

# Anthony Oyeogbe

**Company:** The University of Arizona

**Address:** 37860 W Smith Enke Rd, Maricopa, AZ 85138 USA

**Requisition:** Assistant/Associate Specialist, Agronomy, Conventional Cropping Systems (Maricopa, AZ) (req17001)

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**Application Received:** 8/8/2023

**Source:** External Career Site

**Applicant Type:** External

## Application Contents

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**Anthony Imoudu Oyeogbe**

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**PROFILE**

Aiming to improve sustainable intensification, and ensuring food, nutrition and livelihood security, and ecosystem sustainability through innovative technologies and good agronomic practices.

**EDUCATION**

- PhD in Agronomy**, Indian Agricultural Research Institute, India Dec 2012-Jan. 2016  
Thesis: "Nitrogen and weed management in maize-wheat system under conservation agriculture of the Indo- Gangetic Plains".
- MSc in Agronomy**, Sardarkrushinagar Agricultural University, India, Aug 2010-July 2012  
Thesis: "Productivity, profitability, and soil fertility of sesame-based cropping systems in North India".
- MSc in Soil Science**, University of Ibadan, Nigeria Sept 2008-July 2010  
Thesis: "Soil-water characteristics of Southwestern Nigeria: Measurement vs. Simulation".
- BTech in Agronomy**, Ladoke Akintola University of Technology, Nigeria, Sept 2001-Aug. 2006  
Thesis: "Early growth of *Thaumatococcus danielli* as influenced by nitrogen fertilizer and rhizome cuttings".
- Certificate in Renewable Energy Resources and Policy**, TERI University, India Jul 2015-Dec 2015

**RESEARCH AND TEACHING EXPERIENCE**

- Research Officer, Agriculture** Technological University of the Shannon, Thurles, Ireland Jan 2023 – Present  
Responsibilities: Coordinating the multifunctional agriculture programme of the AgriNext project in Ireland under the European Union (Erasmus+) program. Designing a curriculum in multifunctional agriculture to attract students. Developing business incubators for multifunctional entrepreneurship and skill development. Identifying best management practices in multifunctional agriculture for rural development.
- Lecturer and Researcher**, Department of Agronomy, University of Ibadan, Nigeria Sept 2020 – Dec 2022  
Responsibilities: Teaching and mentoring students in sustainable cropping systems, soil fertility and integrated farming systems. Research on agroecological approaches and novel agronomic technologies for sustainable intensification. Training and communication of best agronomic management practices, innovative soil and crop technologies to farmers, particularly in rural communities.
- Resident Fellow**, Polish Institute of Advanced Studies, Warsaw Oct 2021- Feb 2022  
Research Project: Developing digital agriculture model for smartening sustainable intensification of smallholder agriculture: Technological and policy interventions.
- Postdoctoral Research Associate**, University of Rostock, Germany Aug 2019 – Aug 2020  
Research Project: Examining the influence of phosphorus on nitrogen transformation and nitrous oxide emissions in agricultural soils.  
Accomplishment: Demonstrated that phosphorus can regulate soil nitrogen cycling and associated nitrous oxide emission.

**Lecturer and Researcher**, Department of Agronomy Benson Idahosa University, Nigeria Dec 2017– Jul 2019  
Responsibilities: Teaching and mentoring undergraduate and postgraduates in sustainable crop production systems. Research on cropping systems diversification and soil fertility management.  
Accomplishment: Improved productivity and profitability of cropping systems including soil health through diversification.

**Research Agronomist**, Dangote-Savannah Sugar Company, Nigeria Dec 2016 – Nov 2017  
Responsibilities: Implementing innovative technologies and good agronomic practices in sugarcane: Driving Nigeria's potential towards self-sufficiency in sugar production.  
Accomplishment: Increased sugarcane productivity by 8% within the first year through the appropriateness of varieties, fertiliser and weed management. Identified six promising varieties that increased yield by 10 % in the first year ratooning. Validated a pre-emergent herbicide with weed control efficiency of 98 %.

