

AMINATA P. KILUNGO, PhD
Curriculum Vitae

Tucson, Arizona 85747 | 520.449.1832 | aminata.kilungo@gmail.com

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

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| 2026 - present | Teaching Professor, School of Global Futures, Arizona State University, Tempe AZ. |
| 2025 - present | Founder, Health for Society, Tucson, Arizona. |
| 2025 | Visiting Professor, Environmental Health Division, College of Public Health and Medicine, University of Cape Town, Cape Town South Africa. |
| 2023 - 2025 | Associate Professor, Environmental Health Sciences, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson AZ. |
| 2020 - 2025 | Co-Lead Faculty, One Health Educational Programs, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson AZ. |
| 2019 - 2025 | Graduate Program Director, Environmental Health Sciences, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson AZ. |
| 2019 - 2023 | Assistant Professor, 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

2023	Dept. Faculty Service Recognition Award, The University of Arizona.
2022	Faculty Excellence in Teaching Award, The University of Arizona.
2011 - 2012	Alfred P. Sloan Foundation, National Action Council for Minorities in Engineering Scholarship.
2012 - 2013	National Science Foundation (NSF) BioMe Fellow
2010 - 2011	Graduate Diversity Award, The University of Arizona.

SERVICE/OUTREACH

International

2023 - Present	Thematic Group Lead, Public Health and Climate Change, Research, and Independent Non-Governmental Organizations (RINGO) – a constituency of the United National Framework Convention for Climate Change (UNFCCC).
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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.
Editorial and Journal Peer Reviewer	
2025	Guest editor, Special issue on One Health Approach in Global Context <i>International Journal of Environmental Research and Public Health</i>
2025	Ad hoc reviewer, <i>PLOS Water</i>
2021	Ad hoc reviewer, <i>Frontiers in Communication, Health</i>
2020	Ad hoc reviewer, <i>PLOS One</i>
2018 - Present	Ad hoc reviewer, <i>PLOS Neglected Tropical Diseases</i>
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.
<u>PROFESSIONAL MEMBERSHIP</u>	
2022 - Present	African Forum for Research and Education in Health
2021 - 2023	Citizen Science Organization
2020 - Present	National Environmental Health Association
2020 - Present	American Society for Microbiology
2016 - 2017	American Association for Advancement of Science
<u>PUBLICATIONS</u>	

Peer Reviewed

Truong, K., Suarez, M., Durigan, M., Ewing-Peebles, L., Jenkins, M. C., **Kilungo, A.**, Cooper, M. A., Cooper, K. K., & Lopez, G. U. (2026). Optimization of the Mit1C real-time PCR assay using Bio-Rad CFX96 for the detection of *Cyclospora cayetanensis* in agricultural waters. *PLOS ONE*, 21(8), e0355957. <https://doi.org/10.1371/journal.pone.0355957>

Kilungo, A., Okpanachi, V., & Mohamed, H. (2025). Assessing Sub-Saharan Africa's readiness to address the impact of climate change and health: A scoping review. *PLOS ONE*, 20(11), e0315482. <https://doi.org/10.1371/journal.pone.0315482>

Patel RR, Varyvoda Y, Baroud H, Landrigan PJ, **Kilungo A.** Health and Climate at COP29: Advancing Integration and Bridging Research Gaps . *Annals of Global Health*. 2025; 91(1): 66, 1–8. DOI: <https://doi.org/10.5334/aogh.4895>

Kilungo, A., Bayer, M., Baccam, Z., Malebo, H., & Alaofo, H. (2025). Empowering Women, Enhancing Health: The Role of Education in Water, Sanitation, and Hygiene (WaSH) and Child Health Outcomes. *International Journal of Environmental Research and Public Health*, 22(5), 706. <https://doi.org/10.3390/ijerph22050706>

Palawat, K., Abrell L., Jones, C., **Kilungo A**, McLain JET, Root R., Ramirez-Andreotta MD. (2025). Arizona Rooftop Harvested Rainwater: How Clean is it? *University of Arizona Extension Bulletin*, Jan 2025. Arizona rooftop harvested rainwater: How clean is it? | UA Cooperative Extension

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 (H₂S) 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.

Work in Progress: Refereed Journal Articles (in review, submitted or in preparation)

Okpanachi, O., Truong, K., Lopez, G., **Kilungo, A.** Optimization and Comparative Evaluation of SimpliAmp and Bio-Rad Thermal Cyclers for PCR-Based Detection of *Vibrio cholerae* (in review, *PLOS Pathogen*).

Okpanachi, O., Brinks, T., Hussein, M., **Kilungo, A.** Climate Change Perception, Water Security, and Adaptive Capacity in at risk Low-Income Communities in Dar es Salaam, Tanzania (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, *PLOS Water*).

