Ayorinde Ogunyiola
August 2022

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EDUCATION

August 2021   South Dakota State University, United States
Ph.D., Sociology

July 2017   Jomo Kenyatta University of Agriculture and Technology
& Pan African University, Kenya
M.S. Mathematics, (finance)

June 2014   University of Ibadan, Nigeria
M.S. Economics

January 2010   Ahmadu Bello University, Nigeria
B.S., Economics

RESEARCH INTERESTS

Climate Change; Precision Agriculture; Responsible Innovation; Science and Technology Studies; Computational Social Science

EMPLOYMENT

Current Position

2022 – present   Murray State University, KY
Visiting Assistant Professor, Department of Political Science and Sociology

Prior Employments

2021 – 2022   Purdue University, West Lafayette, Indiana
Post-Doctoral Fellow, Department of Forestry and Natural Resources

2019 – 2021   University of Illinois at Urbana-Champaign, Illinois
NSF-INFEWS Graduate Fellow, National Center for Supercomputing Applications (NSCA)

2019 –2021   South Dakota State University, Brookings, South Dakota
Graduate Research Assistant

2018– 2020   South Dakota State University, Brookings, South Dakota
Graduate Teaching Assistant

2010 – 12   Jomo Kenyatta University of Agriculture & Technology, Kenya
Lecturer, Department of Economics, Accounting & Finance

2010-2015   Centre for Growth and Development
Research Associate

FELLOWSHIPS & AWARDS

2022	Don Lavoie Fellow, Mercatus Center, George Mason University
2020-2021	NSF INFEWS Graduate Mentor Fellow, University of Illinois at Urbana-Champaign. ($5000)
2021	Robert T. and Mary K. Wagner Graduate Scholarship in Sociology
2020	Travel Award, The Rural Sociological Society
2020	Travel Award, Midwest Sociological Association
2019	Travel Award, Midwest Sociological Association
2014 – 2016	African Union fellowship
2013 – 2014	Oyo State Government Scholarship

RESEARCH GRANTS

2022	**Excellence in Computational Social Science Research,** *SICSS-Howard Mathematica* ($2,500)
2016 -2017	**African – ai- Japan Research Grant** (US$3,000).

PUBLICATION

Selected Peer Reviewed Articles

1. **Ogunyiola, A.,** & Gardezi, M. (2022). Restoring sense out of disorder? Farmers' changing social identities under big data and algorithms. Agriculture and Human Values. https://doi.org/10.1007/s10460-022-10334-1

2. **Ogunyiola, A**., Gardezi, M., and Vij, S. (2022). Smallholder farmers' engagement with climate smart agriculture in Africa: Role of local knowledge and upscaling. *Climate Policy.* https://doi.org/10.1080/14693062.2021.2023451

3. Stablein, M. J., Gonzalez Cruz, J., Fidan, E. N., Talbot, J., Reed, S. P., Walters, R. S., **Ogunyiola, A**, Frey M.F., Ramirez, M. Casanovag, R.B., Heemstraa, J., Marshalla, A. & Rodríguez, L. F. (2022). Compound[ing] disasters in Puerto Rico: Pathways for virtual transdisciplinary collaboration to enhance community resilience. Global Environmental Change, 76, 102558. https://doi.org/10.1016/j.gloenvcha.2022.102558

4. Gardezi, M**.**, Michael, S., Stock, R., Vij, S., **Ogunyiola, A**., and Ishtiaque, A. (2022). Prioritizing climate-smart agriculture: An organizational and temporal review. *Wiley Interdisciplinary Reviews: Climate Change,* WCC755. https://doi.org/10.1002/wcc.755

5. Gardezi, M., Adereti, D. T., Stock, R., & **Ogunyiola, A**. (2022). In pursuit of responsible innovation for precision agriculture technologies. Journal of Responsible Innovation, 1-24. https://doi.org/10.1080/23299460.2022.2071668

6. Dada, O., & **Ogunyiola, A.** (2021). A preliminary impact assessment of social distancing on food systems and greenhouse gas emissions. Journal of Human Behavior in the Social Environment, 31(1-4), 254-261. https://doi.org/10.1080/10911359.2020.1816242

