

# AMINATA PETER KILUNGO

## CURRICULUM VITAE

Mel and Enid Zuckerman College of Public Health  
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### **EDUCATION**

- PhD **Soil, Water and Environmental Science**, minor in **Microbiology**, College of Agriculture and Life Sciences, The University of Arizona, 2013.  
Dissertation Title: Water Quality Monitoring
- BSc Environmental Science, College of Agriculture and Life Sciences. the University of Arizona, 2008.

### **EMPLOYMENT**

- 2023 - Present Associate Professor and Program Director, Environmental Health Sciences, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson AZ.
- 2020 - Present Co-Lead Faculty, One Health Educational Programs, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson AZ.
- 2019 - 2023 Assistant Professor and Program Director, Environmental Health Sciences, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson AZ.
- 2017 - 2019 Lecturer, Health Promotion Sciences, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson AZ.
- 2015 - 2017 Director of Research and Development, Sonora Environmental Research Institute, Inc., Tucson AZ.
- 2014 - 2015 Senior Environmental Scientist Contractor, Xcel Engineering at US Army Garrison, Fort Huachuca, Sierra Vista AZ.
- 2010 - 2014 Program Manager, Sonora Environmental Research Institute, Inc., Tucson AZ.
- 2008 - 2009 Junior Scientist, Geosystem Analysis, Inc., Tucson, AZ.

## **HONORS AND AWARDS**

- 2022 Faculty Excellence in Teaching Award, The University of Arizona.
- 2011 - 2012 Alfred P. Sloan Foundation, National Action Council for Minorities in Engineering Scholarship.
- 2010 - 2011 Graduate Diversity Award, The University of Arizona.

## **SERVICE/OUTREACH**

### **International**

- 2023 - Present Lead, Public Health and Climate Change Thematic Group, Research, and Independent Non-Governmental Organizations (RINGO) – a constituency of the United National Framework Convention for Climate Change (UNFCCC).

### **National**

- 2023 - Present Reviewer, National Institute of Health (NIH) – Exploratory Grants for a Climate Change and Health Developmental Center; Centers for Oceans and Human Health 4: Impact of Climate Change on Oceans and Great Lakes; and Social Sciences and Population Studies.
- 2020 - 2023 Future of Environmental Health Training Committee, University of Minnesota, Minneapolis MN.
- 2016 - 2023 Advisor, National Advisory Committee (NAC), U.S Environmental Protection Agency (U.S. EPA), Washington DC.
- 2016 - 2019 Stakeholder Advisory Committee, Urban Water and Innovation Network (UWIN), Tucson AZ.

### **Department**

- 2019 - Present Faculty Annual Performance Review (APR) Committee, Community Environment and Policy, and Enid Zuckerman College of Public Health, The University of Arizona.
- 2018 Faculty Search Committee, Sexual Minority Population Health, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
- 2018 Faculty Search Committee, Global Health Faculty Search, Mel and Enid Zuckerman College of Public Health, The University of Arizona.

### **College**

- 2018 - Present Education Committee, Mel and Enid Zuckerman College of Public Health, The University of Arizona.

- 2018 - Present One Health Co-Lead, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
- 2018 - 2021 Scholarship Committee, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
- 2018 - 2020 Council on Education for Public Health (CEPH) Self-Study Committee, Mel and Enid Zuckerman College of Public Health, The University of Arizona.

### **University**

- 2018 - Present Directors of Graduate Studies Committee, The University of Arizona.

### **Journal Peer Reviewer**

- 2021 Frontiers in Communication, Health
- 2020 PLOS One
- 2018 - Present PLOS Neglected Tropical Diseases

### **Other Services**

- 2017 - 2018 Coordinator, Transportation Research Initiative (TRI), The University of Arizona.
- 2017 Facilitator, Pandemic Interpersonal Emergency Preparedness and Response Exercise, the University of Arizona.
- 2016 Grand Judge, the 2016 Intel International Science and Engineering Fair (Intel ISEF), a Program of the Society for Science & the Public (SSP). May 8-13, 2016. Phoenix AZ.

### **PROFESSIONAL MEMBERSHIP**

- 2022 - Present African Forum for Research and Education in Health
- 2021 - 2023 Citizen Science Organization
- 2020 - Present National Environmental Health Associations
- 2020 - Present American Society for Microbiology
- 2016 - 2017 America Association for Advancement of Science

### **PUBLICATIONS**

#### **Peer Reviewed**

Chukwuonye, G.N., Brinks, T., **Kilungo, A.** Ramírez-Andreotta. (2025). Metal(loid) Concentrations in Drinking Water and Public Perception of Water Quality in the Arizona-Mexico Border, *J Environ Stud Sci and Sciences*. <https://doi.org/10.1007/s13412-024-01001-4>

Axon DR, Eckert B, Leon T, Morales S, Ehiri J, **Kilungo A**, Okotie T, Turner-Warren T. (2025) Medication Therapy Management lifestyle and wellness program for patients in rural Arizona. *J Am Pharm Assoc* (2003). doi: 10.1016/j.japh.2025.102324. Epub ahead of print. PMID: 39761916.

