TOSIN OGUNMAYOWA
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EDUCATION

Virginia Tech, Blacksburg, Virginia

- PhD Candidate, Population Health Sciences — Expected Graduation: July 2023

Virginia Tech, Blacksburg, Virginia

- M.S., Environmental Sciences — May 2020

Tennessee State University, Nashville, Tennessee

- M.S., Agriculture — December 2015

WORK EXPERIENCE

Graduate Intern — May 2021 – Present
Center for Biostatistics and Health Data Science
Virginia Tech

- Data preparation, data analysis, and data visualization involving using SAS and R.
- Preparation of statistical analysis plan and summary report of data analysis.
- Preparation of manuscripts for publication.

Graduate Research and Teaching Assistant — May 2020 – Present
Department of Population Health Sciences
Virginia Tech

- Data collection, preparation, and analysis to understand the multilevel structural and social determinants of health disparities using statistical and geographic information system (GIS) software, including R, SAS, JMP, Minitab, SPSS, HLM, ArcGIS and QGIS.
- Serve as teaching assistant for undergraduate and graduate-level Epidemiology and Quantitative Method in Public Health classes.
- Coordinate class activities and evaluate students.
- Assist students with data analysis and in trouble shooting R statistical software.

Graduate Assistant — Aug. 2019 – May 2020
Graduate School Office of Recruitment, Diversity and Inclusion
Virginia Tech

- Assisted Virginia Tech Graduate School with innovative recruitment and promoted diversity and inclusion initiatives that enhance graduate student life.
- Provided tour of the university campus to prospective graduate students.
- Attended graduate school recruitment fairs to recruit prospective graduate students.
- Used Qualtrics to build survey to manage registration for events, analyze responses and obtain feedback from students after events.

Graduate Teaching and Research Assistant — Aug. 2017 – July 2019
Department of Crop and Soil Environmental Sciences
Virginia Tech

- Served as instructor for undergraduate soils laboratory.
- Coordinated laboratory, delivered course content and instruction, and evaluated students.
- Conducted field trips to provide students with real-world learning experiences.
- Data collection and analysis to understand the multiscale landscape and environmental drivers of water quality in the United States using statistical and geographic information system (GIS) software such as R, JMP, Minitab, SPSS, HLM, ArcGIS and QGIS.

Lecturer Dec. 2015– Aug. 2016
Department of Soil Science and Land Management
University of Benin, Benin City, Nigeria.

- Served as course instructor for Introduction to Soil Science and Land Management course.
- Designed and delivered course content and evaluated students.
- Differentiate instruction to suit the needs of students with different learning aptitude.

Graduate Research Assistant Aug. 2013– Dec. 2015
Department of Agriculture and Environmental Sciences
Tennessee State University, Nashville, Tennessee.

- Developed a method for bioremediation of mixed contaminants which significantly reduced heavy metals and pesticide pollution in soils.
- Assisted in developing a suitable method for the beneficial utilization of coal fly ash in enhancing biofuel feedstock production.

LEADERSHIP & COMMUNITY SERVICE

Graduate Student Ambassador, Virginia Tech Graduate School Sept. 2021 - Present

- Assist Virginia Tech Graduate School to promote and facilitate diversity, equity, and inclusion events that enhance graduate student life.
- Provide mentorship to new graduate students.

Graduate Students Representative, Graduate Student Assembly, Virginia Tech Aug. 2018 – Dec. 2018

- Represent graduate students' interests and facilitated information exchange between the University and Graduate Students.
- Promoted graduate student opinion and concerns to the University.
- Assisted the International Student Committee to forge partnership with Virginia Tech's Career Center to provide better guidance to international graduate students in career preparation and exploration in order to help them meet their career goals.

Student Staff Leader, Black College Institute, Virginia Tech Summer 2018 & 2019

- Mentored and inspired minority high school students and positively exposed them to college experience, helping them to explore college environment and provided guidance about college seeking process.
- Provided guidance to students to work as a team and think creatively to complete projects that involved identifying a social issue in their community and developing an action plan for the issue.

Student Leader, InterVarsity Graduate Christian Fellowship, Virginia Tech Aug. 2017 – Aug. 2018

- Co-led a group of graduate students with diverse background to explore how Christian faith informs academic and professional work and provided support and encouragement needed to thrive in graduate school.
- Increased membership of the group from two (2) to 10 by creating an environment that was welcoming to people of different background.

Social Media Coordinator, University of Benin Faculty of Agriculture Alumni Jan. 2016 – Dec. 2017

- Assisted in creating a social media platform where alumni members can interact, share ideas, market their products, share jobs, scholarships and study abroad opportunities.
- Coordinated the alumni social media platform, provided information and assistance about jobs, scholarships, and study abroad opportunities.

MEMBERSHIPS

American Public Health Association	2020 – Present
Virginia Public Health Association	2021 – Present
Virginia Rural Health Association	2021 – Present
Golden Key International Honor Society	2013 – Present

PUBLICATIONS

Ogunmayowa, O., & Baker, C. (2022). Neighborhood risk factors for sports and recreational injuries: a systematic review of studies applying multilevel modeling techniques. *Inj. Epidemiol.* **9,** 6 (2022). https://doi.org/10.1186/s40621-022-00370-0.

Ogunmayowa, O., & Baker, C. (2022). Historical redlining and neighborhood social vulnerability in the United States: The role of change in access to education in cities. Manuscript in preparation.

