

CURRICULUM VITAE

Jason W. Marion

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EDUCATION

- 2011 Ph.D., Public Health in Environmental Health Sciences, College of Public Health, The Ohio State University, Columbus, Ohio. Minor: Epidemiology
Dissertation: *Protecting Public Health at Inland Ohio Beaches: Development of Recreational Water Quality Indicators Predictive of Microbial and Microcystin Exposure*
Committee: Timothy J. Buckley (Advisor), Jiyoung Lee (Co-Advisor), Stan Lemeshow, John Wilkins III
- 2010 M.S., Public Health in Environmental Health Sciences, College of Public Health, The Ohio State University, Columbus, Ohio. Minor: Epidemiology
Co-Advisors: Timothy J. Buckley & Jiyoung Lee
- 2006 M.S., Biology with emphasis in Regional Analysis, College of Science & Technology, Morehead State University, Morehead, Kentucky.
Research: *An Evaluation of a Real-Time Water Quality Biomonitor using Corbicula fluminea*
Co-Advisors: David P. Smith & Brian C. Reeder
- 2004 B.S., Environmental Science with emphasis in Biology and Regional Analysis, College of Science & Technology, Morehead State University, Morehead, Kentucky. (Received *Magna Cum Laude* honors).
- 2001 A.A.S., Recreation and Wildlife Management, School of Natural Resources, Hocking College, Nelsonville, Ohio

PROFESSIONAL EXPERIENCE

Summary: I have obtained a diverse skill set with 24 years of public service experience spanning government natural resources/environmental agencies and higher education institutions in Ohio and Kentucky. My current academic position is at Eastern Kentucky University, a teaching-intensive, service-intensive, civically engaged university that serves the 22 counties of south central and southeastern Kentucky. Currently, I serve the Commonwealth of Kentucky as the academic member of the drinking water and wastewater operator certification boards, and I also serve as the Faculty Regent on the Eastern Kentucky University Board of Regents. Previously, I served as the President of the Association of Environmental Health Academic Programs which represented 31 environmental health programs accredited by the National Environmental Health Science and Protection Accreditation Council (EHAC). Through ECU support, I developed ColiGlow, a field-practical *E. coli* enumeration kit for getting reliable and affordable results in remote settings from Kenya to Kentucky which led to being awarded the Global Health Innovation Prize from the Global Health Innovation Conference hosted by Unite for Sight for ColiGlow, a now-exclusively licensed Eastern Kentucky University (EKU) product to Eastern Scientific (ES), which I founded in 2019. My research interests pertain to translational science focusing on water, sanitation, hygiene (WASH), antibiotic use, and One Health factors impacting recreational water quality, drinking water quality, and global health. My research has informed aspects of U.S. Recreational Water Quality Criteria (RWQC) published by the U.S. EPA., and I have several on-going projects related to practical drinking and surface water quality determination methods, including antibiotic resistance screening, for low-resource settings and citizen science groups from Appalachia to tropical regions. As an educator, I was recently honored with Eastern Kentucky University's highest teaching honor for two consecutive years, being named "Critical Reading Teacher of the Year." As a researcher, I recently received the ECU College of Health Sciences Research Award, and for service, I received ECU's 2021 Distinguished Service Award.

Research Areas:

- Epidemiology of drinking water illnesses in low resource communities
- Field methods for enumeration of antibiotic-resistant bacteria in water, wildlife, and livestock.

- Household water treatment/disinfection methods
- Cyanobacteria in inland U.S. lakes
- Antibiotic residues in village-based dairy products in developing nations
- Impacts of drinking water perceptions on health in Central Appalachia

CHRONOLOGY OF UNIVERSITY EMPLOYMENT

Aug 2012 – Present **Full-Time Member of the Faculty of Environmental Health Science**, College of Health Sciences, Eastern Kentucky University, 521 Lancaster Ave., Richmond, Kentucky, 40475. Duty Location: 521 Lancaster Ave., 220 Dizney Bldg., Richmond, KY 40475.

- Appointments have always included full-time responsibilities as a member of the teaching faculty, with the various ranks indicated below. Additional appointments exceeding the regular hours included service as a university contact tracer during the COVID-19 pandemic and director of the tobacco-free campus program.

Time Committed: Full-Time Service (>40 hours per week on nine-month contract) with part-time summer appointments for sponsored research and summer teaching.

Description of Work including Accepted Responsibilities: Through the incorporation of life experiences, academic, and research training in the environmental health sciences, epidemiology, and the biological sciences, serve as primarily an educator at Eastern Kentucky University (EKU). As an Environmental Health Science professor, primarily teach 'water and health', 'environmental epidemiology', and 'research methods'. Position includes service on several state and national committees and boards related to water and health, research, certification of wastewater and water system operators, and environmental public health. Position included receiving considerable training in educating students using modern modalities to promote interactive learning. Service to the university included service on the university's Board since 2019, which involves having extensive influence on policy and frequent contact with stakeholders (students, families, community members, elected officials, businesses, and elected officials, among others. For research/scholarship, a total of 19 peer-reviewed publications and six invited publications were authored (as of Feb 2024) and 72 presentations presented in poster or oral format since 2012.

Recognitions/honors have included top teaching honors three times, the university's distinguished service award, and the College's research award. Scholarly and service engagements have resulted in ongoing active involvement with national and local environmental health organizations and authoring successful grants with NIH-NIEHS, HRSA, and NSF, and co-leading awards from NIOSH.