Luzingu, J., **Kilungo, A.**, Flores, R., Baccam, Z., Turner-Warren, T., Reis, T., Okusanya, B., & Ehiri, J. (2024). Effect of Self-Measuring Blood Pressure Program on Hypertension Control: Analysis by Diabetes Status, Age, Gender, and Race in Rural Arizona. *Clinics and Practice*, 14(6), 2637-2649. <https://doi.org/10.3390/clinpract14060208>

Moses, A., Ramírez-Andreotta, M. D., McLain, J. E. T., Obergh, V., Rutin, E., Sandhaus, S., & **\*Kilungo, A. P.** (2023). The efficacy of hydrogen sulfide (H<sub>2</sub>S) tests for detecting microbial contamination in rooftop-harvested rainwater. *Environmental Monitoring and Assessment*, 195(11). <https://doi.org/10.1007/s10661-023-11942-y>.

Moses A, Ramírez-Andreotta MD, McLain JET, Cortez LI, **\*Kilungo A.** Assessing the impact of rainwater harvesting infrastructure and gardening trends on microbial indicator organism presence in harvested rainwater and garden soils. *J Appl Microbiol.* 2023 Jun 1;134(6):lxad110. doi: 10.1093/jambio/lxad110. PMID: 37237448.

Moses, A., McLain, J., **Kilungo, A.**, Root, R., Abrell, L., Buxner, S., Ramirez-Andreotta, M. (2022). Minding the Gap: The Socio-demographic Factors that Influence Environmental Perception, Infrastructures, and Gardening Trends. *J Environ Stud Sci* 12, 594–610 <https://doi.org/10.1007/s13412-022-00769-7>.

Joshi, N., Lopus, S., Hannah, C., Ernst, K., **Kilungo, A.**, Davies, J., Evans, T. (2022). COVID-19 lockdowns: Linkages Between Lockdown-induced Employment Disruptions, Water Access and Hygiene Practices in Informal Settlements of Nairobi. *Soc Sci and Med.* 2022 Sep; 308:115191. doi: 10.1016/j.socscimed.2022.115191. Epub 2022 Jul 6. PMID: 35930847; PMCID: PMC9258418.

Axon, D., Kloster, J., Morales, S., Eckert, B., Turner-Warren, T., Manygoats, T., Ehiri, J., Riggs, S., **Kilungo, A.**, & Warholak, T. (2022). POSB10 Identification of Medication-Related Problems Among RURAL Community-Dwelling Patients Receiving Telephonic Medication Therapy Management Services. *Value in Health*, 25(1), S26. <https://doi.org/10.1016/j.jval.2021.11.120>

Axon, D. R., Kloster, J., Eckert, B., Morales, S., Riggs, S., **Kilungo, A.**, Ehiri, J., Grieser, M., Turner-Warren, T., Aseret-Manygoats, T., Bingham, J. M., Scovis, N., & Warholak, T. (2022). Evaluation of a Pharmacist-Led Telephonic Medication Therapy Management Program in Rural Arizona: Implications for Community Health Practice. *Clinics and Practice*, 12(3), 243–252. <https://doi.org/10.3390/clinpract12030029>

Chebet, J., **Kilungo, A.**, Alaofè, H., Malebo, H., Katani, S., Nichter. (2020) M. Local Perceptions, Cultural Beliefs, Practices and Changing Perspectives of Handling Infant Feces: A Case Study in a Rural Geita District, North-Western Tanzania. *Int. J. Environ. Res. Public Health*, 17, 3084.

Ramirez-Andreotta MD, Abrell L, **Kilungo A**, McLain JET, Root R. (2019). Partnering for Action: Community monitoring of harvested rainwater in underserved, rural, and urban Arizona communities. *Water Resources IMPACT*. 21(2) 12-15.

Powers, L., Smith, H., **Kilungo, A.**, Ellis, W., McKay, C., Bonnaccorsi, R., Roveda. J. (2018). In Situ Real-Time Quantification of Microbial Communities: Applications to Cold and Dry Volcanic Habitats. *Global Ecology and Conservation*.

Leona F. Davis, Mónica D. Ramírez-Andreotta, Jean E McLain, **Aminata Kilungo**, Leif Aubrell, Sanlyn Buxner (2018). Increasing Environmental Health Literacy through Contextual Learning in Communities at Risk. *Int J Environ Res Public Health*, 15(10)2203.

\***Kilungo A**, Powers L, Arnold N, Whelan K, Paterson K, Young D. (2018) Evaluation of Well Designs to Improve Access to Safe and Clean Water in Rural Tanzania. *Int J Environ Res Public Health*. 15(1), 64.

Shana Sandhaus, MS, Mónica D. Ramírez-Andreotta, **Aminata Kilungo**, Ann Marie Wolf, MS, Flor Sandoval, BS, Palmira Henriquez (2018) Combating Climate Injustices: An Informal Science and Popular Education Approach to Addressing Environmental Health Disparities. *Pedagogy in Health Promotion*.

