ume C**, Amaechina E, Chukwuma Ume N, Onah O, Obetta A, Omeje E. Food self-provisioning: Implications for sustainable agroecological transition in rural Nigeria. *Heliyon*. 2024 Jun 11;10(12):e32098. <https://doi.org/10.1016/j.heliyon.2024.e32098>

Ume, C., & Bahta, Y.T. (2024). Policy support strategies for organic farming extensification in Nigeria. *Organic Agriculture*. <https://doi.org/10.1007/s13165-024-00467-4>

Ume, C., Gebremedhin, K. G., & Uyeh, D. D. (2024). Imagining AI-driven decision making for managing farming in developing and emerging economies. *Computers and Electronics in Agriculture*, 221, 108946. <https://doi.org/10.1016/j.compag.2024.108946>

Ume, C.O (2023) "The role of improved market access for small-scale organic farming transition: Implications for food security", *Journal of Cleaner Production*, 387, p. 135889. doi: <https://doi.org/10.1016/j.jclepro.2023.135889>.

Onyekuru, N. A., Marchant, R., Touza, J. M., **Ume, C.**, Chiemela, C., Onyia, C., Eboh, E. C. and Eze, C. C. (2023). A–Z of cost-effective adaptation strategies to the impact of climate change

- among crop farmers in West Africa. *Environment, Development and Sustainability*. <https://doi.org/10.1007/s10668-023-03474-9>.
- Ume, C.**, Nuppenau, E., & Domptail, S. (2023). Which women profit from agroecology to secure their food and nutrition? On access to markets and assets. *Frontiers in Sustainable Food Systems*, Sec. Land, Livelihoods, and Food Security. Volume 7 - 2023 | doi: <https://doi.org/110.3389/fsufs.2023.1082944>
- Ume, C. O., Onah, T. L., Ezeibe, A. B., Onah, O. G., Opata, P. I., Idika, E. O., & Felix, K. U. (2023). Agroecology as a Response to Sustainable Development under Climate Change in Southeast Nigeria. In *Climate Change Impacts on Nigeria: Environment and Sustainable Development* (pp. 279-302). Cham: Springer International Publishing. http://dx.doi.org/10.1007/978-3-031-21007-5_15
- Onyenekwe, C. S., Opata, P. I., **Ume, C. O.** Sarpong, D. B., and Egyir, I. S. (2023). Heterogeneity of adaptation strategies to climate shocks: Evidence from the Niger Delta region of Nigeria. *Bio-based and Applied Economics*, Just Accepted. DOI: <https://doi.org/10.36253/bae-13436>
- Ume, C.O.**, Nuppenau, E. and Domptail, S. (2022) "A feminist economics perspective on the agroecology-food and nutrition security nexus", *Environmental and Sustainability Indicators*, 16, p. 100212. doi: <https://doi.org/10.1016/j.indic.2022.100212>.
- Omeje, E., okpukpara, B., Okereke, c., **Ume, C.O.** & Okpukpara, V. (2022). Incentivizing the adoption of biofortified rice for increasing farmers' productivity and income during covid19 era: evidence from smallholder farmers in Nigeria. *Scientific Papers: Management, Economic Engineering in Agriculture & Rural Development*, 22(4). <https://managementjournal.usamv.ro/index.php/scientific-papers/current>
- Paul Adeosun & **Ume, C.O** (2022). Factors Influencing Fruits and Vegetable Consumption among Pregnant Women: Evidence from Enugu State, Nigeria. *International Journal on Agricultural and Food Systems*, 24(6). <https://doi.org/10.3280/ecag2022oa12293>
- Ume, C.O.**, Opata, P.I., Onyekuru, A.N.J. (2021). Gender and Climate Change Adaptation among Rural Households in Nigeria. In: Oguge, N., Ayal, D., Adeleke, L., da Silva, I. (eds) *African Handbook of Climate Change Adaptation*. Springer, Cham. https://doi.org/10.1007/978-3-030-45106-6_182
- Ukwuaba, Ezeonyiwar, Onah, & **Ume, C** (2021). Risk Mitigation Strategy: The Analysis of Off-Farm Income Diversification Strategy among Crop Farmers in Igbo-Eze North Local Government Area. *Journal of Agricultural Science and Food Research*, 20(15), 32–42. <https://doi.org/10.47310/iajasfr.2021.v01i01.005>
- Agu, A. J., Kalu, U. F., & **Ume, C. O.** (2021). Smallholder Farmers Risk Management Strategies And Livelihood Implications: Evidence From Nsukka Local Government Area. *Himalayan Journal of Agriculture*, 1–7. <https://doi.org/10.47310/Hja.2021.v02i04.001>
- Ume C.O.**, Opata P.I., Onyekuru A.N.J. (2021) Gender and Climate Change Adaptation among Rural Households in Nigeria. In: Leal Filho W., Oguge N., Ayal D., Adeleke L., da Silva I. (eds) *African Handbook of Climate Change Adaptation*. Springer, Cham. https://doi.org/10.1007/978-3-030-45106-6_182
- Onyekuru A.N., Apeh C.C., **Ume C.O.** (2021) Households' Willingness to Pay for the Use of Improved Cookstove as a Climate Change Mitigation Strategy in Nigeria. In: Leal Filho W., Luetz J., Ayal D. (eds) *Handbook of Climate Change Management*. Springer, Cham. https://doi.org/10.1007/978-3-030-22759-3_225-1
- Opata PI, Okorie OJ, Iwuchukwu JC, **Chukwuma, UO**, Oyinbo O. (2021). Adoption of improved cassava varieties in Nigeria: Insights from DNA fingerprinting versus self-reporting varietal identification approaches. *Outlook on Agriculture*. January 2021. <https://doi.org/10.1177/0030727021990032>
- Ezeibe, A., Ifeyinwa, P., & **Chukwuma, UO.** (2020). Determinants for the adoption of technology and the choice of marketing channel for rice smallholder farmers in southeast Nigeria. *The Journal of Animal & Plant Sciences*. 30(4) 1004 – 1012 <http://dx.doi.org/10.36899/JAPS.2020.4.0115>

