

Rianna T. Murray, PhD, MPH

Maryland Institute for Applied Environmental Health | School of Public Health | University of Maryland
4200 Valley Drive, College Park, MD 20742 | Tel: 301-825-6593 | rmurray@umd.edu

EDUCATION

- 2019** **University of Maryland, College Park**
Doctor of Philosophy in Toxicology and Environmental Health
Dissertation Title: *The Impact of Private Drinking Water Wells and Animal Feeding Operations on the Incidence of Acute Gastroenteritis in Maryland: A Mixed Methods Approach.*
Advisors: Sacoby Wilson, PhD and Amy Sapkota, PhD
- 2013** **University of Maryland, College Park**
Master of Public Health with a concentration in Environmental Health Sciences
Thesis Title: *An Assessment of Exposure to Pollution by Recreational Users of the Anacostia Watershed: Project RECREATE*
Advisor: Sacoby Wilson, PhD
- 2006** **University of the West Indies, St. Augustine, Trinidad & Tobago**
Bachelor of Science in Biochemistry and Chemistry (Upper second class honors)

PROFESSIONAL EXPERIENCE

August 2020- Present: Assistant Research Professor and Program Manager, UMD Global STEWARDS National Science Foundation (NSF) National Research Traineeship (NRT), *School of Public Health, University of Maryland- College Park*

February 2019 – July 2020: Postdoctoral Research Associate and Program Manager, UMD Global STEWARDS National Science Foundation (NSF) National Research Traineeship (NRT), *School of Public Health, University of Maryland- College Park*

- Manage and coordinate all aspects of the UMD Global STEWARDS Program including but not limited to:
 - Manage the recruitment and selection process of fellows
 - Plan, coordinate, and lead the Program's Global Winter Amp international study abroad experience in the winter semester
 - Coordinate efforts of all student committees together with fellows
 - Coordinate and facilitate the Program's outreach and mentoring activities
 - Coordinate and facilitate the Program's social events, such as welcome events and end-of-year celebrations
 - Coordinate and facilitate the Program's annual Summer Boost workshop, a week-long workshop of professional development and interdisciplinary team building activities for fellows
 - Manage aspects of the \$3.1M grant budget
 - Manage the Program's public relations and online presence, including program website and social media
 - Plan, coordinate and facilitate the Program's day-long annual meeting of all co-investigators, students, supporting faculty, and advisory board.
 - Assist the Program's internal and external evaluation teams with development, facilitation and analysis of surveys and other evaluation material
 - Assist the Project Director with development the high level, innovative education plan for fellows, including the unique, transdisciplinary Global STEWARDS classes and seminars
 - Prepare annual reports to the funding agency, the National Science Foundation (NSF)

January 2020 – Present: Adjunct Lecturer, *Public Health Science Program, School of Public Health, University of Maryland- College Park*

Lecturer of the undergraduate course MIEH 331 – Built Environment, Sustainability, and Public Health: The Good, the Bad, and the Ugly

September 2014 – December 2018: Graduate Teaching Assistant, *School of Public Health, University of Maryland- College Park*

Graduate Teaching Assistant for the following School of Public Health courses:

- Undergraduate course MIEH300 - Introduction to Environmental Health
- Undergraduate course PHSC401 - Public Health History
- Graduate course MIEH 600 –Foundations of Environmental Health
- Graduate course MIEH 605 - Foundations of Global Health
- Graduate course MIEH 606 - Global Classroom: Addressing Current, Pressing Global and Environmental Public Health Challenges in Bangladesh
- Graduate course MIEH 607 - Global Classroom: Risk Based Approach to Ensure Global Food Safety and Security
- Graduate course MIEH 620 - Global Health Communication
 - Responsibilities for these courses include:
 - Lead three weekly discussion sections of 20 students each (MIEH 300 only)
 - Lecture select classes during the semester
 - Prepare course materials, including development of syllabi and lecture materials
 - Develop examination questions and student assignments
 - Grade midterm exams, final exams and weekly assignments
 - Hold office hours with students to review class material, exams and assignments
 - Maintain online course space on ELMS/CANVAS

June 2016 – Present: Graduate Research Assistant, *Project CONSERVE directed by Dr. Amy Sapkota at the School Of Public Health, University of Maryland- College Park*

- Lead monthly virtual meetings of graduate students, postdoctoral scholars, technicians and extension agents across six collaborating sites of the project
- Develop and maintain social media platforms of Project CONSERVE (Twitter and Facebook)
- Maintain the Project CONSERVE website and blog
- Collect and prepare water samples to be analyzed across local water sites sampled under Project CONSERVE

June – August 2017: Graduate Administrative Assistant, *The Graduate School, University of Maryland – College Park*