Moreno Ramírez, D., Ramírez-Andreotta, M. D., Veal, L., Estrella-Sánchez, R., Wolf, A. M. A., **Kilungo, A.**, Betterton, E. A. (2015). Pollution Prevention through Peer Education: A Community Health Worker and Small and Home-Based Business Initiative on the Arizona-Sonora Border. *Int J Environ Res Public Health*, 12(9), 11209–11226.

\***Kilungo AP**, Carlton-Carew N, Powers LS (2013) Continuous Real-time Detection of Microbial Contaminants in Drinking Water using Intrinsic Fluorescence. *J. Biosens Bioelectron* S12:002.

### **Other Publications**

Palawat, K., Abrell L., Jones, C., **Kilungo A**, McLain JET, Root R., Ramirez-Andreotta MD. Arizona Rooftop Harvested Rainwater: How Clean is it? University of Arizona Extension Bulletin, 2024.

**Aminata Kilungo**, Marco Gallegos, Ann Marie Wolf, Paloma Beamer and Rietta Wagoner. Evaluation of the Environmental Health Status along the Arizona-Sonora Border. *U.S Environmental Protection Agency (U.S EPA)*, 2017.

**Aminata Kilungo**. Fort Huachuca Garrison Environmental Management Systems (EMS). *U.S Army, Fort Huachuca*, 2015.

**Aminata Kilungo**. Fort Huachuca Garrison Pollution Prevention (P2) Plan. *U.S Army, Fort Huachuca*, 2015.

### **Work in Progress: Refereed Journal Articles (Submitted or in preparation)**

**Kilungo, A.**, Chukwuonye, G., Okpanachi, O., Hussein, M. Assessing Sub-Saharan Africa's Readiness to Address the Impact of Climate Change and Health: A Scoping Review (in review, *PLOS One*)

Brinks, A., Chukwuonye, G., Guerrero, R., Cooper, K., Ramírez-Andreotta, M., \***Kilungo, A.** Drinking water as a potential exposure of *Helicobacter pylori* along the Arizona-Sonora Border (in review for *PLOS Water*)

**Kilungo, A.**, Bayer, M., Baccam, Z., Alaofè, H., Malebo, H. Empowering Women, Enhancing Health: The Role of Education in WaSH and Child Health Outcomes (In review, *International Journal of Environmental Research and Public Health*)

**Baccam, Z.**, Ehiri, L., Turner-Warren, Manygoats, T., Ehiri, J., \***Kilungo, A.** Impact of COVID-19 on Chronic Disease Management in Arizona: An Exploratory Mixed Method Study (prepared for *Journal of Preventing Chronic Disease*).

**Kilungo, A.**, Simmons, T., Brinks, T., Lynch, V., Bikyeombe, Y., Mohamed, H. How Social Determinants of Health Shape Climate Change Resilience and Health Outcomes in Tanzania (prepared for the *Journal of BMC Public Health*)

Okpanachi, O., Brinks, T., Hussein, M., **Kilungo, A.** Climate Change Perception, Resilience and Water Management Practices at the Household Level in Dar es salaam ( in preparation)

**Kilungo, A** & Naqib Safi, N (2025). Adapting to Climate Change: Building Resilient Health Systems and Social Protections in Sub-Saharan Africa [Book in preparation]. Community, Environment and Policy Department, The University of Arizona.

## **OTHER SCHOLARSHIP – CURRICULA**

### **Academic Program Development and Teaching: Degree Programs and Certificates**

2022	Public Health Emergency Preparedness and Response Undergraduate Certificate, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
2022	Public Health Emergency Preparedness and Response Graduate Certificate, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
2021	Occupational Safety Certificate, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
2021	Bachelors of Science in Public Health, One Health emphasis area, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
2021	One Health minor, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
2020	One Health Undergraduate Certificate, Mel and Enid Zuckerman College of Public Health, The University of Arizona.
2020	One Health Graduate Certificate, Mel and Enid Zuckerman College of Public Health, The University of Arizona.

2017 Critical Issues in Global Health and Global Water, Sanitation and Hygiene (WaSH), Tanzania summer study abroad program.

**Academic Program Development and Teaching: Course Development**

2022 EHS 510 Pandemics and Epidemics Emergency Response (online)  
2020 EHS 446/546 One Health Approach and Case Studies (online)  
2018 HPS 433 Global Health (online)  
2018 HPS 300 Public Health in the 21<sup>st</sup> Century (online)  
2017 HPS 409 Water, Sanitation and Hygiene (WaSH) (online)  
2017 HPS 493C Global Health Experience in Global Health - Critical Issues in Global Health Water, Sanitation and Hygiene (WaSH) (Tanzania study abroad field experience)

**Academic Program Development and Teaching: Teaching**

EHS 585 Public Health Fundamentals for Researchers  
EHS 489/589 Public Health Emergency Preparedness and Response  
EHS 446/546 One Health Approach and Case Studies (online)  
EHS 585 Fundamental for Researchers  
HPS 534 Tropical Infectious Diseases, Global Health and Development (online)  
HPS 433 Global Health  
HPS 409 Water, Sanitation and Hygiene (WaSH) (online)  
HPS 300 Public Health in the 21<sup>st</sup> Century  
HPS 493C Global Health Experience in Global Health - Critical Issues in Global Health Water, Sanitation and Hygiene (WaSH) (Tanzania study abroad field experience)