Aug 2023 – Present **Professor (Rank)**, Environmental Health Science Program: Department of Public Health & Clinical Science, College of Health Sciences, Eastern Kentucky University, Richmond, Kentucky. Courses: Undergraduate courses in Water & Health, Water & Health Laboratory, Environmental Disease Detective (Epidemiology), Recreational Health. Graduate courses in Environmental Health Research Methods, Biostatistics in Health Sciences, and Survey of Public Health Statistical Analysis.

Aug 2016 – Aug 2023 **Associate Professor (Rank)**, Department of Environmental Health Science, College of Health Sciences, Eastern Kentucky University, Richmond, Kentucky. Courses: Undergraduate courses in Water & Health, Water & Health Laboratory, Environmental Disease Detective (Epidemiology), Recreational Health. Graduate

courses in Environmental Research Methods, Biostatistics in Health Sciences, and Survey of Public Health Statistical Analysis.

Aug 2012 – Aug 2016 **Assistant Professor (Rank)**, Department of Environmental Health Science, College of Health Sciences, Eastern Kentucky University, Richmond, Kentucky. Undergraduate courses in Water Supplies & Wastewater Disposal, Water/Wastewater Lab and Environmental Epidemiology & Risk Assessment, Industrial & Occupational Toxicology, and Hazards & Diseases of Leisure. In the graduate program, Environmental Research Process, Capstone, and Biostatistics in Health Sciences.

Mar 2012 – Aug 2012 **ALB (Asian Longhorn Beetle) Survey Technician**, Division of Plant Health, Ohio Department of Agriculture, 8995 E. Main St., Reynoldsburg, Ohio 46068-3342. Duty Station: Amelia, Ohio. Duty Address: USDA/ODA ALB Eradication Office, 3079 Angel Dr., Bethel, Ohio 45106-9523

Time Committed: full-time, 40 hours per week.

Description of Work: Served as a member of the state team assigned to work alongside USDA-APHIS to provide on-the-ground surveillance for a new invasive forest pest (Asian longhorn beetle) that was observed in Tate Township, Clermont County. Responsibilities included serving as a local contact with local landowners, renters/tenants, and business operators for obtaining permissions to enter private property for tree identification, pest surveillance, and tree/root removal of infested trees. Evaluated contractor performance to ensure landowner satisfaction with tree removals and to ensure infested material and high-risk material were removed from site in accordance with APHIS guidelines. Served often as a crew leader of field surveillance crews that positively identified some of the outer limits of the infestation. Served as inspector at the marshaling yard to quantify the amount of host material being destroyed and ensuring material being destroyed at the marshaling yard was meeting APHIS destruction guidelines. Contributions were among many others who collectively over the years have achieved near or total eradication of the Asian Longhorn Beetle infestation in Ohio, which would have had a significant adverse impact on Ohio's and the Nation's maple tree population and syrup industry.

Sep 2011 – Aug 2012 **Visiting Scholar/Postdoctoral Research Fellow**, Division of Environmental Health Sciences, College of Public Health, Jiyoung Lee Lab, The Ohio State University, Columbus, Ohio. Location: 1848 Neil Ave., 406 Cunz Hall, Columbus, OH 43210-1351.

Time Committed: Part-time, 20-30 hours per week.

Description of Work: Position was with the OSU College of Public Health in the Division of Environmental Health Sciences under the direction of Dr. Jiyoung Lee. In the position, I provided technical writing services and idea support for several grant applications to U.S. EPA (Extreme Events), and several other federal and state agencies on topics related to cyanobacteria in Lake Erie waters, viral indicators of recreational water quality, and more. Served as mentor for undergraduate student on project related to Mirror Lake and water quality during extreme event. Assisted others in the lab on laboratory methods and manuscripts related to fecal bacteria and antibiotic resistance genes in Ohio surface waters. Accomplishments relate to the successful funding of the USEPA research grant application, several state-level applications, and several successful publications from the research conducted during this period.

Sep 2010 – Aug 2011 **Graduate Research Assistant**, Division of Environmental Health Science, College of Public Health, Jiyoung Lee Lab, The Ohio State University, Columbus, Ohio. Location: 1848 Neil Ave., 406 Cunz Hall, Columbus, OH 43210-1351.

Time Committed: Part-time, 20 hours per week.

Description of Work: Served as project manager on U.S. EPA Great Lakes Restoration Initiative project pertaining to sanitary surveys and recreational water quality at four Lake Erie beaches in Northeast Ohio. Assisted in hiring and monitoring five summer undergraduate employees as well as managing sampling protocols for enabling molecular methods to be implemented to study fecal indicator bacteria, potential pathogens, as well as cyanobacteria. Assisted in developing a partnership with the Lake County Extension Office for providing space to carry out analyses and archiving samples. Provided additional support for manuscript preparation and further grant writing activities to the Ohio Lake Erie Commission and other agencies.

Sep 2008 – Aug 2010 **Infectious Diseases Fellow**, Public Health Preparedness for Infectious Diseases (PHPID, Office of the Provost, The Ohio State University, Columbus, Ohio. Location: 1848 Neil Ave., 406 Cunz Hall, Columbus, OH 43210-1351.

Time Committed: Part-time, 20 hours per week.