- Worked with the Director of Professional and Career Development to improve the materials on career development available for graduate students and postdoctoral scholars.
- Created and maintained the professional and career development pages of the UMD Graduate School website

September 2012 – August 2014 and January 2015 – August 2015: Graduate Research Assistant, *Maryland Institute for Environmental Health (MIAEH), School Of Public Health, University Of Maryland- College Park*

- Prepared grant proposals on environmental justice and health disparities projects
- Prepared and conducted community health surveys
- Prepared and presented posters at local and international conferences
- Prepared scholarly manuscripts for submission to scientific journals
- Mentored and managed undergraduate student summer interns
- Assisted in the planning and coordination of the First and Third Annual Symposia on Environmental Justice at the University of Maryland, College Park (December 2012 and December 2014)

- Project management and coordination for Project CAESARR and Project RECREATE (supported by a grant from the Smithsonian Institution)
- Maintained the MIAEH departmental website

September 2011 – August 2012: Graduate Administrative Assistant, *Office of the Dean, College of Behavioral and Social Sciences, University of Maryland- College Park*

- Assisted the College's activities within the National Science Foundation (NSF) Alliance for Graduate Education and the Professoriate (AGEP)
- Collaborated with departments to support the success of women and ethnically diverse students
- Planned, coordinated and directed the College's Summer Research Initiative (SRI), the main annual event of the College's diversity outreach to support graduate student recruitment and retention efforts (Supported by a grant from the NSF)

December 2008 – August 2011: Quality Systems Officer, *Angostura Limited, Trinidad and Tobago*

- Conducted Internal Quality, Environmental and Safety Audits
- Ensured that all environmental monitoring activities are performed for noise, air and liquid effluent according to local legislation
- Conducted training and awareness sessions for employees on Quality, Environmental and Health & Safety Systems, GMPs and Food Safety
- Liaised with the local Environmental Management Authority (EMA) on all company environmental matters

May 2006–November 2008: Quality Control Laboratory Technician, *Angostura Limited, Trinidad & Tobago*

- Laboratory technician duties in Microbiology, Environmental, Analytical, Food & Beverage laboratories
- Quality Control duties in a food and beverage manufacturing plant

FELLOWSHIPS & SCHOLARSHIPS

- University of Maryland School of Public Health Dean's Fellowship Award for academic year 2018-2019
- University of Maryland Lee Thornton Dissertation Fellowship 2017
- University of Maryland School of Public Health Dean's Summer Research Fellowship 2017
- Maryland Institute for Applied Environmental Health (MIAEH) Wait Family Endowed Graduate Scholarship 2016
- University of Maryland Council on the Environment Green Fellowship Award 2014
- University of Maryland School of Public Health Dean's Fellowship Award for academic years 2013-2014 and 2014-2015

PRIZES AND AWARDS

- First place poster award at the University of Maryland Postdoctoral Research Symposium 2019
- Recipient of a Student Travel Scholarship from the American Public Health Association (APHA) Environment Section to attend the APHA Annual Meeting 2018 in San Diego, CA.
- Winner of the Chesapeake Potomac Regional Chapter (CPRC) of the Society of Environmental Toxicology and Chemistry (SETAC) Virtual Poster competition 2018.
- Recipient of a Phi Kappa Phi "Love of Learning" Award to support travel to attend the American Public Health Association (APHA) Annual Meeting in Atlanta, GA in November 2017.
- Recipient of a Student Travel Scholarship to the International Association for Food Protection (IAFP) Annual Meeting in Tampa, FL, July 2017.

- First place poster award in the “Public Health” category at the University of Maryland Graduate Research Appreciation Day (GRAD) 2017.
- Recipient of the University of Maryland School of Public Health Dean’s Scholar Award 2016. This award is given to students who have first and foremost excelled academically in the classroom, demonstrating curiosity, maturity, creativity, motivation and intellect. Award recipients are engaged citizens of the School and have made a notable impression on their department, faculty and peers through their academic and co-curricular achievements.
- Full travel scholarship to attend the annual Communicating Science Conference (ComSciCon) at Harvard University, Cambridge, MA, June 2016. This conference has a very competitive application process and provides participants with tools to build the communication skills needed by scientists and other technical professionals to express complex ideas to the general public, experts in other fields, and their peers.
- First place poster award in the “Public Health” category at the University of Maryland Graduate Research Appreciation Day (GRAD) 2016
- University of Maryland Jacob K. Goldhaber Travel Grant to attend the Conference of the International Society for Environmental Epidemiology (ISEE) in Sao Paulo, Brazil in August 2015
- Research award from the University of Maryland Program for Society and the Environment (PSE) for the 2015-2016 academic year
- Travel award from the University of Maryland Program for Society and the Environment (PSE) to attend the APHA Annual Meeting in 2014
- First place poster award in the “Addressing Environmental and Energy Issues” category at the University of Maryland Graduate Research Appreciation Day (GRAD) 2013
- Travel scholarship from the APHA Environment Section to attend the APHA Annual Meeting 2012 in San Francisco, CA.