**Academic Program Development and Teaching: Invited Guest Lecture**

2020 EPID 606 Changing Health Policy. Health and Education in Tanzania, Mel and Enid Zuckerman College of Public Health, The University of Arizona.  
HPS 533 Global Health. Overview of Infectious Diseases of Global Health Importance, The University of Arizona  
2019 EPID 679 One Health Application and Practice. Global Health and One Health, Mel and Enid Zuckerman College of Public Health, The University of Arizona.  
HPS 533 Global Health. Overview of Infectious Diseases of Global Health Importance, the University of Arizona.  
HPS 416 The World's Foods and Health. El Salvador, Mel and Enid Zuckerman College of Public Health, The University of Arizona.  
HPS 560 International Nutrition. Water, Sanitation and Hygiene and Nutritional Outcomes, Mel and Enid Zuckerman College of Public Health, the University of The University of Arizona.  
2018 HPS 533 Global Health. Overview of Infectious Diseases of Global Health Importance, Mel and Enid Zuckerman College of Public Health, The University of Arizona.

HPS 560 International Nutrition. Water, Sanitation and Hygiene and Nutritional Outcomes, Mel and Enid Zuckerman College of Public Health, The University of Arizona.

2016 ENV5 195A Careers in Environmental Science. Working with Rural Communities to Improve Access to Safe and Clean Water. College of Agriculture and Life Science, The University of Arizona.

### **Community Training**

**Kilungo, A.**, Samarasinha, R., Wrona, Mwabope, G., Davis, I. Entrepreneurship Training: Adoption of Behavior Change to Improve Hygiene in Rural Tanzania through Soap-Making . Maji Safi Kwa Afya Bora (MSABI), Muhimbili University of Health and Allied Sciences (MUHAS) and The University of Arizona Collaboration. Morogoro, Tanzania, 2018.

Samarasinha, R., & **Kilungo, A.** Water Sanitation and Hygiene (WASH) Marketing – Video Production to Recruit New Users to Address WASH sustainability. Maji Safi Kwa Afya Bora (MSABI) and The University of Arizona Collaboration. Morogoro, Tanzania, 2018.

**A. Kilungo** & McLain, J. Rainwater Harvesting and Food Safety, *Promotora* Training, Tucson, AZ. March 2017.

**A. Kilungo** & McLain, J. Rainwater Harvesting and Food Safety, *Promotora* Training, Dewey-Humboldt, AZ. April 2017.

**A. Kilungo** & McLain, J. Rainwater Harvesting and Food Safety, *Promotora* Training, Globe Miami, AZ. May 2017.

### **CONFERENCE AND SCHOLARLY PRESENTATION**

#### **Oral Presentations and Panel Discussions**

**Kilungo, A.** Assessing Sub-Saharan Africa's Readiness to Address the Impact of Climate Change and Health. United Nations Framework for Climate Change Convention (UNFCCC). Nov 11-22, 2024, Baku, Azerbaijan.

Axon, D., Eckert, B., Leon, T., Morales, S., Ehiri, J., **Kilungo, A.**, Thelma Reis, T., Tenneh Turner-Warren, T. Evaluation of a pharmacist-provided lifestyle and wellness counseling program for patients with diabetes and/or hypertension in rural Arizona communities: Results of a three-year study. American Public Health Association (APHA). Oct 27-30, 2024 Minneapolis, MN.

**Kilungo, A.** Closing Statement to the United Nations Framework for Climate Change Convention (UNFCCC). Bonn SB58 Conference, June 5-15, 2023. Bonn, Germany.

Simmons, T., Brinks, T., Lynch, V., Bikyeombe, Y., Mohamed, H., **Kilungo, A.** How Social Determinants of Health Shape Climate Change Resilience and Health Outcomes in Tanzania.



United Nations Framework for Climate Change Conventions (UNFCCC), COP28, Nov 30<sup>th</sup>-Dec 13<sup>th</sup>, 2023. Dubai, United Arab Emirates.

Brinks, T., Lopez, Axl., Guerrero, Ramirez-Andreotta, M., **Kilungo, A.** Drinking water as a potential environmental exposure of *Helicobacter pylori*. *Arizona-Sonora Binational Coalition Conference*, Feb 17<sup>th</sup>, 2023. Tucson, AZ.

Chukuwonye, G., Brinks, T., Lopez, Axl., Guerrero, M., **Kilungo, A.**, Ramirez-Andreotta, M. Metalloid Concentration in Drinking Water and Public Perception in the Arizona-Mexico Border. *Arizona-Sonora Binational Coalition Conference*, February 17<sup>th</sup>, 2023. Tucson, AZ.

**Kilungo, A.**, & Ramirez-Andreotta, M. Prevalence of Helicobacter Pylori, Arsenic and Associated Health Outcomes in the Arizona-Sonora Border. *Arizona-Sonora Binational Coalition Conference*, April 29<sup>th</sup>, 2022, Tucson, AZ.