Description of Work: The PHPID fellowship was part of the university's target investment in excellence (TIE) in infectious diseases research at OSU. Support for this fellowship enabled the PHPID Fellow to carry out and coordinate a cohort study of >1,000 beachgoers at an inland Ohio lake in southwest Ohio. Support enabled time for analysis of the results of the cohort study demonstrating linkages between fecal indicator bacteria and gastrointestinal illness. The project supported the development of a published manuscript in *Water Research* which informed U.S. EPA Recreational Water Criteria in 2012. In addition, support allowed for the performance of water quality assessments of seven inland Ohio lakes throughout southwest, central, and southeast Ohio with 26 visits to each which led to additional publications on enteric viruses and cyanobacteria blooms.

Jul 2008 – Aug 2009 **Graduate Administrative Assistant (CGS President)**, Council of Graduate Students, Office of Student Life, The Ohio State University, Columbus, Ohio. Current Address: 2088 Ohio Union, 1739 N. High Street, Columbus, OH 43212.

Time Committed: Part-time, 20 hours per week.

Description of Work: Served as President of the Council of Graduate Students representing over 10,000 graduate students as part of the shared governance model at The Ohio State University. Service included being an ad hoc member of several committees, including the Graduate Council, which is the responsible entity for graduate curriculum and policies/practices pertaining to graduate assistants. As President, was responsible for chairing delegate meetings and leading the executive committee. In this role, major foci were engaging in the National Research Council's assessment of doctoral programs, beginning work related to graduate assistant compensation, supporting the Hayes Graduate Research Forum, legislator education outreach in Columbus and Washington, D.C. for the National Association of Graduate and Professional Students, and providing graduate student perspectives related to calendar decisions and moving the university from a quarter system to a semester system.

- Jul 2007 – Jul 2008 **Graduate Administrative Assistant (CGS VP)**, Council of Graduate Students, Office of Student Life, The Ohio State University, Columbus, Ohio. Current Address: 2088 Ohio Union, 1739 N. High Street, Columbus, OH 43212.
- Time Committed:** Part-time, 20 hours per week.
- Description of Work:** Served as Vice-President of the Council of Graduate Students, Chaired the Organization and Elections Committee for the Council of Graduate Students, served as the graduate student member on the Ohio State Athletics Council, and was responsible for directing and re-branding the 22nd Edward F. Hayes Graduate Research Forum. Major responsibilities included appointing over 100 graduate students to various university committees, advocating for graduate student tickets and student tickets at OSU sporting events, and assisting with government relations for OSU and the National Association of Graduate and Professional Students.
- Sep 2006 – Jun 2007 **Graduate Research Assistant**, Division of Environmental Health Science, College of Public Health, The Ohio State University, Columbus, Ohio. Current Address: 1848 Neil Ave., 406 Cunz Hall, Columbus, OH 43210-1351.
- Time Committed:** Part-time, 20 hours per week.
- Description of Work:** Provided general services to the entire Division. Assisted chair with research applications to the NIH for community-based participatory research in southeast Ohio pertaining to the Meigs County Cancer Coalition and air quality in the Ohio River Valley. Developed grant proposal pertaining to fish consumption for the Ohio River Sanitation Commission (ORSANCO). Assisted the chair with grant applications to the Ohio Environmental Education Council and Ohio EPA on water quality topics pertaining to Bokes Creek in Union County, Ohio. Developed pollutant concentration maps for chair using ArcGIS and U.S. EPA air toxics data at the census tract level. Assisted in moving laboratory equipment and supplies.
- Jun 2005 – Aug 2005 **Student Trainee (Biology/Engineering Technician) GS-0499-05**. Office of Research and Development, National Risk Management Research Laboratory, Water Supply/Water Resources Division, Water Quality Management Branch, Early Warning Systems Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio. Agency Address: U.S. EPA Human Resources Division, RTP, NC
Assignment Location: Andrew W. Breidenbach Environmental Research Center, U.S. EPA/ORD/NRMRL, 26 Martin Luther King Dr., Cincinnati, OH 45220
- Time Committed:** Full-time, 80 hours per two-week period.
- Description of Work:** Responsible for preparing and monitoring the quality of culture water for aquatic toxicology studies being used for real-time biomonitoring research, with a focus on *Daphnia* and *Ceriodaphnia*. Additional responsibilities included supporting a water pump intake on the Ohio River Field Station affiliated with Thomas More College to enable the field laboratory to perform real-time biomonitoring on aquatic organisms exposed to Ohio River water. A significant portion of the work also involved training for potential research careers in the federal government and with environmental health/human health agencies, such as U.S. EPA / ORD.
- Aug 2004 – May 2006 **Research Assistant**, Institute for Regional Analysis and Public Policy (IRAPP), Morehead State University, Morehead, Kentucky. Current Address: Department of Biology & Chemistry, 103 Lappin Hall, Morehead, KY 40351
- Time Committed:** Part-time, 20 hours per week during the nine-month academic years.

Description of Work: Provided field and laboratory evaluations for Shaw Environmental under a contract with U.S. EPA/ORD/NRMRL/WSWRD/WQMB/EWSL pertaining to a real-time biomonitor for water quality using *Corbicula fluminea* (Asiatic clams) and behavioral ecotoxicology during year two. During year 1 and 2, provided laboratory support to cell biology, ecology, limnology, and environmental testing courses in the Department of Biological and Environmental Sciences. Laboratory support included setting up laboratories, making standard solutions for labs, and supporting student participation during the lab activities.