**Visiting Scholar**, Leibniz Centre for Agricultural Landscape Research, Germany Apr 2014 – Jul 2014  
*Research Project*: Parameterising the Model for Nitrogen and Carbon in Agroecosystem (MONICA)  
Accomplishment: Parameterised the MONICA simulation model, and predicted maize and cotton yields, carbon and nitrogen stocks.

**Research Fellow**, Indian Council of Agricultural Research, New Delhi Dec 2012 – Jan 2016  
Research Project: Examining nitrogen and weed management in maize-wheat system under conservation agriculture of the Indo-Gangetic Plains  
Accomplishment: Developed an adaptive nitrogen fertiliser rate with the aid of sensor technology (GreenSeeker™), and integrated weed management through brown manuring and herbicide mixtures. Reduced nitrogen fertilizer dose by 20% and weed density by 90%. Increased maize and wheat yields by 20 and 25%, respectively. And decoupled greenhouse gases emissions through increased soil organic carbon accumulation.

**Research Fellow**, Indian Council of Agricultural Research Aug 2010 – July 2012  
Research Project: Evaluating the productivity, profitability, and soil fertility of sesame-based systems in North India.  
Accomplishment: Developed ten sesame-based cropping systems diversification via cotton, wheat, soybean, groundnut, mustard, castor, and green-gram. Increased yields and profitability up to 30% across crops.

**Research Assistant**, University of Ibadan, Nigeria Sept 2008 – Jul 2010  
Research Project: Evaluating the soil-water characteristics of Southwestern Nigeria: Measurement vs. Simulation  
Accomplishment: Predicted soil water characteristics of soils across southwestern Nigeria, which has important implications for soil moisture availability for crop use.

**Teaching Assistant**, Federal University of Agriculture, Abeokuta, Nigeria Mar. 2007 – Feb. 2008  
Responsibilities: Managing field research on pasture crops productivity and analysis of forage nutritive value.

**List of courses taught and students mentored:**

Farming Systems, Crop production techniques, Advanced plant nutrition, Soil fertility and conservation, Forage crops and pasture management, Permanent and arable crop production, Field experimentation design, Introduction to agroclimatology and biogeography, Weed science, Land use and soil survey, Physiology of crop growth and crop yield.

**Master students thesis/project supervised:**

1. Gerald Alimasuya. Impact of conservation and conventional agriculture practices in maize-based system. Feb 2021 – Sept 2022.
2. Sekinat Oladejo. Diversification of sweet-potato cropping systems: Productivity, soil fertility, and profitability''. Feb 2021 – Sept 2022.

**Bachelor's students' thesis/project supervised:**

3. Nosagie Otoadese. Productivity, profitability and soil fertility of maize-based cropping systems under tropical rainforest in Nigeria''. Completed May 2019, Published 2021.
4. Bryan Ehanire. Soil carbon sequestration potentials under different cropland use systems under tropical rainforest in Nigeria''. Completed May 2019. Published 2022.

## AWARDS, GRANTS, AND FELLOWSHIPS

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**Resident Fellowship 2021**, Award by Polish Institute of Advanced Studies, Warsaw, to develop a digital agriculture model for smartening sustainable intensification of smallholder agriculture through technological and policy interventions. **Principal Investigator: Anthony Oyeogbe. Amount: €12000**

**Young African Phosphorus Award 2021**, Award by Africa Plant Nutrition Institute, Morocco to investigate the influence of phosphorus on microbial nitrogen transformation and nitrous oxide emission. **Principal Investigator: Anthony Oyeogbe. Amount: \$5000**

**Consultancy 2021**, Award by Amun-Ra Ventures Inc. USA to investigate the productivity of Kenaf in Nigeria. **Principal Investigator: Anthony Oyeogbe. Amount: €30000**

**Research Fellowship 2019**, Award by University of Rostock, to investigate the influence of phosphorus on nitrogen transformation and nitrous oxide emissions in agricultural soils. **€55000**

