

## HARUNA, SAMUEL IDOKO

### EDUCATION

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University of Missouri, Columbia, Missouri, USA.	Ph.D.	2017.	Soil Science
Lincoln University, Jefferson City, Missouri, USA.	M.S.	2013.	Environmental Science
Kogi State University, Anyigba, Nigeria.	B.Sc.	2008.	Geology

### MOST CURRENT PROFESSIONAL EXPERIENCE

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2017 – Present.           Assistant Professor of Plant and Soil Science, School of Agriculture,  
Middle Tennessee State University, Murfreesboro, TN.

### SELECTED PROFESSIONAL SERVICE

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Invited Grant Review: Israeli Science Foundation, Southern Sustainable Agriculture Research and Education (SSARE).

Journal Reviewer: Scientific Reports, European Journal of Soil Science, Soil Science Society of America Journal, Archives of Agronomy and Soil Science, Journal of Soil and Water Conservation, Canadian Journal of Soil Science, Australian Soil Research Journal, Agronomy Journal, Agriculture, Sustainability journal, Water Journal, Land, South African Journal of Plant and Soil.

### FUNDED RESEACH GRANTS

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**Haruna, S.I.**, S. Ku, S. Cui, M. Chaney, E. Ritchey, and A. Gamble. 2020. Cover crops and cropping system sustainability in a changing global climate. Southern Sustainable Agriculture, Research and Education grant. \$299,995 (PI)

Ku, S., T. Johnston, **S. Haruna**, and Y. Gao. 2019. Early detection of food pathogens via crossflow nano/microfiltration process from leafy greens and irrigation water. Tennessee Department of Agriculture Specialty Crop Block Grant. \$36,964. (Co-PI).

Strobel, D., N. Phillips, and **S. Haruna**. 2018. Pollinator week and field day for honeybees. Middle Tennessee State University Public Service Fund. \$2,465. (Co-PI).

**Haruna, S.I.**, and N.S. Chong. 2017. Influence of cover crop on greenhouse gas emissions. Middle Tennessee State University Faculty Research and Creative Activity Grant. Index Number: 221729. \$9,860. (PI).

## SYNEGISTIC ACTIVITES

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Dr. Haruna's research has revolved around understanding the influence of crop and land management practices on soil health indicators. He has also conducted research into the spatial variability of soil physical and chemical properties. Furthermore, he has also conducted research into the influence of cover crops on soil hydraulic properties, laboratory measured soil thermal properties and *in situ* infiltration parameters. *He has taught classes in Fundamentals of Soil Science, Soil and Water Conservation, Soil Physical Properties, Genesis of Soil Landscapes, and Soil Fertility at Middle Tennessee State University* and assisted with teaching Soil Physics laboratory at University of Missouri, Columbia. He has also assisted with teaching Geographic Information Systems at Lincoln University, Missouri. His knowledge and expertise will ensure the successful completion of the project objectives.

## REFEREED PUBLICATIONS (Since 2018)

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- Haruna, S.I.**, and S.H. Anderson. 2020. No-till farming systems for enhancing soil water storage. In: Dang, Y., Dalal, R., and Menzies N. (eds). No-till farming systems for sustainable agriculture. Springer, Cham. Pp. 213-231. [https://doi.org/10.1007/978-3-030-46409-7\\_13](https://doi.org/10.1007/978-3-030-46409-7_13).
- Haruna, S.I.**, and N.V. Nkongolo. 2020. Influence of cover crop, tillage, and crop rotation management on soil nutrients. *Agriculture*. 10:225-233. [doi.org/10.3390/agriculture10060225](https://doi.org/10.3390/agriculture10060225).
- Haruna, S.I.** 2019. Influence of winter wheat on soil thermal properties of a *Paleudalf*. *International Agrophysics*. 33 (3):389-395. Doi: <https://doi.org/10.31545/intagr/110850>.
- Haruna, S.I.**, and N.V. Nkongolo. 2019. Tillage, cover crop and crop rotation effects on selected soil chemical properties. *Sustainability*. 11:2770. Doi:10.3390/su11102770.
- Zaibon, S., S.H. Anderson, K.S. Veum, and **S.I. Haruna**. 2019. Soil thermal properties affected by topsoil thickness in switchgrass and rowcrop management systems. *Geoderma*. 350:93-100. [doi.org/10.1016/j.geoderma.2019.05.005](https://doi.org/10.1016/j.geoderma.2019.05.005)
- Haruna, S.I.**, S.H. Anderson, N.V. Nkongolo, and S. Zaibon. 2018. Soil hydraulic properties: influence of tillage and cover crops. *Pedosphere*. 28(3): 430-442. [https://doi.org/10.1016/S1002-0160\(17\)60387-4](https://doi.org/10.1016/S1002-0160(17)60387-4)
- Haruna, S.I.**, N.V. Nkongolo, S.H. Anderson, and S. Zaibon. 2018. In situ infiltration as affected by tillage and cover crop management. *J. Soil Water Conservation*. 73 (2): 164-172. [doi:10.2489/jswc.73.2.164](https://doi.org/10.2489/jswc.73.2.164).
- Cercioglu, M., S.H. Anderson, R.P. Anderson, and **S.I. Haruna**. 2018. Effects of cover crop and biofuel crop management on computed tomography-measured pore parameters. *Geoderma*. 319: 80-88. [doi.org/10.1016/j.geoderma.2018.01.005](https://doi.org/10.1016/j.geoderma.2018.01.005).
- Haruna, S.I.** 2018. Musing on conservation agriculture. *Current Investigations in Agriculture and Current Research*. 1(5)-2018. CIACR.MS.ID.000125.