Mar 2006 – Aug 2006

State Conservation Worker (Creel Clerk/Creel Surveyor), Division of Wildlife, District #5, Ohio Department of Natural Resources, Xenia, Ohio. Address: Ohio Division of Wildlife, District 5, 1076 Old Springfield Pike, Xenia, OH 45385

Time Committed: Part-time, 20 hours per week.

Description of Work: Responsible for trailering and operating a 40HP Lowe boat and for using the boat to survey anglers during all weather conditions pertaining to topics of interest to the state of Ohio. Included in the creel surveys were obtaining information on fish consumption (fish meals per year) per angler in the boat or on the shoreline, number of fish caught on the day of sampling, economic/spending on the day of sampling, and an analysis of the species caught and their sizes among the fish anglers had not released after catch. All survey work occurred at Cowan Lake near Wilmington, Ohio and Harsha (East Fork) Lake near Bethel, Batavia, and Williamsburg, Ohio.

Oct 2002 – May 2003

Emergency Wildland Firefighter, Division of Forestry, Kentucky Department of Natural Resources, Morehead, Kentucky. Address: Kentucky Division of Forestry, Morehead Branch, 255 Rodburn Hollow Rd., Morehead, KY 40475

Time Committed: Part-time, estimated 20 hours per week during wildland fire season (Oct to Dec and Feb to May).

Description of Work: Was on-call using my existing NIFC wildland fire training to support the northeast district of Kentucky with wildland fire support. Duties included receiving continuing wildland fire education, responding with a wildland fire crew to investigate potential wildland fires and illegal burns spotted by KDF aircraft, and containing active wildland fires through fire line construction and the occasional use of center-firing techniques.

Dec 1999 – Jun 2001

Assistant Corpsmember Leader, Division of Civilian Conservation (Ohio CCC), Ohio Department of Natural Resources and AmeriCorps, MacArthur, Ohio. Duty Location: 29371 Wheelabout Road, McArthur, OH 45651. [Division dissolved] ODNR HQ Address: ODNR, 2045 Morse Road, Columbus, OH 43229-6639.

Time Committed: Part-time, estimated 30 hours per week over duration of service, with a pause in service from June 2000 to August 2000 to focus only on summer assignment to ODNR – Parks and Recreation.

Description of Work: A variety of duties were assigned while acting as a Corpsmember and upon being promoted to Assistant Corpsmember Leader. Routine duties included ensuring the CCC camp was well-maintained with respect to custodial functions and landscaping functions, mentoring camp members assigned to be at the camp from the Ohio Department of Youth Services, providing GED tutoring for members lacking a high school diploma, and supporting various projects contract to the Division from other divisions of the Ohio Department of Natural Resources and Hocking College. Projects included log jam removal projects to reduce flooding in the Raccoon Creek Watershed, waterline installation at Strouds Run State Park, brush removal at Jackson Lake State Park, routine mowing and dam weed trimming at Lake Hope State

Park, painting latrine/pit privies at Lake Hope State Park, restoring 19th century log barn at Hocking College, food drive efforts in Zaleski and MacArthur, Ohio, and making upgrades to the Natural Resources Park at the Ohio State Fairgrounds.

April 1999 – Mar 2012 **State Conservation Worker**, Division of Parks and Recreation, Ohio Department of Natural Resources, Bethel (Clermont Co.), Ohio. Current Address: ODNR-East Fork Region, 3294 Elklick Road, Bethel, OH 45106.

Time Committed: Part-time, estimated 25-30 hours per week. Hours varied seasonally and with changes in the state budget from time-to-time. Total years of state service accumulated was approximately 12 years over the 13-year period.

*Periods of service without active hours in a pay period are estimated as follows: October 1999 – April 2000, October 2000 – April 2001, November 2001 – March 2001.

Description of Work: Role included a diversity of responsibilities as the position resulted in several promotions to the rank of conservation worker. Early position placements as a natural resources aide and then natural resources worker were primarily limited to custodial functions, waste removal, and mowing the 416-site campground and 1200' beach area at East Fork State Park. In the conservation worker position, similar maintenance functions were still included; however, additional work included beach grooming, greater trail maintenance, tree removal, electrical repair in state buildings and a campsites, sewage lagoon maintenance at Stonelick State Park, wastewater collection system maintenance, picnic table assembly, operating a Class B commercial packer truck for waste removal from dumpsters at East Fork and Stonelick State Parks, cleaning up and investigating illegal dumping and trash importation, public outreach at outdoor trade shows, wildland fire outreach as Smokey Bear at the Ohio State Fair, wildlife management for wild turkey, prairie management, developing and implementing a natural resources management plan, and coordinating park volunteers, among many other duties.

START-UPS

Jan 2021 – Current **Founder & CEO**, Eastern Scientific, LLC, Richmond, Kentucky. Location: 316 N. Estill Ave., Richmond, KY 40475.