**Green Talents Fellow Alumni Meet 2016**, Travel grant from the Federal Ministry of Education and Research (BMBF), Berlin, Germany, to participate in the alumni meeting of young scientists on sustainable development **Amount: €2,000**

**Proximal Sensing Supporting Precision Agriculture Conference 2015**, Travel grant from the European Association of Geoscientists and Engineers (EAGE), to present research on sensor-based nitrogen fertiliser management under conservation agriculture. **Amount: €1000**

**Climate Change and Development in Africa Conference 2014**, Travel grant from by the United Nations Economic Commission for Africa (UNECA), Addis Ababa, to present research on sensor-based nitrogen fertiliser management under conservation agriculture. **Amount: \$3000**

**Visiting Scholar Fellowship 2014**, at the Leibniz Centre for Agricultural Landscape Research, Germany. Award by the Federal Ministry of Education and Research (BMBF) Germany. **Principal Investigator: Anthony Oyeogbe. Amount: €6000**

**Nominated participant 2014**, Ninth-Africa Development Forum, Morocco, Awarded by the United Nations Economic Commission for Africa (UNECA), Addis Ababa.

**Green Talents - High Potentials in Sustainable Development 2013**, Award by the Federal Ministry of Education and Research (BMBF), Germany.

**Doctoral Scholarships 2012-2016**. Awarded by the African Union and India Government Partnership.

**Outstanding Research Paper Award 2011**, Awarded by the Guru Arjan Dev Institute of Development Studies, Water Security and Climate Change Conference, Ajmer, Rajasthan, India.

**Masters degree Scholarship 2010-2012**, Awarded by the the African Union and India Government Partnership.

## PROFESSIONAL SERVICES

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### Peer Reviewed Articles for:

Agricultural Systems (Elsevier)  
Paddy and Water Environment (Springer)  
Archives for Agronomy and Soil Science (Taylor and Francis)

**Executive Secretary**, Benson Idahosa University Directorate of Research 2019-2020

## PROFESSIONAL AFFILIATIONS

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Fellow, Polish Institute of Advanced Studies, Warsaw	2021
Member, Soil Science Society of Nigeria	2018
Member, Indian Society of Agronomy	2015
Fellow, Green Talents, Federal Ministry of Education and Research, Germany	2013
Member, Nigerian Institute of Management (Chartered)	2008

## PROFESSIONAL DEVELOPMENT AND TRAINING

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Advanced Management Programme – Dangote Academy, Nigeria	2017
Certificate in Renewable Energy and Policy, TERI University, India	2016
Economics of Climate-Resilience Development– World Bank Institute, Washington, DC	2013
E-governance and Desertification, Indian Geomatic Society	2011
Proficiency Certificate in Management,	2008
International Centre for Leadership and Entrepreneurial Development, Nigeria	2008

## COMMUNITY SERVICE

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Coconut Industry Development Initiative, Member, Board of Trustee, Nigeria	2018 – Present
Network of African Youth for Development, Research Officer, Nigeria	2016 – 2017
Postgraduate Agronomy Club, General Secretary, University of Ibadan, Nigeria	2009 – 2010
National Youth Service Corps, Secretary, Independent Corrupt Practices Commission, Nigeria	2006 – 2007

## LANGUAGES

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English: Advanced in speaking, reading and writing

## REFERENCES

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### **Prof. Malachy Akoroda**

Department of Agronomy  
University of Ibadan, Nigeria  
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### **Dr. Ravish Maheshwari**

Former Vice Chancellor  
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### **Prof. Olatunji Oluwasemire**

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### **Dr Kolawole Banwo**

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**PUBLICATIONS (h-Index: 6)**

<https://orcid.org/0000-0001-6712-476X>

<https://scholar.google.co.in/citations?user=x7cBY-4AAAAJ&hl=en>

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**Book Chapters: Peer-reviewed Journals**

**Anthony Imoudu Oyeogbe, (2021)** Nitrogen management in conservation agriculture. In "Nitrogen in Agriculture - Physiological, Agricultural and Ecological Aspects" Open Access book edited by Dr. Takuji Ohshima and Dr. Kazuyuki Inubushi. IntechOpen Publishers, UK. ISBN: 978-1-83968-492-0.