Rhys, D., Kloster, J., Morales, S., Eckert, B., Turner-Warren, T., Aseret-Manygoats, Ehiri, J., Riggs, S., **Kilungo, A.**, Warholak, T. Identification of medication-related problems among rural community-dwelling patients receiving telephonic medication therapy management services. *Arizona Department of Health (ADHS) Mariposa Conference*, November 1<sup>st</sup>, 2021 Mariposa, AZ

Joshi, N., Lopus, S., Corrie, H, Ernest, K., **Kilungo, A.**, Davis, J., Evans, T. COVID-19 Lockdowns: Linkage Between Lockdowns Induced Employment Disruption, Water Access and Hygiene Practices, in Informal Settlements in Nairobi. *University of Arizona Resilience Symposium*, Oct 1<sup>st</sup>, 2021. Tucson, AZ.

**Kilungo, A.**, McLain, J., Moses, A., Ramirez-Andreotta, D. Microbial Water Quality in Harvested Systems. *City of Tucson*, July 30<sup>th</sup>, 2021 Tucson, AZ.

**Kilungo, A.** Addressing Human Health through One Health Lens. *Arizona Science Teachers Symposium*. July 13, 2021. Tucson, Arizona.

Buxner, S. Villagomez-Marquez, N., **Kilungo, A.** Project Harvest: Working in a Transdisciplinary Team. Citizen Science Association Workshop, May 17, 2021. *Virtual*.

Moses, A., McLain, J., **Kilungo, A.**, Bobergh, V., Rutin, E., Ramirez-Andreotta. The Efficacy of Hydrogen sulfide (H<sub>2</sub>S) Tests for Detecting Microbial Contamination in Harvested Rainwater Samples. *University of Chapel Hill (UNC) Water and Health Conference*, October 26-30, 2020, Chapel Hill, NC.

Davis, R., **Kilungo, A.**, John, I. Tools to Evaluate Water, Sanitation and Hygiene (WASH) in Schools in Dare es Salaam, Tanzania. *The 6<sup>th</sup> International Conference of Public Health 2020: Driving Innovation in Health and Healthcare in the Industrial Revolution 4.0*, July 6-11, 2020. Bangkok, Thailand.

**Kilungo, A.** WASH and Health. *The Muhimbili University of Health and Allied Sciences (MUHAS) Seminar Series*, Dar es Salaam, Tanzania, June 19, 2018. Dar es Salaam, Tanzania.

**Kilungo, A.** Exploring Funding Innovation for Healthcare Capacity Development: The Nexus of Social Entrepreneurship & Healthcare Development in East Africa. *Social Impact Summit*. October 17, 2017. The University of Arizona, Tucson, Arizona.

**Kilungo, A.** Investing in Water, Sanitation, Sanitation and Hygiene (WaSH) for Sustainable Development Goals (SDG). *The 30<sup>th</sup> Annual Joint Scientific Conference of the National Institute for Medical Research (NIMR)*. October 4-5, 2016. Dar es Salaam, Tanzania.

**Kilungo, A.** Working with Rural Communities to Improve Access to Safe and Clean Water. *Old Pueblo Rotary of Tucson*, Dec 2016, Tucson, Arizona.

**Kilungo, A.** Working with Rural Communities to Improve Access to Safe and Clean Water. *Community Environment and Policy Seminar*, Feb 2016, Mel and Enid Zuckerman College of Public Health, the University of Arizona.

**Kilungo, A.** Evaluation of environmental health status along the Arizona-Mexico Border. *Environmental Protection Agency (EPA) Protecting Children's Environmental Health along the U.S.- Mexico Border*. January 27-28, 2016. San Diego, California.

**Kilungo, A.** Healthy Homes Rating System (HHRS) as a Tool to Assess and Guide Housing Investment Strategies in the Community. *Housing and Urban Development (HUD) Healthy Homes Conference*. March 18-19, 2014. Nashville, Tennessee.

**Kilungo, A.** Well Monitoring and Characterization in the Kilombero Region, Southeastern Tanzania. The University of Arizona, *Soil, Water and Environmental Science Colloquium Series*. October 15, 2012. Tucson, Arizona.

**Kilungo, A.** Identifying Hazardous Air Pollutants Hot Spots through Community Participatory Research Program. *National Environmental Health Association (NEHA) 72<sup>ND</sup> Annual Educational Conference (AEC) & Exhibition*. June 25, 2008. Tucson, Arizona.

### **Selected Posters**

Baccam Z, Rutin E, & Alaofe H., **Kilungo A** (2024, October). Female Decision Making, Autonomy, and Justification of Intimate Partner Violence in Katoma, Tanzania. Poster. Council for Social Work Education. October 24<sup>th</sup>-27<sup>th</sup>, Kansas City, MO.

Brinks, T., Chukwuonye, G., Guererro, R., Lopez, A., Ramirez-Andreotta, M., **Kilungo, A.** Drinking water as a potential exposure of helicobacter pylori. Public Health Poster Presentation, University of Arizona, March 30<sup>th</sup>, 2023, Tucson, AZ.