CERTIFICATIONS & LICENSSES

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| ICS-100 | Introduction to Incident Command System |
| ICS 700 | National Incident Management System |
| S-110 | Basic Wildland Fire Suppression Orientation |
| S-130/190 | Firefighter Training & Introduction to Wildland Fire Behavior |
| CDL-B | Class-B CDL with air brakes endorsement, Commonwealth of Kentucky |
| R.S. | Registered Sanitarian (R.S.), Commonwealth of Kentucky |

HONORS AND AWARDS

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| 2024 | Heart of Hocking Award, Ohio Department of Natural Resources & Hocking Hills S.P. |
| 2023 | Presidential Citation, National Environmental Health Association |
| 2023 | Outstanding Poster Award - Council on State and Territorial Epidemiologist Annual Conf. |
| 2021 | Global Health Innovation Prize, Unite for Sight, Global Health Innovation Conference |
| 2021 | Distinguished Service Award, Eastern Kentucky University |
| 2021 | Excellence in Faculty Scholarship Award, EKU College of Health Sciences |
| 2021 | Critical Reading Teacher of the Year, Eastern Kentucky University (2 nd year of award) |
| 2020 | Past Presidents' Award, National Environmental Health Association |
| 2020 | Volunteer of the Year Award, Sigma Phi Epsilon Fraternity |
| 2019 | Critical Reading Teacher of the Year, Eastern Kentucky University (Inaugural award) |
| 2018 | President's Award for Excellence in Service, Assoc. of Environ. Health Acad. Programs |

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| 2018 | Distinguished Educational Leader Award by the ECU Student Government Association |
| 2017 | Critical Thinking Teacher of the Year, Eastern Kentucky University |
| 2016 | Citation, House of Representatives of the Commonwealth of Kentucky |
| 2015 | Second Commission as Kentucky Colonel by the Commonwealth of Kentucky |
| 2014 | Inaugural Member, President's Leadership Action Academy at Eastern Kentucky |
| 2012 | Influential Eagle Recognition by Morehead State Univ. for 125 th Anniversary Celebration |
| 2011 | Larry M. Lewellen Award for Distinguished Service to OSU Graduate Student Body |
| 2010 | The Ohio State University, Board of Trustees Student Recognition Award Recipient |
| 2009 | Director's Achievement Award, Ohio DNR – Actions at Shawnee State Forest Wildfire |
| 2009 | Employee of the Quarter Award, Ohio DNR – Division of Parks and Recreation |
| 2009 | Spirit of Ohio State Award, The Ohio State University Student Leadership Awards |
| 2009 | Outstanding Graduate Student Award, Ohio State University, Student Leadership Awards |
| 2008 | Most Outstanding M.S./Ph.D. Student in OSU College of Public Health |
| 2006 | Most Outstanding Grad. Student in the Institute for Regional Analysis and Public Policy |
| 2006 | Most Outstanding Biology Graduate Student at Morehead State University |
| 2005 | Commissioned as a Kentucky Colonel by the Commonwealth of Kentucky |
| 2004 | Most Outstanding Graduate for Institute for Regional Analysis and Public Policy |
| 2004 | Most Outstanding Environmental Science Student at Morehead State University |
| 2004 | Who's Who Among America's Colleges and Universities |
| 2004 | Greek Man of the Year at Morehead State University |
| 2003 | Inducted into Phi Kappa Phi National Honors Society |
| 2003 | Inducted into Gamma Sigma Alpha Greek Honors Society |
| 2003 | Senior of the Year at Morehead State University |
| 2003 | Brotherhood Award from Morehead State University Interfraternity Council |
| 2001 | Most Outstanding Recreation and Wildlife Management Graduate at Hocking College |
| 2001 | Who's Who Among America's Junior Colleges |

PROFESSIONAL SERVICE

Peer Reviewer

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| 2024 | Panelist, NIH/NIEHS Special Emphasis Panel, Study Section ZES1 ARL-W(R)1 |
| 2022 | Peer reviewer, <i>Environmental Science: Processes & Impacts</i> |
| 2021 – 2022 | Peer reviewer, <i>Vaccines</i> |
| 2021 | Peer reviewer, <i>Heliyon</i> |
| 2021 | Peer reviewer, <i>Healthcare</i> |
| 2021 | Peer reviewer, <i>Energies</i> |
| 2020 – Current | Reviewer Board, <i>International Journal of Environmental Research and Public Health</i> |
| 2020 – Current | Peer reviewer, <i>Scientific Reports</i> |
| 2020 | Panelist, NIH/NIEHS Special Emphasis Panel, COVID-19, ZES1 JAB-K (TS) |
| 2020 | Panelist, NIH/NIEHS Special Emphasis Panel, COVID-19, ZES1 JAB-S (TS) |
| 2020 | Panelist, NIH/NIEHS Special Emphasis Panel, COVID-19, ZES1 JAB-D (TS) A |
| 2020 | Panelist, NIH/NIEHS Special Emphasis Panel, Study Section ZES1 JAB-D (HH) |
| 2020 – 2022 | Peer reviewer, <i>Applied Sciences</i> |
| 2019 | Peer reviewer, <i>Preventive Medicine</i> |
| 2019 – Current | Peer reviewer, <i>Water</i> |
| 2019 | Peer reviewer, <i>Journal of Rural Health</i> |
| 2018 | Peer reviewer, <i>Environmental Science & Technology Letters</i> |
| 2018 | Peer reviewer, <i>Harmful Algae</i> |
| 2018 | Peer reviewer, <i>Toxics</i> |
| 2017 – 2018 | Peer reviewer, <i>Toxins</i> |
| 2017 – Current | Peer reviewer, <i>Epidemiology & Infection</i> |