UNIVERSITY & COMMUNITY SERVICE

- Member of the TerrapinSTRONG Committee, a campus-wide committee at the University of Maryland tasked with developing an onboarding program for new students, faculty and staff that will affirm our mission, culture, and values as a diverse, united, proud, respectful, inclusive, accountable and empowered community of people from every background that works to impact positively our globally-connected society. This new program will include unconscious-bias and anti-racism training; diversity, equity and inclusion training; and sexual harassment training.
- Panelist on the “Effective and Inclusive Mentoring” Panel at the 16th Annual USM PROMISE AGEP Research Symposium and Professional Development Conference, February 2020
- Panelist on the “Effective Poster Design” Panel at the UMD Graduate School “Invest in Your Future: Graduate Success” Symposium, January 2018
- Graduate student representative on the School of Public Health Diversity and Inclusion Council, September 2017 – December 2018.
- School Engagement Chair on the Public Health Without Borders (PHWB) Graduate Committee (September 2017 – December 2018). Responsible for leading global health engagement initiatives between PHWB and the UMD School of Public Health.
- Vice-President for Student Affairs, University of Maryland Graduate Student Government, 2016-2017 academic year. In this role I represented the voice of the graduate student body on several university-level committees and work on issues important to graduate students, such as housing, transportation and stipends.
- Graduate student representative on the School of Public Health Research Committee, September 2016 – 2017.
- College Park Toastmasters Club - Sergeant at Arms (July 2015 – June 2017) and Secretary (July 2017 – present)

- Graduate Mentor, Public Health Without Borders (PHWB) Student Association, 2013-2019. Travelled to Sierra Leone in June 2014 and June 2016 as an advisor to undergraduate students on the travel team. During both trips we conducted community health surveys, public health workshops and training with children and adults in a rural community. During the June 2016 trip we also conducted in-depth interviews and focus groups on the community's experience during the Ebola epidemic.
- Staff advisor with University of Maryland Alternative Spring Breaks (ASB) Program. Provided mentoring, support, guidance and resources throughout planning, educational and experiential activities before, during and after an ASB Spring Break 2015 experience in Chicago, IL (working to address issues of homelessness and affordable housing) and an ASB Spring Break 2016 experience in New York, NY (working to combat the stigma of persons living with HIV/AIDS).
- Abstract reviewer for Graduate Research Appreciation Day (GRAD) 2015 and 2016.
- Member of the Search Committee for a Director of the Maryland Institute for Applied Environmental Health (MIAEH), Fall 2015 – Spring 2016.
- Member of the Search Committee for two tenure-track associate professors for the Maryland Institute for Applied Environmental Health (MIAEH), Fall 2013- Spring 2014
- Doctoral Student representative for the Maryland Institute for Applied Environmental Health on the University of Maryland School of Public Health Dean's Student Council 2013-2014
- Student Research Affiliate of the Maryland Population Research Center (MPRC) at the University of Maryland, College Park, 2012 – 2018
- Summer and Fall 2012 internship with the DC Environmental Health Collaborative. Conducted a rapid Health Impact Assessment (HIA) on the closure of PEPCO electricity generation facility on Benning Road, DC.

PROFESSIONAL DEVELOPMENT

- Currently enrolled in the University of Maryland University Teaching and Learning Program (UTLP) at the Scholar level. Expected completion date – December 2020
- Online Course Design Faculty Learning Community workshop series offered by the University of Maryland Teaching and Learning Center (TLTC) during the spring semester 2020
- An Introduction to Evidence-Based Undergraduate Teaching workshop series offered by the University of Maryland Teaching and Learning Center (TLTC) during the spring semester 2020
- Johns Hopkins University Teaching Academy Teaching Institute offered in June 2019
- University of Maryland Graduate Workshop on Fundamentals of Scholarly Communication and Public Engagement (SCoPE), a workshop series offered in spring 2019
- University of Maryland College Park, MD - Teaching Portfolio Retreat, June 2018
- Harvard University, Cambridge, MA - Communicating Science Conference (ComSciCon), June 2016

PROFESSIONAL ASSOCIATIONS

- Member of Phi Kappa Phi Honor Society, University of Maryland-College Park Chapter
- Member of the Delta Omega Honorary Society in Public Health, University of Maryland-College Park Chapter
- Member of the American Public Health Association (APHA), Environment Section and International Health Section
- Member of the International Society for Environmental Epidemiology (ISEE)
- Member of the International Association for Food Protection (IAFP)