Moses, A., Abrell, L., Buxner, S., **Kilungo, A.**, McLain, J., Obergh, V., Robert, A., Sandoval, F., Ramirez-Andreotta, M. Indicator organism presence in urban and rural Arizona community garden soils watered with harvested rainwater. *ASA-CSSA-SSSA International Annual Meetings*. Nov 13-19. Virtual.

Mathur, S., Abrell, L., Villagomez- Marquez, N., Palawat, K., Ramirez- Andreotta, M., McLain, J., Root, R., Buxner, S., **Kilungo, A.**, Sandoval, F., What's in Your Rainwater? Inorganic and Organic Contaminants Measured in Roof- Harvested Rainwater. *University of Arizona KEYS Research Internship Poster Presentation*. July 20, 2020. Tucson, AZ.

Villagómez-Márquez, N., Abrell, L., Buxner, S., **Kilungo, A.**, Mclain, J.E.T., Root, R., Sandoval, F., Ramirez-Andreotta, M.D. Emerging contaminants in Roof-harvested Rainwater. *Emerging Contaminants Summit 2020*, March 10-11, 2020. Westminster, CO.

Henson, C., Villagómez-Márquez, N., Abrell, L., Buxner, S., **Kilungo, A.**, Mclain, J.E.T., Root, R., Sandoval, F., Ramirez-Andreotta, M.D. Per- polyfluoroalkyl substances in Roof-harvested Rainwater. *Emerging Contaminants Summit 2020*, Westminster, CO, Mar 10-11, 2020.

Samarasinha R, Wrona J, Mwambope G, John I, **Kilungo A.** Understanding Barriers to Improving Access to Water, Sanitation, and Hygiene (WaSH) in Rural Tanzania. *Global Health & Innovation Conference*, April 4-5, 2019. Yale University, New Haven, Connecticut.

Ramirez-Andreotta, MD, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA, Sandoval F. Project Harvest: A Co-Created Citizen Science Rainwater Harvesting Program in Rural and Urban Arizona Communities. *2nd Cobre Valley Forum on Water*, April, 2019, Globe, Gila County, Arizona.

Ramirez-Andreotta MD, Davis, L, Buxner S, **Kilungo A**, Root R, Mclain JE, Abrell L, Sandoval F. Effect of Environmental Monitoring Method on Participant Self-Efficacy for Science in Underrepresented Communities. *Citizen Science Association Conference*, March 2019, Raleigh, North Carolina.

Ramirez-Andreotta MD, Sandoval F, Moses A, Solis-Leon J, Villagomez-Marquez N. Davis L, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA. Project Harvest Be Informed. Grow Smarter. *University of Arizona Water Research Resource Center Brown Bag Seminar*, March 2019. Tucson, AZ.

Villagomez-Marquez N, Ramirez-Andreotta MD, Sandoval F, Moses A, Solis-Leon J. Davis L, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA. Investigating chemicals of emerging concerns (CECs) in rooftop harvested rainwater via co-created citizen science by applying high-resolution liquid chromatography–tandem mass spectrometry (HR-LC-MS/MS) *North America Chemical Residue Workshop (NACRW)* July 24 - 25, 2018, Tallahassee, Florida.

Davis L, Ramirez-Andreotta MD, Sandoval F, Moses A, Solis-Leon J, Villagomez-Marquez N, Kaufmann D, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA Advancing informal environmental health STEM learning through co-created citizen science, *Food-Energy-Water Nexus* May 22 -23, 2018, Washington DC.

Villagomez-Marquez N, Ramirez-Andreotta MD, Sandoval F, Moses A, Solis-Leon J, Davis L, Kaufmann D, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA Investigating emerging organic contaminants in harvested rainwater via co-created citizen science: What is in your rainwater? *SWESx Annual Conference*, April 11, 2018. Tucson, Arizona.

Ramirez-Andreotta MD, Sandoval F, Moses A, Solis-Leon J, Villagomez-Marquez N. Davis L, Kaufmann D, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA Socio-demographics in citizen science: Does governance model matter? *SWESx Annual Conference*, April 11, 2018. Tucson, Arizona.

Moses A, Ramirez-Andreotta MD, Sandoval F, Solis-Leon J, Villagomez-Marquez N. Davis L, Kaufmann D, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA The volunteer army: a review of ethical concerns in citizen science, *SWESx Annual Conference*, April 11, 2018. Tucson, Arizona.

Villagomez-Marquez N, Ramirez-Andreotta MD, Sandoval F, Moses A, Solis-Leon J, Davis L, Kaufmann D, Abrell LM, Mclain, JET, **Kilungo AP**, Root, RA. Project Harvest: analytical methods developed for organic contaminants in harvested rainwater. 2018 *Biological, Engineering, and Chemical Undergraduate Research (BECUR) Conference*, March 17, 2018. Tucson, Arizona

**Aminata Kilungo**. Real-time detection of microbial contaminants in drinking water using intrinsic fluorescence. *Fecal Indicators: are they a problem or a solution?* June 6-8, 2011. Edinburgh, United Kingdom.

**Aminata Kilungo**. Real-time detection of microbial contaminants in water using intrinsic fluorescence. *Land Grant and Sea Grant National Water Conference*. January 31-February 1, 2011. Washington, District of Columbia.