Irie, W., **Kilungo, A.**, Patel, R. Beyond Knowing What Works: Implementation Science for Climate Change (commentary submitted to the *Lancet*)

Kilungo, A., Varyvoda, Y., Baroud, H., George, T., Straif, K., Owda, A. Tebbe, N., Patel, R. From Climate Ambition to Implementation: Positioning Health and Financing at the Center of COP31 (commentary prepared for the *Lancet*)

Kilungo, A., Chukwuonye, G., Brinks-Zuniga, T., Wutich, A., Brewis, A. Water Insecurity, Heat Exposure and Adaptive Capacity in Nogales, Arizona-Mexico Border (prepared for *PLOS Climate*)

Truong, K., Cirerol, C., Rodriguez, D., Suarez, M., Conley, J., Loya, K., Quick, D., Mendoza, F., Rivas, E., Alvarez, D., Castillon, A., Larson, A., Kartoz, J., Arvizu, E., Acosta, M., Notah, A., Cooper, K., Cooper, M., **Kilungo, A.**, Lopez, G.U. Surveillance of *Cyclospora cayentanensis* in

Environmental Waters and Portable Toilet Surfaces from a Western U.S. Fresh Produce Growing Region (Submitted to PLOS Pathogen)

Book Authorship

Kilungo, A & Naqib Safi, N (2025). *Four Pillars for Climate and Health Adaptation in Sub-Saharan Africa: Water Security, Resilient Health Systems, Social Protection, and One Health: Climate Change, Health and Adaptation in Sub-Saharan Africa* [in press, Springer].

Advice and Policy Recommendations for the U.S Environmental Protection Agency

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2023). *Advice 2023-2: Empowering communities to address climate adaptation challenges (Meeting May 18, 2023)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2023). *Advice 2022-2: Engaging sub-national actors in climate adaptation initiatives (Meeting December 9, 2022)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2022). *Advice 2022-1: Air quality improvement for environmental justice project (Meeting April 28, 2022)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2020). *Advice 2020-1: Draft CEC strategic plan 2021–2025 (Meeting April 10, 2020)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2019). *Advice 2019-1: Disaster resilience, circular economy, and environmental trade linkages (Meeting May 15–16, 2019)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2018). *Advice on extreme event preparedness and resilience (Meeting October 10–11, 2018)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2018). *Advice 2018-1: Marine litter management and prevention strategies (Meeting April 26–27, 2018)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2017). *Advice 2017-4: Engaging stakeholders and advancing green growth (Meeting September 14–15, 2017)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2017). *Advice 2017-1: CEC operational plan preliminary project proposals (Meeting March 28–29, 2017)*. U.S. Environmental Protection Agency.

U.S. National Advisory Committee to the Commission for Environmental Cooperation. (2017). *Advice 2016-1: Marine litter and food waste (Meeting November 16–17, 2016)*. U.S. Environmental Protection Agency.

Other Publications

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.

OTHER SCHOLARSHIP – CURRICULA

Academic Program Development: 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.

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 st Century (in person and 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)

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 21st Century

HPS 493C Global Health Experience in Global Health - Critical Issues in Global Health Water, Sanitation and Hygiene (WaSH) (Tanzania study abroad field experience)

Invited Guest Lecture

2026 HPS 178 Personal Wellness and Health: *Environmental Health*, Mel and Enid Zuckerman College of Public Health, Tucson Arizona.

2025 Children Environmental Health: *Climate Change and Health*, Environmental Health Division, College of Public Health and Medicine, University of Cape Town, South Africa.

2025 Children Environmental Health: *Water and Health*, Environmental Health Division, College of Public Health and Medicine, University of Cape Town, South Africa.

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.

2019 HPS 533 Global Health. *Overview of Infectious Diseases of Global Health Importance*, the University of Arizona.

2019 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.

2018 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. University of Arizona Center for Regional Food Studies and Arizona Water for All: Water Insecurity, Climate Change and Adaptive Capacity in Nogales-Arizona Border. and October 29, 2025, Tucson, Arizona.

Kilungo, A. Water, Climate and Community Resilience: Lessons from Tanzania. Water Justice Knowledge Exchange. August 22, 2025 , Tucson, Arizona (online).

Kilungo, A. Advancing Climate and Health Resilience Through Integrated Research and Community Engagement. College of Public Health and Medicine, University of Cape Town. July 24, 2025, Cape Town, South Africa.

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): Advancing Inclusive Science and Health in the UNFCCC Climate Action. 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 Convention (UNFCCC), COP28, Nov 30th-Dec 13th, 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 17th, 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 17th, 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 29th, 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 1st, 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, 2021. Tucson, AZ.

Kilungo, A., McLain, J., Moses, A., Ramirez-Andreotta, D. Microbial Water Quality in Harvested Systems. *City of Tucson*, July 30, 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.**, Obergh, V., Rutin, E., Ramirez-Andreotta. The Efficacy of Hydrogen sulfide (H₂S) 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.

Moses, A. III, Ramirez-Andreotta, M. D., Obergh, V., McLain, J. E., & **Kilungo, A.** (2020) Indicator Organism Presence in Urban and Rural Arizona Garden Soils Watered with Harvested Rainwater [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2020) | VIRTUAL, Phoenix, AZ.

Davis, R., **Kilungo, A.**, John, I. Tools to Evaluate Water, Sanitation and Hygiene (WASH) in Schools in Dar es Salaam, Tanzania. *The 6th 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 and Hygiene (WaSH) for Sustainable Development Goals (SDG). *The 30th 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) 72ND Annual Educational Conference (AEC) & Exhibition*. June 25, 2008. Tucson, Arizona.