- Olumba, C. C., Onunka, C. N and **Chukwuma U.O.** 2020. Government Expenditure on Agricultural Development and Economic Growth in Africa. *Journal of Gender, Information, and Development in Africa* (jGIDA). 9 (20) P.48-58
- Chukwuma U.O.**, Onah, O., Adeosun, K., Nnamdi, O., Ihedioha, N., Onyia, C., & Orié Idika, E. (2020). Unpacking the Levels of Household and Individual Climate Change Adaptation: Empirical Evidence from Leeds, United Kingdom. *Weather, Climate, And Society*, 12(3), 501-513. doi: [10.1175/wcas-d-19-0109.1](https://doi.org/10.1175/wcas-d-19-0109.1)
- Opata, P., Ezeibe, A., & **Chukwuma, UO.** (2020). Impact of women's share of income on household expenditure in southeast Nigeria. *African Journal of Agricultural and Resource Economics*, 15(1). Retrieved from <https://econpapers.repec.org/article/agsafjare/307616.htm>
- Onyekuru NA, **Chukwuma, UO**, Ezea CP, Chukwuma Ume (2020). Effects of Ebola Virus Disease Outbreak on Bush Meat Enterprise and Environmental Health Risk Behavior among Households in South-East Nigeria. *Journal Primary Prevention*. 2020 Dec; 41(6):603-618. doi:[10.1007/s10935-020-00619-8](https://doi.org/10.1007/s10935-020-00619-8).
- Onyekuru, A. N., Eboh, E., & **Chukwuma, UO.** (2020). Effects of relative pricing of alternative cooking energy sources on their substitution between rural and urban households in Enugu State, Nigeria. *Journal of Agricultural Extension*, 24(1), 75-84. <https://journal.aesonigeria.org/index.php/jae>
- Adeosun, K. P., Ihemezie, E. J., **Ume, C. O.**, & Egu, L. U. (2019). The nexus between maize importation, local production, and local prices: Empirical analysis from Nigeria. *Alanya Akademik Bakış*, (June). <https://doi.org/10.29023/alanyaakademik.481553>
- Adeosun, K. P., **Ume, C. O.**, & Ezugwu, R. U. (2019). Analysis of socio-economic factors of fish pond production in Enugu State, Nigeria. *Journal of Tropical Agriculture*, *57*(1), 27–34.
- Ume, C. O.** (2018). Influence of Global Economic Arrangements on the Environment : The Need for Eco- capitalism. Research & Reviews : *Journal of Ecology and Environmental Sciences*, 6(4), 18–26.
- Ume, C. O.**, Frederick, I. J., & Martina, K. (2017). Tragedy of the Commons and Economics of Deforestation in Nigeria. *Journal of Biodiversity Management and Forestry*, 6, 1. <https://doi.org/10.4172/2327-4417.1000175>
- Chukwuhebe, O. U., Patience, O. I., Nneoma, I. N., & **Ume, C. O.** (2018). [Benefits of Agro-Forestry Land Use in Nsukka Local Government Area](#). *American International Journal of Agricultural Studies*, 1(1), 1–15.
- Ume, C. U**, Paul, A. K., & Johnpaul, I. E. (2018). Climate Change Determinants of extent of adaptation to climate change by female farmers in Enugu State, Nigeria: a hurdle model application. *Climate Change: Discovery Publications* 5(17) pp.48-54
- Sunny Ume Chukwuemeka, **Offia** Alaezi Kingsley and **Ume Chukwuma** (2018) Climate Change Vulnerability Analysis of Smallholder Farmers in Enugu State Nigeria: Gender-Sensitive Approach. *Journal of arid land agriculture: update publishers*, 4: 01-06 doi: <https://doi.org/10.25081/jaa.2018.v4.3374>
- Ume C. O.** (2017) [Critical Perspective on Climate Change Adaptation among Farmers in Developing Nations: Unpacking Divergent Approaches](#). *Mod Concepts Dev Agrono*. 1(1). MCDA.000504.
- Ihedioha, Nneoma, N., Obiajulu, U. C., & **Ume, C. O.** (2018). [Understanding Food Expenditure Systems among Households in Nigeria: A Case Study of Nsukka Area, Enugu State](#), *Global Journal of Human-Social Science: E-economics*18(7).
- Obiajulu, U. C., Ume, C. O., & Nneoma, I. N. (2018). [Effects of Interest Rate Deregulation on Agricultural Finance and Growth in Nigeria](#). *Global Journal of Human Social Science: E Economics*, 37(1), 45–52. <https://doi.org/10.1109/23.45437>
- Ume, C. O.**, Obiajulu, U. C., & Nneoma, I. N. (2018). [Membership of Cooperative Societies and Farmers ' Financial Capital Accumulation in Arochukwu L.G.A of Abia state, Nigeria](#). *Journal for Studies in Management and Planning*, 04(09), 118–127.
- Oranu, Enete, Obiajulu, and **Ume** (2018) [Assessment of the Use of E-Marketing among Agribusiness Firms in South East Nigeria](#). *Business, Management and Economics Research: Academic Research Publishing Group* 3(12) pp.233–239