REVIEWING ACTIVITIES

Manuscript Review for Peer-Reviewed Journals:

- *International Journal of Environmental Research and Public Health (IJERPH)*

- *Progress in Community Health Partnerships*

Abstract Review for Referred Conferences:

- The American Public Health Association Annual Meeting (2020 and 2019)

PEER-REVIEWED PUBLICATIONS

Scientific Articles Published in Peer-Reviewed Journals:

1. **Murray RT**, Marbach-Ad G, McKee K and Sapkota AR. Experiential Graduate Course Prepares Transdisciplinary Future Leaders to Innovate at the Food-Energy-Water Nexus. *Sustainability* 2021;13(3), 1438; doi:10.3390/su13031438
2. Solaiman S, Allard S, Callahan MT, Jiang C, East C, Handy E, Bui A, Craddock HA, **Murray R**, Zhu L, Haymaker J, Kulkarni P, Anderson B, Craighaed S, Gartley S, Vanore A, Duncan R, Foust D, Sharma M, Sapkota A, Parveen S, Hashem F, May E, Kniel K, Sapkota AR, Micallef SA. A longitudinal assessment of *Escherichia coli*, total coliform, *Enterococcus* and *Aeromonas* spp. dynamics in alternative irrigation water sources: A CONSERVE study. *Applied and Environmental Microbiology*. 2020; 86(20) e00342-20; doi: 10.1128/AEM.00342-20
3. **Murray RT**, Cruz-Cano R, Nasko D, Blythe D, Ryan P, Boyle M, Wilson S, Sapkota AR. Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using Foodborne Diseases Active Surveillance Network (FoodNet) Data (2007-2016). *Environmental Research*. 2020; 188:109773. doi:10.1016/j.envres.2020.109773
4. Sharma M, Handy E, East C, Kim S, Jiang C, Callahan MT, Allard S, Micallef SA, Anderson-Coughlin B, Gartley S, Vanore A, Kniel KE, Haymaker J, Duncan R, Foust D, White C, Taabodi M, Hashem F, Parveen S, May E, Bui A, Craddock H, Kulkarni P, **Murray R**, Sapkota AR. Prevalence of *Salmonella* and *Listeria monocytogenes* in non-traditional irrigation waters in the Mid-Atlantic United States is affected by water type, season, and recovery method. *PLOS ONE*, 15(3): e0229365. doi: 10.1371/journal.pone.0229365
5. Panthi S, Sapkota AR, Raspanti G, Allard S, Bui A, Craddock HA, **Murray R**, Zhu L, East C, Handy E, Callahan MT, Haymaker J, Kulkarni P, Anderson B, Craighaed S, Gartley S, Vanore A, Betancourt W, Duncan R, Foust D, Sharma M, Micallef SA, Gerba C, Parveen S, Hashem F, May E, Kniel K, Pop M, Ravishankar S, Sapkota A. Pharmaceuticals, herbicides, and disinfectants in agricultural water sources. *Environmental Research*. 2019;174:1-8. doi:10.1016/j.envres.2019.04.011
6. Haymaker J, Sharma M, Parveen S, Hashem F, May EB, Handy, ET, White C, East C, Bradshaw R, Micallef S, Callahan MT, Allard S, Anderson B, Craighead S, Gartley S, Vanore A, Kniel KE, Solaiman S, Bui A, **Murray R**, Craddock HA, Kulkarni P, Foust D, Duncan R, Taabodi M, Sapkota AR. Prevalence of Shiga-toxigenic and Atypical Enteropathogenic *Escherichia coli* in Untreated Surface Water and Reclaimed Water in the Mid-Atlantic U.S. *Environmental Research*. 2019;172:630-636 doi:10.1016/j.envres.2019.02.019.
7. **Murray RT**, Rosenberg Goldstein RE, Maring EF, Pee DG, Aspinwall K, Wilson SM, Sapkota AR. Prevalence of Microbiological and Chemical Contaminants in Private Drinking Water Wells in Maryland, USA. *International Journal of Environmental Research and Public Health*. 2018;15(8):1686. doi:10.3390/ijerph15081686
8. Quirós-Alcalá L, Wilson S, Witherspoon N, **Murray R**, Perodin J, Trousdale K, Raspanti G, Sapkota A. Volatile organic compounds and particulate matter in child care facilities in the District of Columbia: Results from a pilot study. *Environmental Research*. 2016;146:116-124. doi:10.1016/j.envres.2015.12.005.