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| 2017, 2022 | Peer reviewer, <i>Science of the Total Environment</i> |
| 2017 | Peer reviewer, <i>International Food Research Journal</i> |
| 2017 | Peer reviewer, One Health One Global Environment Conference Abstracts |
| 2016, 2017, 2020-23 | Peer reviewer, <i>Journal of Water and Health</i> |
| 2016 – 2017 | Peer reviewer, <i>Ecological Engineering</i> |
| 2016 | Peer reviewer, APHA Environment Section Abstract |
| 2015 | Peer reviewer, Eastern Research Group under federal contract |
| 2015, 2017 – 2018 | Peer reviewer, <i>Water Research</i> |
| 2015 | Peer reviewer, <i>Beverages</i> |
| 2014 | Peer reviewer, <i>Journal of Great Lakes Research</i> |
| 2014 | Peer reviewer, International Society of Exposure Science Conference Abstracts |
| 2012 – Current | Peer reviewer, <i>International Journal of Environmental Research and Public Health</i> |

Leadership & Other Service in the Profession

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| 2023 – Current | Member, Public Agencies Workgroup for Kentucky's Nutrient Reduction Strategy |
| 2022 – Current | Member, Wyatt Symposium Advisory Committee, Univ. of KY, NIEHS P20 Center |
| 2021 – Current | Appointed Member by UK VPR, Kentucky Water Research Institute Board of Directors |
| 2020 – 2021 | Member, National Environmental Health Association Board Nominating Committee |
| 2019 – 2021 | Technical Advisor for Global Health, National Environmental Health Association |
| 2019 | Career Panelist for American Public Health Association – Environment Section |
| 2019 | Moderator, Occ. Health & Safety Session Moderator, IFEH Acad. Conf., Uganda |
| 2020 – 2021 | Vice Chair, Kentucky Board of Certification of Drinking Water Operators |
| 2018 – Current | Board Member, Kentucky Board of Certification of Wastewater Operators |
| 2018 – Current | Board Member, Kentucky Board of Certification of Drinking Water Operators |
| 2018 – 2019 | Abstract reviewer, Int'l Fed. of Env. Health Acad. Conference, Makerere Univ., Uganda |
| 2016 – Current | Co-Chair, One Health One Global Environment Conference, Montego Bay, Jamaica |
| 2016 – 2018 | President & Past-President, Association of Environmental Health Academic Programs |
| 2017 | Chair, Technical Advisory Committee, One Health One Global Env. Conference |
| 2017 | Moderator, General Environmental Health Section, NEHA Annual Ed. Conference |
| 2017 – Current | Subject Matter Expert, Water Quality, National Environmental Health Association |
| 2017 – | Membership Representative, National Environmental Health Association |
| 2016 – Current | Member, Children's Environmental Health Summit Planning Team |
| 2016 | Moderator, APHA Epidemiology Section, Affordable Care Act Session, APHA Meeting |
| 2016 – Current | Member, National Committee on Diversity in Environmental Health |
| 2015 – 2016 | President-Elect, Association of Env Health Academic Programs Board of Directors |
| 2015 – 2016 | Peer mentor, Association of Env Health Academic Programs to Oakland University |
| 2014 – 2019 | Technical Advisor for Risk Assessment, National Environmental Health Association |
| 2014 | Moderator, 'Environmental Epidemiology' Session, APHA Annual Meeting |
| 2014 | Session Chair, 'Exposure to Recreational Water Contaminants', ISES Annual Mtg. |
| 2013 – Current | Member, Technical Advisory Cmte, KY Environmental Public Health Tracking Network |
| 2013 – 2018 | Member, Association of Environmental Health Academic Programs Board of Directors |
| 2013 – 2014 | Member, Technical Organizing Cmte, Int'l Society of Exposure Science (ISES) Meeting |
| 2013 – 2014 | Reviewer, NSF International, EHS Internship Award Committee |

Professional Society Affiliations

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| 2022 – Present | Associate Member, Council on State and Territorial Epidemiologists (CSTE) |
| 2016 – Present | Member, American Association for the Advancement of Science (AAAS) |
| 2013 – Present | Member, National Environmental Health Association |
| 2013 – Present | Member, Kentucky Association of Milk, Food, and Environmental Sanitarians |
| 2013 – Present | Member, American Public Health Association |
| 2012 – Present | Member, Kentucky Academy of Science |
| 2010 – 2012 | Member, American Society of Microbiology |
| 2010 – 2011 | Member, Water Management Association of Ohio |
| 2005, 2010, 2018 | Member, Ohio River Basin Consortium for Research & Education |
| 2006 – 2008 | Member, Appalachian Studies Association |