- Ume Chukwuma Otum**, Cynthia Onunka, and Prof Achike Anthonia. (2017) [A Pilot Production of Dry Season Cucumber Using Inorganic Fertilisers in The University of Nigeria Farm, Nsukka, Enugu State, Nigeria.](#) International Journal of Agriculture, Environment and Bioresearch
- Frederick Ijeoma Joy, **Ume Chukwuma Otum**, Osuagwu, Queen Onyekachi. (2016) [An Empirical Analysis of the Impact of Budget Deficit on Economic Growth in Nigeria \(1970-2011\)](#) International Journal of Management and Commerce Innovations 2348-7585 Vol. 4, Issue 2, pp: (62-67)
- Ume Chukwuma Otum**, Cynthia Onunka and Chizoba Oranu. (2016) [A comparative pilot production of dry season green pepper using organic, inorganic, and a combination of inorganic and organic fertilizers in the University of Nigeria farm, Nsukka, Enugu State, Nigeria.](#) Net Journal of Agricultural Science Vol. 4(4), pp. 63-66, 2315-9766
- Ume Chukwuma Otum** and Ijeoma Joy Frederick, (2016). [Petroleum Product Pricing \(PPP\) and Job Creation in Nigeria 1980 - 2011,](#) International Journal of Research in Social Sciences Vol. 6 Issue 11