7. Avemegah, E., Gu, W., Abulbasher, A., Koci, K., **Ogunyiola, A**., Eduful, J., Li, S., Barington, K., Wang, T., Kolady, D., Perkins, L., Leffler, A.J Kovács, P., Clark, J. D. Clay, D., E. & Ulrich-Schad, J. D. (2021). An Examination of Best Practices for Survey Research with Agricultural Producers. *Society & Natural Resources, 34*(4), 538-549. https://doi.org/10.1080/08941920.2020.1804651

8. **Ogunyiola, A**., Mwita, P.N., & Njenga, C., (2017) Estimating Dependence structure and risk of a financial market crash. International Journal of Statistics and Probability, 5(6), 85-93.

9. **Ogunyiola, A**., (2015) An Analysis of Shale Oil Development and Its implications for OPEC Exporting Nations: Evidence from Nigeria. Nigerian Association of Energy Economist/International journal of energy economist. April 26-28, 2015.

10. **Ogunyiola A.**, and Garba, A.G., (2014) An Analysis of the Structural and Employment Implications of the 2014 GDP Rebasing in Nigeria. Journal of Economic Studies (NJES), 183 – 200.

Peer Reviewed Book Chapter

1. Posadas B., **Ogunyiola A.**, & Niewolny K. (2022) "Socially responsible AI assurance in precision agriculture for farmers and policymakers." In AI assurance towards trustworthy, explainable, safe, and ethical AI, forthcoming, October 18, 2022

ARTICLES UNDER REVIEW

1. **Ogunyiola, A.**, Ryan, S., and Gardezi, M., "Precision agriculture and the future of agrarian labor in the US food system." Under review

2. **Ogunyiola, A.**, and Gardezi, M., "Perceptions and expectations of food system actors about big data ownership, privacy, and security" Under review

3. **Ogunyiola A**., Esman L. A., Geston J.M, Behbehani L., Popovici R., Radulski B. Prokopy L.S. Explaining the relationship between climate change and solar energy acceptance on different land uses among Indiana residents." Under review

4. Gardezi, M., Prutzer E., **Ogunyiola, A.**, Ryan B., and Asim, Z., "Envisioning the role of precision agriculture for sustainability." Under review

COURSES TAUGHT

Introduction to Sociology; Medical Sociology; Research Methods; Macroeconomics; Health Economics; Econometrics

INVITED TALKS

1. "Exploring the socio-ethical dilemmas of precision agriculture". Virginia Polytechnic Institute and State University. March 2021

Conference Presentations

1. Factors influencing farmer's Willingness to Use Extended Rotations: A Comparative Study in Indiana and Iowa. *Soil and water conservation society*. Denver Colorado. August 3, 2022.

2. Characterizing success within Farmer-led Networks across the United States. *Soil and water conservation society*. Denver Colorado. August 3, 2022.

3. Virtual Transdisciplinary Collaborations in Disaster Relief and Resilience. *University of Idaho*, May 5, 2022.

4. Envisioning the role of precision agriculture in food system sustainability transitions. Society for Social Studies of Science Annual Meeting 2021 – "Virtual Toronto"

5. Prioritizing Climate-smart Agriculture (CSA): An organizational analysis. *South Dakota State University Data Science symposium*. February 5, 2019.

6. Poster presentation: Women and poverty in Saudi Arabia. *Midwest Sociological Association*. Chicago. April 20, 2019.

7. Shrinking Middle Class in the United States: The Role of Occupational change. *Midwest Sociological Association* April 19, 2019

8. An Analysis of Shale Oil Development and Its implications for OPEC Exporting Nations: Evidence from Nigeria. *NAEE/IAEE, University of Ibadan, 2015*.

9. An Analysis of the Structural and employment and Employment Implications of the 2014 GDP Rebasing in Nigeria. Nigerian Economics Society. Abuja, February 2014.

Professional Service
Peer Reviewer for:
Journal of Rural Studies

Professional Memberships

S4 Society for Social Studies of Science; Rural Sociological Society; Midwest Sociological Society; American Sociological Association

TECHNICAL KNOWLEDGE
Proficient Knowledge in SPSS, R, Python, Matlab, C++, S-PLUS, Eviews, STATA, SAS, ArcMap, and ArcGIS Online.