9. **Murray R**, Wilson S, Dalemarre L, Chanse V, Phoenix J, Baranoff L. Should We Put Our Feet in the Water? Use of a Survey to Assess Recreational Exposures to Contaminants in the Anacostia River. *Environmental Health Insights*. 2015;9(Suppl 2):19-27. doi:10.4137/EHI.S19594.
10. Wilson S, Burwell-Naney K, Jiang C, Zhang H, Samantapudi A, **Murray R**, Dalemarre L, Rice L, Williams E. Assessment of sociodemographic and geographic disparities in cancer risk from air toxics in South Carolina. *Environmental Research*. 2015;140:562–568. doi: 10.1016/j.envres.2015.05.016
11. Wilson SM, **Murray R**, Jiang C, Dalemarre L, Burwell-Naney K, Fraser-Rahim H. Environmental Justice Radar: A Tool for Community-Based Mapping to Increase Environmental Awareness and Participatory Decision Making. *Progress in Community Health Partnerships: Research, Education, and Action*. 2015;9(3):439–446. doi:10.1353/cpr.2015.0066
12. Dalemarre L, Wilson SM, **Murray R**, Burwell K. Summary on the First Annual Symposium on Environmental Justice and Environmental Health Disparities in Maryland and DC. *Environmental Justice*. 2014;7(2):55–60. doi: 10.1089/env.2014.0006
13. Wilson S, Zhang H, Jiang C, Burwell K, Rehr R, **Murray R**, Dalemarre L, Naney C. Being overburdened and medically underserved: assessment of this double disparity for populations in the state of Maryland. *Environmental Health*. 2014;13(1):1-23. doi:10.1186/1476-069X-13-26.
14. Wilson S, Jiang C, Burwell K, **Murray R**, Dalemarre L, Naney C, Zhang H. Assessment of Spatial Disparities in the Burden of Underground Storage Tanks in Maryland (2001–2011). *Environmental Justice*. 2013;6(6):219–225. doi: 10.1089/env.2013.0029

Scientific Articles Accepted and Awaiting Publication in Peer Reviewed Journals:

1. Malayil L, Negahban-Azar M, Goldstein R, Sharma M, Gleason J, Muise A, **Murray RT**, Sapkota A. Zooming Our Way Through Virtual Undergraduate Research Training: A Successful Redesign of the CONSERVE Summer Internship Program. To be published in *Journal of Microbiology & Biology Education*, 2021.
2. **Murray RT**, Drew LB, Memmott C, Bangura Y, Maring EF. A Community's Experience During and After the Ebola Epidemic in Sierra Leone: A Qualitative Study. To be published in *PLOS Neglected Tropical Diseases*, 2021.

Scientific Articles Under Review in Peer Reviewed Journals:

1. **Murray RT**, Cruz-Cano R, Nasko D, Blythe D, Ryan P, Boyle M, Wilson S, Sapkota AR. Prevalence of Private Drinking Water Wells Impacts Salmonellosis Incidence in Maryland, USA: An Ecological Analysis Using Foodborne Diseases Active Surveillance Network (FoodNet) Data (2007-2016). Submitted to *Science of The Total Environment*, November 2020
2. Anderson-Coughlin B, Craighead S, Kelly A, Gartley S, Vanore A, Johnson G, Jiang C, Haymaker J, White C, Foust D, Duncan R, East C, Handy E, Bradshaw R, **Murray R**, Kulkarni P, Callahan M, Solaiman S, Betancourt W, Gerba C, Allard S, Parveen S, Hashem F, Micallef S, Sapkota A, Sapkota A, Sharma M, and Kniel K. Virus Prevalence and Suitability of Viral Indicators in Select Mid-Atlantic Agricultural Waters. Submitted to *Applied and Environmental Microbiology*, 2021.
3. Craighead S, Anderson-Coughlin B, Gartley S, Vanore A, Kelly A, Omar A, Johnson G, Jiang C, Haymaker J, White C, Foust D, Duncan R, East C, Handy E, Allard S, **Murray R**, Mary Theresa Callahan, MT, Solaiman S, Betancourt W, Gerba C, Allard S, Parveen S, Hashem F, Micallef S, Sapkota A, Sapkota A, Sharma M, and Kniel K. The Presence of *Cryptosporidium* spp., *Giardia intestinalis*, and *Toxoplasma gondii* in Non-Traditional Sources of Agricultural Water in the Mid-Atlantic Region of the U.S. Submitted to *Food and Waterborne Parasitology*, 2021

Scientific Articles in Preparation for Submission to Peer Reviewed Journals:

1. **Murray RT**, Ferelli AM, Sapkota AR. UMD Global STEWARDS National Science Foundation Research Traineeship Prepares Future Leaders at the Food-Energy-Water Nexus through Innovative International Experiences. Will be submitted to *Journal of Studies in International Education*.