**Oyeogbe Anthony Imoudu and U.K. Behera (2015)** Conservation agriculture in Africa: Practices, problem and prospects– a review. In: Advances in Soil and Water Resource Management for Food and Livelihood Security in Changing Climate eds. (S. Bhan and S. Arora). Soil Conservation Society of India, New Delhi. pp. 479–492. ISBN: 978-81-909228-5-2.

**Full Journal Articles: Peer-reviewed Journals**

**Anthony Oyeogbe (2023)** Stimulating Ecological Intensification of Cropping Systems in Nigeria – Short-Term Impact of Ecological Cropping Systems on Maize Productivity, Weed Management, Soil Health, and Nitrogen Fertilizer Economy. FARA Research Report Vol 7(73):948-957. <https://doi.org/10.59101/fr072373>.

**Oyeogbe, Anthony Imoudu, Brayn Ogbemudiamen Ehanire, Joshua Nosagie Otoadese (2022).** Influence of organic residues on soil carbon sequestration under monoculture and perennial systems in tropical rainforest of Nigeria. *Future of Food: Journal on Food, Agriculture and Society* (1): 30-36. DOI:10.17170/kobra-202110144901

**Oyeogbe Anthony Imoudu, Joshua Otoadese, and Bryan Ehanire (2021).** Diversification of maize-based cropping systems in tropical rainforest agroecosystem of Nigeria: productivity, profitability and soil fertility. *Future of Food: Journal on Food, Agriculture and Society* 9(1):60-66. DOI: 10.17170/kobra-202011192213

**Oyeogbe Anthony Imoudu, T. K. Das, K.K. Bandyopadhyay (2018)** Agronomic productivity, nitrogen fertilizer savings and soil organic carbon in conservation agriculture: Efficient nitrogen and weed management in maize-wheat system. *Archives of Agronomy and Soil Science* 1635-1645. [doi.org/10.1080/03650340.2018.1446524](https://doi.org/10.1080/03650340.2018.1446524)

**Oyeogbe Anthony Imoudu, T.K. Das et al. (2018)** Weed and nitrogen management effects on weed suppression, soil properties and crop productivity in a maize – wheat cropping system under conservation agriculture. *Indian Journal of Agricultural Sciences* 88(11):1685-1691. <https://epubs.icar.org.in/index.php/IJAgS/article/view/84893>

**Oyeogbe Anthony Imoudu, T.K. Das, Arti Bhatia and Shashi Bala Singh (2017)** Adaptive nitrogen and weed management in conservation agriculture: Impacts on agronomic productivity, greenhouse gas emissions and herbicide residues. *Environment Monitoring and Assessment*. 4:189-198. [doi.org/10.1007/s10661-017-5917-3](https://doi.org/10.1007/s10661-017-5917-3)

**Oyeogbe Anthony Imoudu and T.K. Das (2015)** Decoupling trade-offs in conservation agriculture: Sensor-aided nitrogen management in wheat. *Earthdoc. EAGE* 1-5. [doi.org/10.3997/2214-4609.201413849](https://doi.org/10.3997/2214-4609.201413849)

**Oyeogbe Anthony Imoudu, Ranti Ogunshakin, Shravansinh Vaghela and Babubhai Patel (2015)** Towards sustainable intensification of sesame-based cropping systems diversification in Northwestern India. *Journal of Food Security* 3(1)1-5. DOI: 10.12691/jfs-3-1-1

**Oyeogbe Anthony Imoudu, Shravansinh Vaghela and Babubhai Patel (2015)** Economics of sesame-based cropping systems intensification and diversification in North Gujarat, India. *American Journal of Agricultural Science* 2(3)85-90. <http://www.aascit.org/journal/archive2?journalId=892&paperId=1680>