UNIVERSITY SERVICE

Eastern Kentucky University

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| 2022 – Current | Chair, <i>Ad Hoc</i> Governance and Assessment Committee, EKU Board of Regents |
| 2021 – 2022 | Secretary, Eastern Kentucky University Board of Regents |
| 2021 – 2023 | Research Mentor, NSF Research Experience for Undergraduates Program (3 students) |
| 2020 – 2022 | Member, Eastern Kentucky University COVID-19 Task Force & Testing Subcommittee |
| 2021 | Chair, Presidential Evaluation Committee, Eastern Kentucky Univ. Board of Regents |
| 2020 | Co-Chair, Presidential Search Committee, Eastern Kentucky University |
| 2020 – 2021 | Member, EKU General Education Implementation Team |
| 2019 – 2022 | Member, EKU Faculty Senate Open Educational Resources Ad-Hoc Committee |
| 2019 – 2020 | U.S. Census Bureau's Complete Count Committee for Eastern Kentucky University |
| 2019 – 2022 | Member, Presidential Evaluation Committee, Eastern Kentucky Univ. Board of Regents |
| 2019 – Current | Faculty Regent, Eastern Kentucky University Board of Regents |
| 2019 – Current | Ad Hoc Member, Eastern Kentucky University Faculty Senate & Executive Committee |
| 2019 – 2021 | Co-Chair, Regents Cmte. on Org. Performance, Enrollment Growth & Student Success |
| 2019 – Current | Member, EKU Data Science Advisory Committee |
| 2019 – 2022 | Chair, Promotion & Tenure Cmte, EKU Dept. of Environ. Health Sci & Medical Lab Sci. |
| 2018 | Member, Promotion & Tenure Cmte, EKU Dept. of Environ. Health Sci & Med. Lab Sci. |
| 2018 | Member, No Prob (Probation) Team for EKU Office of Retention & Graduation |
| 2016 – 2019 | Advisor, Student Senate and Advisory Board Member for Student Govt Assoc. |
| 2016 – 2019 | Member, Student Government Association Advisory Board |
| 2016 – 2019 | Subcommittee Chair, Campus Water & Stormwater Committee |
| 2016 – 2023 | Chautauqua Lecture Series Advisory Committee |
| 2016 | Mentor, Shaping our Appalachian Region - MIT Appalachian Health Hack-a-thon |
| 2016 | Member, Board of Regents Ad-Hoc Faculty Workload/Reassign Time Committee |
| 2016 | Member, Service Learning/Community-Based Learning Task Force |
| 2015 – 2018 | Chair/Director, EKU Tobacco-Free/Vape-Free Campus Program |
| 2014 – Current | State Fair Director, Kentucky Science and Engineering Fair (State Science Fair) |
| 2014 – 2020 | Member, International Education Committee |
| 2014 – 2018 | Member, Campus Responsible Environmental Stewardship (CRES) Committee |
| 2015 – 2018 | Member, Financial Aid & Scholarships Appeals Committee |
| 2015 | Member, Academic Engagement/Service Learning Task Force |
| 2015 | Member, University Strategic Planning Team (Regional Focus Strat. Planning Team) |
| 2013 – Current | Member, Kentucky Science and Engineering Fair Board |
| 2013 – Current | Member, Technical Advisory Committee, KY Env. Public Health Tracking Network |
| 2013 – 2016 | Member, Eastern Kentucky University STEM-H Committee |
| 2013 – 2019 | Member, EKU Tobacco-Free Task Force |
| 2013 – Current | Member, EKU Natural Areas Advisory Board & Research Committee |
| 2012 – 2015 | Member, Health Sciences Learning Resource Center Advisory Committee |

The Ohio State University

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| 2023 – Current | Secretary, The Ohio State University College of Public Health Alumni Society Board |
| 2019 – Current | At-Large Member, The Ohio State University College of Public Health Alumni Society |
| 2017 – 2019 | Secretary, The Ohio State University College of Public Health Alumni Society Board |
| 2011 | Chair, OSU Undergraduate Student Trustee Selection Committee |
| 2010 – 2011 | Member, OSU Faculty Cabinet |
| 2010 – 2011 | Chair, University Senate Cmte on Graduate Associate Benefits and Compensation |
| 2009 – 2010 | Ex-Officio Member, Graduate/Professional Student Trustee Selection Committee |
| 2008 – 2011 | Member, Efficiency and Effectiveness Council, University System of Ohio |
| 2008 – 2010 | Graduate/Professional Student Trustee, The Ohio State University Board of Trustees |
| 2009 – 2010 | Member, OSU Board of Trustees Committee on Fiscal Affairs |
| 2008 – 2009 | Member, Student Activity Fee Review Committee |
| 2008 – 2010 | Member, OSU Board of Trustees Committee on Trusteeship |
| 2008 – 2010 | Member, OSU Board of Trustees Committee on Agricultural Affairs |
| 2008 – 2009 | Member, OSU Board of Trustees Committee on Academic Affairs and Student Life |
| 2008 – 2009 | President, OSU Council of Graduate Students |
| 2008 | Member, OSU Counseling and Consultation Services Program Review Committee |
| 2007 – 2008 | Vice President, Ohio State University Council of Graduate Students |

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| 2007 – 2008 | Forum Director, 22 nd Edward F. Hayes Graduate Research Forum |
| 2007 – 2008 | Chair, Organizations and Elections Committee for OSU Council of Graduate Students |
| 2007 – 2009 | Member, Ohio State University Council on Student Affairs |
| 2007 – 2008 | Member, Ohio State University Athletic Council |
| 2007 – 2008 | Member, OSU Athletic Council's Academic Progress and Eligibility Committee |
| 2007 – 2008 | Member, OSU Athletic Council's Finance and Facilities Committee |
| 2007 – 2008 | Member, OSU Athletic Council's Equity and Student Welfare Committee |
| 2007 – 2008 | Member, Targeted Investments in Excellence Food Sciences Faculty Search Cmte. |
| 2007 – 2008 | Member, TIE Environmental Health Sciences Faculty Search Committee |
| 2006 – 2007 | Member, OSU University Senate Legislative/Government Affairs Committee |
| 2006 – 2007 | Chair, OSU Council of Graduate Students Governmental Relations Committee |