INVITED TALKS

1. Guest Lecture - MIEH 600, Foundations of Environmental Health, University of Maryland College Park. October 2020 – “*The Impact of Private Drinking Water Wells and Animal Feeding Operations on the Incidence of Acute Gastroenteritis in Maryland*”.
2. Maryland Institute for Applied Environmental Health (MIAEH) Departmental Seminar, February 4th, 2020. “*The Impact of Private Drinking Water Wells and Animal Feeding Operations on the Incidence of Acute Gastroenteritis in Maryland.....and the Food-Energy-Water Nexus*”.
3. Meeting of the Board of Trustees of the University of Maryland College Park Foundation, November 1st 2019. “*Contaminants in Private Drinking Water Wells in Maryland*”
4. Global Water Reuse, Food and Health Workshop, University of Maryland, October 8, 2018 – “*Prevalence of Microbiological and Chemical Contaminants in Private Drinking Water Wells in Maryland, USA*”.
5. UMD Graduate School GradTerp Exchange, October 4, 2018. “*Investigating Private Drinking Water Wells in Maryland*”.
6. Maryland Department of the Environment (MDE) - Maryland Groundwater Symposium, September 27th, 2108. “*Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using Data from the Maryland FoodNet*”.
7. Maryland Institute for Applied Environmental Health (MIAEH) Departmental Seminar, September 18th, 2018. “*Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland*”.

REFEREED CONFERENCE PROCEEDINGS

(i.) Oral Presentations

1. Murray R, Marbach-Ad G, Ferelli AM, Sapkota AR. “UMD Global STEWARDS National Science Foundation Research Traineeship Prepares Future Leaders at the Food-Energy-Water Nexus through Innovative International Experiences”. *American Public Health Association (APHA) Virtual Annual Meeting*, October 2020.
2. **Murray R**, Cruz-Cano R, Nasko J, Blythe D, Ryan P, Boyle M, Wilson M, Sapkota AR. “Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using Data from the Foodborne Diseases Active Surveillance Network (FoodNet)”. *American Public Health Association (APHA) Annual Meeting*, San Diego, CA, November 2018.
3. **Murray R**, Drew L, Memmott C, Bangura Y, Maring E. “Fear and Mistrust of Government during the Ebola Epidemic in Sierra Leone: A Qualitative Study”. *American Public Health Association (APHA) Annual Meeting*, Atlanta, GA, November 2017.

(ii.) Poster Presentations

1. Murray R, Marbach-Ad G, Lansing S, Sapkota AR. “The University of Maryland (UMD) Global STEWARDS NSF Research Traineeship program: Preparing future changemakers at the Food-Energy-Water (FEW) Nexus”. *American Public Health Association (APHA) Virtual Annual Meeting*, October 2020.
2. **Murray R**, Cruz-Cano R, Nasko J, Blythe D, Wilson M, Sapkota AR. Prevalence of Private Drinking Water Wells Impacts Salmonellosis Incidence in Maryland, USA: An Ecological Analysis Using