Selected Posters

Brinks, T., N. Rios, H. Mohammed, **Kilungo, A.** Use of Household Water Insecurity Experience (HWISE) Tool to assess Water Insecurity in Tanzania. University of Arizona One Health Symposium, Feb 7 2025, Tucson, Arizona.

Okpanachi, V. & **Kilungo, A.** Microbial Water Monitoring and Identification of communities that are hotspots for *V. cholerae* in Dar es Salaam, Tanzania. University of Arizona One Health Symposium, Feb 7 2025, Tucson, Arizona.

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

Chukwuonye, G. N., Brinks T., Lopez, A., Guerrero, R., **Kilungo, A.**, Ramírez-Andreotta, M. D. *Metal(loid) Concentrations in Drinking Water and Public Perception of Water Quality in the Arizona-Mexico Border* [presentation]. Binational Network for Healthy Communities in the Sonora-Arizona Border Region Meeting, Feb 17 2025 Tucson, Arizona, USA.

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 30th, 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-February1, 2011. Washington, District of Columbia.

AWARDED RESEARCH GRANTS AND CONTRACTS

University/Foundation

- | | |
|------|--|
| 2025 | <i>Assessing Household Water Experiences and Psychological Stress using Biomarkers along the Arizona Border colonias.</i> Total Award \$ 100,000; Funding Period 02/2025-12/2025 (PI , HWISE consortium and Water for all Initiative, Arizona State University). |
| 2025 | <i>Assessing Household Water Experiences along the Arizona Border colonias.</i> Total Award \$ 150,000; Funding Period 02/2025-12/2025 (PI , HWISE consortium and Water for all Initiative, Arizona State University). |
| 2024 | <i>Children's Experience with Flooding in Ambos Nogales: Understanding climate change vulnerabilities, health risks and resilience.</i> Total Award \$ 24,000; Funding Period 08/2024-12/2025(Co-PI , SCORCH). |
| 2024 | <i>ImmuniFish: Assessing PFAS Impact on Fish Immunity against Vibrio Anguillarum.</i> Total Award \$ 50,000; Funding Period 11/2024-11/2025 (Co-PI , One Health Grant). |
| 2023 | <i>Climate Change and the Global Threat of Cholera Exploratory Grant in Tanzania.</i> Total Award \$ 50,000; Funding Period 08/2023-12/2024 (PI , Dean Innovation Fund). |
| 2021 | <i>Prevalence of Helicobacter pylori, Arsenic, and Associated Health Outcomes in the Arizona-Mexico Border.</i> Total Award: \$25,000; Funding |

Period: 08/2021-07/2022 (**PI**, Arizona Hispanic Serving Institutions (HIS) Faculty Seed Grants)

2019 *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 *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 *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 *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 *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 *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 *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 *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 *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) Lead Grant).

SUBMITTED GRANTS AND CONTRACTS (submitted or in preparation)

Co-Principal Investigator. Estimating Global Burden of Diarrheal Disease in Tanzania using GOT-HoMIS. Bill Gates Grand Challenge \$ 1,500,000 (submitted)

Principal Investigator. Impact of Climate Change on *Vibrio cholerae*, water quality and public health in Sub-Saharan Africa. National Institute of Health (NIH) \$ 475,000, 2025-2027 (not funded)

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 (not funded)

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)

HWISE consortium, multi-site collaborations with 10 Universities around the world
 Water Innovation for All, Arizona State University
 Andrea Rother, Environmental Health Division, The University of Cape Town
 James Arlam, College of Medicine, The University of Cape Town
 Abrell, L., The University of Arizona
 Alaofo, 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
 Ramirez, D., The University of Arizona
 Ramirez-Andreotta, M., The University of Arizona
 Root, R., The University of Arizona

STUDENT ADVISING (The University of Arizona)

Doctor of Philosophy (PhD)

2024 – 2025	Brinks-Zuniga, T. Mel and Enid Zuckerman College of Public Health (Faculty advisor and research dissertation chair)
2024 - 2025	Almoslem, M. Mel and Enid Zuckerman College of Public Health (Dissertation Committee)
2022 - 2025	Calderon, G. Mel and Enid Zuckerman College of Public Health (Dissertation Committee)
2021 - 2025	Chukwuonye, G., Soil, Water and Environmental Science (minor advisor and research dissertation)
2021 - 2024	Schmidt, H., Geography, Development & the Environment (minor advisor)
2020 - 2024	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 Science (MS)

2023 - 2025 Okpanachi, V., Mel and Enid Zuckerman College of Public Health

2023 - 2025 Ashman, A., Mel and Enid Zuckerman College of Public Health

Master of Public Health (MPH)

2023 - 2025 Adwoa, N., Mel and Enid Zuckerman College of Public Health

2022- 2024 Lyons, L., Mel and Enid Zuckerman College of Public Health

2021 - 2023 Zuniga, T., Mel and Enid Zuckerman College of Public Health

2018 - 2023 Yemi, O., 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 - 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 Samarasingha, 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.