Nicchitta, N, **Ogunmayowa, O.**, Baker, C., & Atkinson, M. M. (2022). Sickle cell disease in southwest Virginia: Morbidity, acute care utilization, and the effects of social determinants of health in a mixed rural/urban medically underserved community. *Authorea.* March 30, 2022. https://doi.org/10.22541/au.164865137.74003196/v1

Jian, J., Yuan, X., Steele, M. K., Du, C., & **Ogunmayowa O.** (2020). Soil respiration spatial and temporal variability in China between 1961 and 2014. Eur J Soil Sci. 2020;1–17. https://doi.org/10.1111/ejss.13061

Dzantor, E. K., Adeleke, E., Kankarla, V., **Ogunmayowa, O.**, & Hui, D. (2015). Using coal fly ash in agriculture: combination of fly ash and poultry litter as soil amendments for bioenergy feedstock production. *CCGP*, *7*, 33-39. doi: 10.4177/CCGP-D-15-00002.1.

Dzantor E. K., Kankarla, V., Adeleke, E. & **Ogunmayowa, O.** (2015). Contending with the global food, energy and environmental insecurities: Biomass production in degraded lands could be one solution. Pp 261-271, In R. K. Behl, A. P. Singh, A. B. Lal, G. Haesaert (eds). Proceedings of the International Conference on New Approaches in Food Security and Value Addition: Technological and Genetic Options. February 17-19, 2014 ISBN: 978-93-81191-05-7.

Ogunmayowa, O. (2020). Quantifying the effects of watershed size and land development on stream nutrients. [Master's Thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA]. VTechWorks. https://vtechworks.lib.vt.edu/handle/10919/106543.

Ogunmayowa, O. (2015). Coupling bio/phytoremediation with switchgrass to biofuel feedstock production in mixed-contaminant soils. (ProQuest No. 10003158) [Master's thesis, Tennessee State University, Nashville, TN]. ProQuest Dissertations Publishing. https://digitalscholarship.tnstate.edu/dissertations/AAI10003158/.

PRESENTATIONS

Ogunmayowa, O. & Baker, C. (2022). The effects of historical redlining on present-day neighborhood vulnerability in the United States. Poster presentation at the Virginia Public Health Association Annual Conference and Research Day.

Ogunmayowa, O. & Baker, C. (2021). Application of multilevel modeling in sports and recreational injuries studies. Oral presentation at the virtual Pre-conference Global Injury Prevention Showcase 2021. http://dx.doi.org/10.1136/injuryprev-2021-safety.97.

Ogunmayowa, O. & Baker, C. (2021). Area-level risk factors for sports and recreational injuries: A systematic review of studies applying multilevel modeling techniques. Poster presentation at the VCOM Via Research Recognition Day. https://cld.bz/xWLxicy/114/.

Ogunmayowa, O. & Steele, M. K. (2020). Cross-scale interactions alter stream nutrient responses to watershed land development. Poster presentation at the Ecological Society of America (ESA) Annual Meeting.

Ogunmayowa, O. & Steele, M. K. (2020). Variation in region-average stream nutrient concentrations and rate of change in stream nutrient concentrations with increasing watershed urban and agricultural land cover intensities across the United States. Map showcase at the Map Gallery of 2020 ESRI User Conference.

Ogunmayowa, O. & Steele, M. K. (2019). Cross-scale interactions alter nutrient concentrations of developed watersheds. Poster presentation at the School of Plant and Environmental Sciences Graduate Student Research Symposium.

Ogunmayowa, O. & Steele, M. K. (2018). Exploring the macroscale variation in nutrient loads via scaling function. Poster presentation at the American Geophysical Union (AGU) Fall Meeting.

Ogunmayowa, O. & Steele, M. K. (2018). The scaling of nutrient loads as a function of watershed size. Poster presentation at the School of Plant and Environmental Sciences Graduate Student Research Symposium.

Ogunmayowa, O., Dzantor, E. K. & Adeleke, E. (2015). Coupling bio/phytoremediation with switchgrass to biofuel feedstock production in mixed-contaminant soils. Poster presentation at Agronomy Society of America Annual Meeting.

Ogunmayowa, O., Dzantor, E. K. & Adeleke, E. (2015). Coupling bio/phytoremediation with switchgrass to biofuel feedstock production in mixed-contaminant soils. Oral presentation at Tennessee State University Research Symposium.

DISTINCTIONS/AWARDS:

- Ecological Society of America Annual Meeting Registration Grant (2020).
- Golden Key International Honor Society Research Grant Award ($2,500) (2015).
- Federal Government of Nigeria Tertiary Education Trust Fund (TETFund) Scholarship Award ($39,000) (2013).

CERTIFICATES

- Biomedical Research Course Certificate, CITI Program (2020).
- Social and Behavioral Research Course Certificate, CITI Program (2020).
- Basic Responsible Conduct of Research Course Certificate, CITI Program (2020).
- Research Conflict of Interest Training for Investigators, CITI Program (2020).
- COVID-19 Contact Tracing Course Certificate, Johns Hopkins University (2020).
- Professional Development Program, Virginia Tech Graduate School (2019).
- Going Places with Spatial Analysis, ESRI (2016).

SKILLS: Microsoft Office Suite, G Suite, JMP, Minitab, SPSS, HLM, SAS, R, ArcGIS and QGIS.