- FoodNet Data (2007-2016). *University of North Carolina (UNC) Water & Health Conference*, Chapel Hill NC, October 2019.
3. **Murray R**, Cruz-Cano R, Nasko D, Wilson S, Sapkota A. "Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using Data from the Foodborne Diseases Active Surveillance Network (FoodNet)". *International Society of Exposure Science (ISES) & International Society for Environmental Epidemiology (ISEE) Joint Annual Meeting*, Ottawa, Canada, August 2018.
 4. **Murray R**, Wilson S, Rosenberg Goldstein R, Pee D, Sapkota A. "The Role of Animal Agricultural Operations in Water Quality of Private Wells in Maryland". *American Public Health Association (APHA) Annual Meeting*, Atlanta, GA, November 2017.
 5. Allard SM, Solaiman S, Callahan MT, Handy E, East C, Kelbick HC, **Murray R**, et al. "Generic E. Coli levels in Surface and Non-traditional Irrigation Water in the Mid-Atlantic in relation to FSMA Water Quality Standards: A CONSERVE Study. *International Association for Food Protection (IAFP) Annual Meeting*. Tampa, FL, July 2017.
 6. **Murray R**, Drew LB, Memmott C, Bangura Y, Maring E. Surviving Ebola in Sierra Leone: A community's Experience During and After the Epidemic - A Qualitative Study. *Consortium of Universities for Global Health (CUGH) Annual Conference*. Washington, DC, April 2017.
 7. Kelbick H, **Murray R**, Drew L, Bibb K, Maring E. "Public Health Without Borders – Engaging Undergraduates in Global Health Learning Through Self-Directed Projects". *2017 Undergraduate Public Health and Global Health Education Summit*. Arlington, VA, March 2017.
 8. **Murray R**, Wilson SM, Burwell-Naney K, Naney C, Rehr R, Jiang C. Assessment Of Rural/Urban Differences In The Impact Of Deprivation, Diversity, And Healthcare Provider Shortage Areas (HPSAs) On Distribution Of Brownfields In Maryland (2010). *27th Conference of the International Society for Environmental Epidemiology (ISEE) - Addressing Environmental Health Inequalities*. São Paulo, Brazil, August 2015.
 9. **Murray R**, Hsieh S, Norouzi P, Morris V, Dickerson R, Northcross A. Ivy City Right To Breathe Partnership: Results Of A Pilot Study To Monitor Air Quality. *27th Conference of the International Society for Environmental Epidemiology (ISEE) - Addressing Environmental Health Inequalities*. São Paulo, Brazil, August 2015
 10. Wilson SM, Burwell-Naney K, Jiang J, Rice L, Zhang H, **Murray R**, Williams E, Fraser-Rahim H. Applying A Community-Based Participatory Research Framework To Assess Soil Contamination Levels In North Charleston, South Carolina. *27th Conference of the International Society for Environmental Epidemiology (ISEE), - Addressing Environmental Health Inequalities*. São Paulo, Brazil, August 2015.
 11. Wilson SM, Burwell-Naney K, Jiang C, Zhang H, **Murray R**, Fraser-Rahim H, Svendsen ER, Campbell DA. Urban Vs. Rural Segregation In South Carolina: Results From The National-Scale Air Toxics Assessment (NATA) Data. *27th Conference of the International Society for Environmental Epidemiology (ISEE) - Addressing Environmental Health Inequalities*. São Paulo, Brazil, August 2015.
 12. **Murray R**, Wilson S, Chanse V, Dalemarre L, Phoenix J, Sapkota A. (2014, November). Recreation and Risk: Are There Gender, Income, and Educational Differences in Knowledge About Contamination Between Users of the Anacostia River? In *142nd APHA Annual Meeting and Exposition (November 15- November 19, 2014)*. American Public Health Association (APHA) Annual Meeting, New Orleans,

Louisiana, November 18, 2014.

13. Burwell K, Wilson SM, Jiang C, **Murray R**, Dalemarre L. Assessment of Burden Disparities Related to Industrial Poultry Production in Maryland. 141st *American Public Health Association Annual Meeting*, Boston, Massachusetts, November 6, 2013.
14. **Murray R**, Jiang C, Zhang H, Wilson SM, Rehr R, Naney C. Disparities, Hazards, and Health: An Assessment of Brownfields and Health Care Access in Maryland. *NIEHS Environmental Health Disparities and Environmental Justice Meeting*, Research Triangle Park, NC, July 29-31, 2013.
15. **Murray R**, Burwell K, Jiang C, Zhang H, Wilson SM, Campbell D, Williams E. Cancer Risk Disparities from Air Toxics: A South Carolina Assessment. *National Environmental Health Association (NEHA) Annual Educational Conference*, Washington, DC, July 9 – 11, 2013.
16. **Murray R**, Burwell K, Jiang C, Zhang H, Dalemarre L, Wilson SM. Toxic Release Inventory Facilities in Maryland: A Characterization of Burden. Cancer Risk Disparities from Air Toxics: A South Carolina Assessment. *National Environmental Health Association (NEHA) Annual Educational Conference*, Washington, DC, July 9 – 11, 2013.
17. **Murray R**, Jiang C, Wilson SM, Zhang H, Samantapudi A, Burwell K, Delamarre L, Ohiri U. Is There a Burden Disparity in the Distribution of Superfund Facilities in Maryland? *NIH Science of Eliminating Health Disparities Summit*, National Harbor, MD, December 17-19, 2012.
18. Burwell K, Zhang H, Samantapudi A, Wilson SM, Jiang C, **Murray R**, Delamarre L. Burden Assessment of Toxic Release Inventory Facilities in South Carolina: Spatial Equity or Disparity? *NIH Science of Eliminating Health Disparities Summit*, National Harbor, MD, December 17-19, 2012.
19. Rehr R, **Murray R**, Wilson SM, Jiang C, Burwell K, Zhang H, Samantapudi A, Dalemarre L, Ohiri U. Characterizing the Burden Disparity in the Distribution of Toxic Release Inventory Facilities in Maryland. *NIH Science of Eliminating Health Disparities Summit*, National Harbor, MD, December 17-19, 2012.
20. Burwell K, Zhang H, Samantapudi A, Wilson SM, Jiang C, **Murray R**. Is There Environmental Injustice in the Distribution of Leaking Underground Storage Tanks in the State of South Carolina? *American Public Health Association (APHA) Annual Meeting*, San Francisco, CA, October 2012.