## **AWARDED RESEARCH GRANTS AND CONTRACTS**

### **University/Foundation**

- |      |   |
|------|---|
| 2024 | Aminata Kilungo. Children's Experience with Flooding in Ambos Nogales: Understanding climate change vulnerabilities, health risks and resilience. Total Award \$ 24,000; Funding Period 08/2023-12/2024 ( <b>Co-PI</b> , SCORCH). |
| 2024 | Aminata Kilungo. ImmuniFish: Assessing PFAS Impact on Fish Immunity against <i>Vibrio Anguillarum</i> . Total Award \$ 50,000; Funding Period 11/2024-11/2025 ( <b>Co-PI</b> , One Health Grant).                                 |

- 2023 Aminata Kilungo. Climate Change and the Global Threat of Cholera Exploratory Grant in Tanzania. Total Award \$ 50,000; Funding Period 08/2023-12/2024 (**PI**, Dean Innovation Fund).
- 2021 Aminata Kilungo. *Prevalence of Helicobacter pylori, Arsenic, and Associated Health Outcomes in the Arizona-Mexico Border*. Total Award: \$25,000; Funding Period: 08/2021-07/2022 (**PI**, Arizona Hispanic Serving Institutions (HIS) Faculty Seed Grants)
- 2019 Aminata Kilungo, *Development of One Health Program with a Global Reach*. Total Award: \$ 150,000; Funding Period: 01/2020 - 01/2023 (**PI**, Provost Investment Fund).
- State**
- 2024 John Ehiri, *Evaluation of Trauma Recovery Center Pilot Program*. Total Award \$234,000; Funding Period: 07/01/2024-06/30/2026 **Co-I**, Arizona Department of Health Services (ADHS) contract).
- 2023 John Ehiri, *Evaluation of Chronic Diseases Prevention [ Diabetes and National Cardiovascular Diseases and Innovation in Cardiovascular Diseases]*. Total Award: \$1,200,000; Funding Period: 10/2023 - 09/2028 (**Co-I**, Arizona Department of Health Services (ADHS) contract).
- 2018 John Ehiri, *Evaluation of Chronic Diseases Prevention*. Total Award: \$1,000,000; Funding Period: 01/2018 - 02/2023 (**Co-I**, Arizona Department of Health Services (ADHS) contract).
- Federal (including international)**
- 2017 Hamisi M. Malebo, *Enabling universal access to safe drinking water, hygiene and sustainable sanitation technologies and services for maternal, neonatal and child health improvement in rural communities*. Total Award: CAN \$ 100,000; Funding Period:07/2017- 01/2019 (**Co-I**, Grand Challenge Canada Grant).
- 2016 Monica Ramirez-Andreotta, *Advancing Informal Environmental Health STEM Learning: Co-Created Citizen Science Rainwater Harvesting in Underserved Communities*. Total Award: \$2,260,186; Funding Period: 09/2016 - 02/2023 (**Co-PI**, The National Science Foundation (NSF) Grant).
- 2016 Hamisi M. Malebo, *Improving Sanitation and Hygiene through the Construction of Ventilated Pit Latrines Fitted with Handwashing Facilities in Cholera Hotspots Communities in Tanzania*. Total Award: \$70,761; Funding Period: 06/2016 – 02/2017 (**Co-I**, World Health Organization (WHO) Grant).
- 2015 Aminata Kilungo. *Evaluation of Environmental Health along the Arizona Sonora Border Region*. Total Award: \$39,500; Funding Period: 11/2015-11/2016 (**PI**, U.S

Environmental Protection Agency (U.S EPA) Border 2020 and Border Environmental Cooperation Commission (BECC) Grant).

2010 Ann Marie Wolf. *Healthy Homes Project*. Total Award: \$1,000,000: Funding Period: 01/2010 – 01/2013 (**Co-I**, U.S Department of Housing and Urban Development (HUD) Grant).

**SUBMITTED GRANTS AND CONTRACTS (submitted or in preparation)**

*Principal Investigator*. Building Capacity for Research and Training to Improve Tanzania's Water and Foodborne Diseases Surveillance. National Institute of Health (NIH) \$ 1,150,000, 2026-2031 (to be submitted).

*Principal Investigator*. Impact of Climate Change on *Vibrio cholerae*, water quality and public health in Sub-Saharan Africa. National Institute of Health (NIH) \$ 275,000, 2025-2027(submitted)

*Co-Principal Investigator*. Cyclocore: Collaborative for Outreach, Research and Education Consortium Network. United States Department of Agriculture (USDA), \$7,900,000, 2022-2027 (not funded).

*Principal Investigator*. The role of the environment, underlying health conditions, and COVID-19 health outcomes in marginalized populations along the Arizona-Sonora Border. Robert Wood Johnson (RWJ), \$324,000, 2021-2023 (not funded).

*Co-Principal Investigator*. Building Community Resilience to Environmental Changes in Arizona Communities Private Wells. United States Environmental Protection Agency (US EPA), \$317,911.65, 2020-2022 (not funded).

*Co-Principal Investigator*. Pilot Study: Water, Environment and Health Assessment to Identify Gaps and Needs to Improve Health Along the Arizona-Sonora Border communities. Alfred P. Sloan Foundation, \$10,000, 2020-2021 (not funded).