**Oyeogbe Anthony Imoudu and K.O. Oluwasemire (2013)** Evaluation of SOILWAT model for predicting soil water characteristics in Southwestern Nigeria. *International Journal of Soil Science* 8(2)58-67. [doi=ijss.2013.58.67](https://doi.org/10.1007/s10661-013-58.67)

**Oyeogbe Anthony Imoudu**, K.O. Oluwasemire and G.E. Akinbola (2012) Modelling soil water characteristics of an inland valley soil. *Indian Journal of Agricultural Research*, 46(4)317-323. [arccjournals.com/journal/indian-journal-of-agricultural-research/ARCC392](http://arccjournals.com/journal/indian-journal-of-agricultural-research/ARCC392)

Are Kayode Steven, Ayodele Olumide Adelana, Olateju Dolapo Adeyolanu, **Oyeogbe Anthony Imoudu**, Lucas Adelabu (2012) Comparative effects of composted vetiver grass, vetiver hedgerows and vetiver mulch on soil quality and erodibility of a sloping land. *Agricultura tropica et subtropica* 45(4)189-198.

**Journal Paper under Review:**

**Oyeogbe Anthony Imoudu**, Anne Jansen-Willems and Nicole Wrage-Mönnig. Phosphorus addition decreased nitrifiers' nitrate production in a temperate agricultural soil at low water contents. *Journal of Soil Science and Plant Nutrition*

**Conference Proceedings and Presentations:**

**Oyeogbe Anthony Imoudu (2023)** Supporting rural regeneration through multifunctional agriculture. Oral presentation at the 54th annual conference of Irish geographers. May 16-19, 2023, Wexford, Ireland. Pp 48.

**Oyeogbe Anthony Imoudu** and Nicole Wrage-Mönnig (2019) Phosphorus as a cue regulating microbial N transformation in grassland soil. Oral presentation at Phosphorus Campus Symposium, Nov. 12-13, IOW, Warnemünde, Rostock, Germany.

**Oyeogbe Anthony Imoudu**, T.K Das (2018) Decoupling greenhouse gases emissions in conservation agriculture system: adaptive nitrogen and weed management. International Conference on Agricultural GHG Emissions and Food Security – Connecting research to policy and practice. September 10 – 13, 2018 Berlin, Germany.

**Oyeogbe Anthony Imoudu**, T.K Das (2018) Decoupling greenhouse gases emissions in conservation agriculture system: adaptive nitrogen and weed management. International Conference on Agricultural GHG Emissions and Food Security – Connecting research to policy and practice. September 10 – 13, 2018 Berlin, Germany

**Oyeogbe Anthony Imoudu** and T.K Das (2018) Enhancing the Productivity of Conservation Agriculture: Nitrogen and Weed Management in Maize-Wheat System of the Indo-Gangetic Plains. 42nd Annual Conference of Soil Science Society of Nigeria. Institute of Agricultural Research and Training, Obafemi Awolowo University, Ibadan, Nigeria. 12-16 March 2018.

**Oyeogbe Anthony Imoudu (2017)** Exploring New Herbicide in Sugarcane: Reducing Herbicide Dose for Sustainable Weed Management. Oral Presentation– 45th Annual Conference of the Weed Science Society of Nigeria, Modibbo Adama University of Tech., Yola. 5-8 Nov., 2017.

**Oyeogbe Anthony Imoudu (2017)** Sustainable Weed Management in conservation Agriculture-based maize wheat systems. Oral Presentation– 45th Annual Conference of the Weed Science Society of Nigeria, Modibbo Adama University of Technology, Yola. 5-8 Nov., 2017.

**Oyeogbe Anthony Imoudu** and T.K. Das (2016). Conservation agriculture influences yield sustainability and carbon sequestration: Sensor-based nitrogen and integrated weed management. Oral Presentation– International Conference on Conservation Agriculture and Sustainable Land Use. Hungarian Academy of Sciences, May 31– June 2, 2016. Budapest, Hungary. Pp. 76.