NON-REFEREED CONFERENCE PROCEEDINGS (POSTERS)

1. **Murray R**, Sapkota AR. The University of Maryland Global STEWARDS Program. *National Science Foundation (NSF) National Research Traineeship (NRT) Annual Meeting*. January 2020 (Virtual)
2. **Murray R**, Sapkota AR, Marbach-Ad. The University of Maryland Global STEWARDS Program. *National Science Foundation (NSF) National Research Traineeship (NRT) Annual Meeting*. Chicago IL. September 2019
3. **Murray R**, Cruz-Cano R, Nasko J, Blythe D, Wilson M, Sapkota AR. Prevalence of Private Drinking Water Wells Impacts Salmonellosis Incidence in Maryland, USA: An Ecological Analysis Using FoodNet Data (2007-2016). *University of Maryland Postdoctoral Research Symposium*. College Park, MD. September 2019
4. **Murray R**, Sacoby Wilson, Amy Sapkota. Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using a Decade of Data from the

- Foodborne Diseases Active Surveillance Network (FoodNet). Public Health Research @ Maryland. College Park, MD. April 2018.
5. **Murray R**, Sacoby Wilson, Amy Sapkota. Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using a Decade of Data from the Foodborne Diseases Active Surveillance Network (FoodNet). Graduate Research Appreciation Day, University of Maryland, College Park, MD. April 2018.
 6. **Murray R**, Drew LB, Memmott C, Bangura Y, Maring E. Surviving Ebola in Sierra Leone: A community's Experience During and After the Epidemic - A Qualitative Study. Graduate Research Appreciation Day, University of Maryland, College Park, MD. April 2017.
 7. **Murray R**, Drew LB, Memmott C, Bangura Y, Maring E. Surviving Ebola in Sierra Leone: A community's Experience During and After the Epidemic - A Qualitative Study. Public Health Research @ Maryland. College Park, MD. April 2017.
 8. **Murray R**, Quirós-Alcalá L, Wilson S, Witherspoon N, Perodin J, Trousdale K, Raspanti G, Sapkota A. Volatile organic compounds and particulate matter in child care facilities in the District of Columbia: Results from a pilot study. Public Health Research @ Maryland. College Park, MD. April 2016.
 9. **Murray R**, Quirós-Alcalá L, Wilson S, Witherspoon N, Perodin J, Trousdale K, Raspanti G, Sapkota A. Volatile organic compounds and particulate matter in child care facilities in the District of Columbia: Results from a pilot study. Graduate Research Appreciation Day, University of Maryland, College Park, MD. April 2016.
 10. **Murray R**, Wilson SM, Phoenix J, Chanse V, Sapkota A, Dalemarre L. Anacostia River, Recreation, and Health: Is there an Association between Limited-Contact Water Recreation and Adverse Health Outcomes? Poster presentation. Urban Environmental Stewardship Conference, College Park, MD. April 2015.
 11. **Murray R**, Pee D, Rosenberg Goldstein RE, Claye E, Aspinwall K, Sapkota A. Well water quality in Maryland: Results of a pilot study to analyze private drinking water wells and educate homeowners. Poster presentation. Graduate Research Interaction Day, University of Maryland, College Park, MD. April 2015.
 12. **Murray R**, Pee D, Rosenberg Goldstein RE, Claye E, Aspinwall K, Sapkota A. Well water quality in Maryland: Results of a pilot study to analyze private drinking water wells and educate homeowners. Poster presentation. Public Health Research @ Maryland. College Park, MD. April 2015.
 13. **Murray R**, Wilson SM, Phoenix J, Chanse V, Sapkota A, Dalemarre L. Anacostia River, Recreation, and Health: Is there an Association between Limited-Contact Water Recreation and Adverse Health Outcomes? Poster presentation. Public Health Research @ Maryland. College Park, MD. April 2014.
 14. Jiang C, Wilson SM, Burwell K, **Murray R**, Zhang H, Campbell D, Williams E. Assessment of Socioeconomic and Racial Disparities in Cancer Risk from Air Toxics in South Carolina. Poster presentation. Public Health Research @ Maryland. College Park, MD. April 2013.
 15. Rehr R, Jiang C, Wilson SM, Burwell K, **Murray R**, Zhang H, Samantapudi A. Assessment of Spatial Disparities in the Distribution of Leaking Underground Storage Tanks (LUSTs) in Maryland. Poster presentation. University of Maryland Biosciences Day, College Park, MD, November 2012.