*Co-Principal Investigator*. Animals or the Environment? Establishing Risk Factors, Sources and Transmission Pathways of Campylobacter using Genomic Epidemiology in Rural Tanzania. Bill and Melinda Gates Foundation, \$905,530.56, 2018-2020 (not funded).

*Co-Principal Investigator*. Pilot Study - Cost-effective and Rapid Testing for Detection of *Vibrio cholerae* for Future Development of an Early Warning System in Tanzania. UA International Research & Academic Program Development (IRPD) Grants, \$ 50,000, 2018-2019 (not funded).

*Co-Principal Investigator*. A Holistic Approach to Sustainability of Soil Health in Arid Agriculture. AFRI Sustainable Agriculture Systems, 2019 (not funded).

**LIST OF COLLABORATORS (LAST 5 YEARS)**

**Grants and Publications**

Abrell, L., The University of Arizona  
Alaofe, H., The University of Arizona  
Arnold, N., Michigan Technological University  
Beamer, P., The University of Arizona  
Buxner, S., The University of Arizona  
Chebet, J., The University of Arizona  
David, R., The University of Arizona  
Ellis, W., Sonoran Analytical Instruments and Diagnostics, LLC  
Estrella-Sanchez, R., The University of Arizona  
Gallegos, F., Sonora Environmental Research Institute, Inc.  
Gallegos, M., The University of Arizona  
Gerardo, L., The University of Arizona  
Henriquez, P., Sonora Environmental Research Institute, Inc.  
Henson, C., The University of Arizona  
Hussein, M., Muhimbili University of Health and Allied Sciences, Tanzania  
John, I., Muhimbili University of Health and Allied Sciences, Tanzania  
Katani, S., The Tanzanian National Institute of Medical Research  
Kaufman, D., The University of Arizona  
Malebo, H., The Tanzanian National Institute of Medical Research  
Mckay, C., SETI Institute's Carl Sagan Center for the Study of Life in the Universe  
McLean, J., The University of Arizona  
Moses, A., The University of Arizona  
Mwambope, G., Muhimbili University of Health and Allied Sciences, Tanzania  
Patterson, K., James Madison University  
Powers, L., The University of Arizona  
Ramirez, D., The University of Arizona  
Ramirez-Andreotta, M., The University of Arizona  
Root, R., The University of Arizona  
Roveda, J., The University of Arizona  
Rutin, E., The University of Arizona  
Samarasinha, R., The University of Arizona  
Smith, H., Utah State University  
Solis-Leon, J., The University of Arizona  
Veal, L., The University of Arizona  
Villagómez-Márquez, N., The University of Arizona  
Wagoner, R., The University of Arizona  
Whelan, K., Michigan Technological University  
Wolf, A., Sonora Environmental Research Institute, Inc.  
Wrona, J., The University of Arizona  
Young, D., Maji Safi kwa Afya Bora (MSABI), Tanzania

**STUDENT ADVISING (The University of Arizona)**  
**Doctor of Philosophy (PhD)**

2022 - Present	Calderon, G. Mel and Enid Zuckerman College of Public Health (Dissertation Committee)
2021 - Present	Schmidt, H., Geography, Development & the Environment (minor advisor)
2021 - Present	Chukwuonye, G., Soil, Water and Environmental Science (minor advisor and research dissertation)
2020 - Present	Elder, A., Geography, Development & the Environment (minor advisor)
2018 - 2023	Joshi, N., Geography, Development & the Environment (research advisor)
2017 - 2021	Moses, A., Soil, Water and Environmental Science (research advisor and dissertation committee)

### **Master of Public Health (MS)**

2023 - Present	Okpanachi, V., Mel and Enid Zuckerman College of Public Health
2023 - Present	Ashman, A., Mel and Enid Zuckerman College of Public Health

### **Master of Public Health (MPH)**

2022- Present	Lyons, L., Mel and Enid Zuckerman College of Public Health
2023 - Present	Adwoa, N., Mel and Enid Zuckerman College of Public Health
2021 - 2023	Zuniga, T., Mel and Enid Zuckerman College of Public Health
2020 - 2022	Deal, C., Mel and Enid Zuckerman College of Public Health.
2020 - 2022	Lopez, V., Mel and Enid Zuckerman College of Public Health.
2018 - Present	Yemi, O., Mel and Enid Zuckerman College of Public Health.
2018 - 2020	Davis, R., Mel and Enid Zuckerman College of Public Health.
2016 - 2020	Gallegos, M., Mel and Enid Zuckerman College of Public Health.
2017 - 2018	Samarasinha, R., Mel and Enid Zuckerman College of Public Health.
2017 - 2018	Redmond, K., Mel and Enid Zuckerman College of Public Health.

### **Bachelors of Science (BSc) (honors students)**

2020 - 2022	Callahan, C., Mel and Enid Zuckerman College of Public Health.
2019 - 2020	Rutin, E., Mel and Enid Zuckerman College of Public Health.
2018 - 2019	Wrona, J., Mel and Enid Zuckerman College of Public Health.