**Oyeogbe Anthony Imoudu**, T.K. Das, K.K. Bandyopadhyay (2016). Conservation agriculture influences yield sustainability and soil properties under a sensitive nitrogen and weed management in the western Indo-Gangetic Plains. Oral Presentation–7th International Crop Science Congress. August 14-19, 2016, Beijing, China.

**Oyeogbe Anthony Imoudu**, T.K. Das, Arti Bhatia (2016). Decoupling greenhouse gas emissions and herbicide residues in conservation agriculture system in the western Indo-Gangetic Plains: Precision nitrogen and weed management strategy. Oral Presentation–7th International Crop Science Congress. August 14-19, 2016, Beijing, China.

**Oyeogbe Anthony Imoudu** and T.K. Das (2015) Decoupling trade-offs in conservation agriculture: sensor-aided nitrogen management in wheat. Oral Presentation and Proceedings of the First Proximal Sensing Supporting Precision Agriculture Conference. 6-10 Sept 2015. Turin, Italy. Pp. 1-5

**Oyeogbe Anthony Imoudu (2015)** Sensor-aided conservation agriculture: climate-smart nitrogen and weed management in maize-wheat system. Global Science Conference on Climate-Smart Agriculture, 16-18 March 2015, Montpellier, France. Pp. 126

**Oyeogbe Anthony Imoudu** and U.K. Behera (2015) Conservation agriculture in Africa: Practices, problems and prospects. Oral Presentation and Proceedings at the International Conference on Natural Resource Management for Food Security and Rural Livelihoods 10-13 Feb., 2015, New Delhi, India. Pp. 79.

**Oyeogbe Anthony Imoudu** and T.K. Das (2015). Precision Conservation Agriculture for Managing Nitrogen and Weed in Maize-Wheat System. Oral Presentation–TERI University, Delhi Sustainable Development Summit, 5-7 Feb., 2015. New Delhi, India.

**Oyeogbe Anthony Imoudu** and T.K. Das (2014) Precision conservation agriculture toward sustainable intensification: innovative strategy for nitrogen and weed management. Oral Presentation at the Fourth conference on Climate Change and Development in Africa 8-10 Oct. 2014. Marrakesh, Morocco.

**Oyeogbe Anthony Imoudu** and K.O. Oluwasemire (2011). Modelling soil water characteristics of an inland valley bottom soil, Oral Presentation and Proceedings–3rd IDSAsr International Seminar on Water Security and Climate Change: Challenges and Strategies, 4-7 Nov., 2011, Amritsar, India. Pp. 101-109.

**Oyeogbe Anthony Imoudu (2013)** Modelling soil water retention of southwestern Nigeria, Oral Presentation–India Water Week, International conference on Efficient Water Management: Challenges and Opportunities, 8-12 April, 2013, New Delhi, India. Pp. 119.

**Oyeogbe Anthony Imoudu (2013)** Productivity, soil fertility and economics as influenced by different sesame-based cropping systems. National Conference on Innovative Approaches to Crop Improvement and adaptation Meeting Challenges of Climate Change. University of Agricultural Sciences, Bangalore, India 22-24 Feb., 2013. Pp. 54.

**Oyeogbe Anthony Imoudu (2011)** Comparative effects of composted vetiver grass, vetiver hedgerows and vetiver mulch on soil quality and erodibility of a degraded soil, Oral Presentation at the 5th International Conference on Vetiver and Climate Change. 28-30 Oct., 2011, Lucknow, India.

**Oyeogbe Anthony Imoudu** and K.O. Oluwasemire (2011). Soil water characteristics of Southwestern Nigeria: Measurement vs. Simulation, Oral Presentation and Proceedings, National Conference of Indian Society of Geomatics "Climate Change with Special emphasis on Desertification", 1-5 Feb., 2011, Ajmer, India. Pp. 17-18.