Books Published

- Ume Chukwuma Otum.** (2018). *The Effect of Food Miles on the Environment*, Book of Readings on Dynamics of Natural Resource and Environmental Management in Nigeria. Theory, practice, bureaucracy, and advocacy: Innovation Academy Limited: Nigeria.
- Ijeoma Frederick, **Ume Chukwuma**, and Queen Osuagwu (2016) *The Long and Short Term Impact of Budget Deficit on Economic Growth*: University Press, Nigeria: 978-3-330-04999

Conference papers

- Journal Of Peasant Studies Conference (10-12 October) International Conference: Critical Agrarian Studies in the 21st Century. China Agricultural University Beijing).
- 61st Annual Conference of the German Association of Agricultural Economists (GEWISOLA), Berlin, Germany, September 22-24, 2021, **Agroecology as an ontology to guide agricultural and food systems?** No 317071, Econpapers.repec.org. Available at: <https://econpapers.repec.org/paper/agsgewi21/317071.htm>
- 2021 Conference, August 17-31, 2021, International Association of Agricultural Economists. **Improving Food Security and Nutrition through Agroecology: The Role of Social Reproduction and Agency.** DOI: <https://doi.org/10.22004/ag.econ.315010>
- TROPENTAG, 2021. Towards shifting paradigms in agriculture for a healthy and sustainable future. September 15 - 17, 2021, Hohenheim, Germany **Agroecology Strengthens Social Reproduction: Implications for Food Security and Nutrition among HIV female households.** https://www.tropentag.de/2021/abstracts/links/Ume_SfBURVOX.pdf
- TROPENTAG, 2022. "Food and nutrition security and its resilience to global crises". Tropentag, September 9-11, 2020, virtual conference. Linking Agency to Food and Nutrition Security (FNS): The Role of Agroecology. https://www.tropentag.de/2020/abstracts/links/Ume_1dlVNnuR.pdf
- 3rd Right Livelihood conference. September 14-19, 2019. Zentrum für Entwicklungsforschung (ZEF) Metro Station: Heussallee/ Museumsmeile Genscherallee 3, 53113 Bonn. **Building resilient farming communities: The Need for Agroecology**
- 3rd Annual School of general studies conference (1st – 6th May, 2019). Emerging cross-disciplinary education and research for sustainable development: The Role of General Studies Programme. **Climate change, energy, and environmental sustainability: the need for eco-capitalism.** Princess Alexandra Auditorium, university of Nigeria
- 24th Annual Agricultural Extension Society of Nigeria (AESON) (6th – 9th April 2019) Enhancing Agricultural Extension Capabilities for Improved Agricultural Value Chain in Nigeria. **Promoting financial inclusion among women rural Farmers: Three step model.** Raw Material and Development Council, Abuja, Nigeria
- 6th Conference of African Association of Agricultural Economists, 23 – 26, September 2019, Sheraton Hotel Abuja Nigeria. **Understanding the Nexus of Households' Attributes and Climate Change Mitigation Behaviour: Empirical Evidence from Nigeria**

- 4th Geoscience Fieldwork Conference (6th – 9th November 2018) A Code for Geoscience Fieldwork in Nigeria and Africa. Under the auspices of the Ministry of Mines and Steel Development (MMSD), University of Nigeria, Nsukka, Enugu state
- 4th annual Conference of GFGD, Geology for Global Development (4th November 2016). **Geology and the Sustainable Development Goals**; the Geological Society, Burlington House, London W1J 0BG
- 30th FAMAN Conference, Farm Management Association of Nigeria, (18th November 2016); **Value chain of Bambara Groundnut in Enugu State, Nigeria**; University of Abuja, Nigeria

Contact details of 2 referees

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