Morehead State University

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| 2018 – 2020 | President, Morehead State University Alumni Association |
| 2015 – 2018 | President-Elect, Morehead State University Alumni Association |
| 2014 – 2020 | Member, Morehead State University Alumni Association Board of Directors |
| 2005 – 2006 | Chair, Kentucky Board of Student Body Presidents |
| 2005 – 2006 | Member, President's Council at Morehead State University |
| 2005 – 2006 | Member, Strategic Enrollment Management Task Force at Morehead State University |
| 2005 – 2006 | Subcommittee Chair and Member, Morehead State University Planning Committee |
| 2005 – 2006 | Member, Morehead State University Founder's Day Committee |
| 2005 – 2006 | Member, Morehead State University Graduate Curriculum Committee |
| 2005 – 2006 | Co-Chair and Member, University Processes/Internal Communication Committee |
| 2005 | Chair, Sport Project Reorganization and Transitioning Committee (Recreation Center) |
| 2005 | Member, Morehead State University Dean of Students Search Committee |
| 2005 | Member, Morehead State University Distinguished Teacher Award Selection Cmte. |
| 2004 – 2006 | President, Morehead State University Student Government Association |
| 2004 – 2006 | Student Regent, Morehead State University Board of Regents |
| 2004 – 2006 | Member, Morehead State University Alumni Association Board of Directors |
| 2004 – 2006 | Member, Morehead – Rowan County Area Chamber of Commerce |
| 2004 – 2006 | Member, Morehead State University Undergraduate Curriculum Committee |
| 2004 – 2006 | <i>Ex-Officio</i> Member, Morehead State University Faculty Senate |
| 2004 – 2006 | Member, Morehead State University Alcohol and Other Drug Task Force/UNITE |
| 2004 – 2006 | Member, Morehead State University Library Committee |
| 2004 – 2005 | Member, Morehead State University Civic Engagement Committee |
| 2004 – 2005 | Member, MSU Campus Environment and Affirmative Action Team |
| 2004 – 2005 | Member, Morehead State University Academic Programs Review Committee |
| 2004 | Member, Morehead State University Presidential Search Committee |

External Service

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| 2023 – Current | Richmond-Madison County Juneteenth Freedom 5K Chair |
| 2021 – Current | Press writer, NAACP Richmond-Madison County Branch |
| 2021 | Chair, NAACP Richmond-Madison County Branch Public Relations Committee |
| 2021 – 2022 | Member, NAACP Juneteenth Gala and Juneteenth Health Fair Committee |
| 2020 – 2022 | Member, NAACP Richmond-Madison County Branch, Elections Committee |
| 2020 – Current | Member, NAACP Richmond-Madison County Branch, Environmental Justice Cmte. |
| 2022 – Current | Secretary, MSU Sigma Phi Epsilon Alumni Volunteer Corporation |
| 2019 – 2022 | President, MSU Sigma Phi Epsilon Alumni Volunteer Corporation |
| 2018 – 2019 | Secretary, MSU Sigma Phi Epsilon Alumni Volunteer Corporation |
| 2013 – 2017 | President, MSU Sigma Phi Epsilon Alumni Volunteer Corporation |
| 2011 – Current | Member, MSU Sigma Phi Epsilon Alumni Volunteer Corporation |
| 2002 – Current | Brother Mentor and Life Member, Sigma Phi Epsilon Fraternity |
| 2007 | Chair, Ohio Civil Service Employees Association, Chapter 3100 Elections Committee |

SCHOLARSHIP

Peer-Reviewed Publications (*Indicates Student or Mentee)

1. **J.W. Marion. 2023.** Self-reported consumption of bottled water versus tap water in Appalachian and non-Appalachian Kentucky. *Journal of Appalachian Health* 5(2): 32-49
2. C. Boggs*, K. Shiferawe*, E. Karsten*, J. Hamlet*, S.T. Altheide, and **J.W. Marion. 2023.** Evaluation of a tetracycline-resistant *E. coli* method for correctly classifying *E. coli* in environmental waters in Kentucky, USA. *Pathogens* 12(9):1090.
3. J. Lee, S. Lee, C. Hu, and **J.W. Marion. 2023.** Beyond cyanotoxins: Increased *Legionella*, antibiotic resistance genes in Western Lake Erie water and disinfection-byproducts in their finished water. *Frontiers in Microbiology* 14:1233327.
4. S.A. Hayworth*, D.G. Brown, and **J.W. Marion. 2023.** Sunburn frequency and sun protection attitudes among ocean lifeguards at Florida Beaches. *Journal of Clinical and Aesthetic Dermatology* 16(6): 46-49
5. C.J. Gibson*, A.K. Maritim*, and **J.W. Marion. 2021.** Comparison of the ColiPlate™ kit with two common *E. coli* enumeration methods for water. *Water* 13(13): 1804.
6. T. Gerding*, D. Stephenson, and **J.W. Marion. 2021.** Carbon monoxide exposure potential associated with the use of recreational watercraft. *Journal of Environmental Health* 84 (1): 8-14.
7. **J.W. Marion**, A. Strand, and E. Baldrige. **2021.** Changes in student behaviors and policy opinion regarding E-cigarettes at a Kentucky University. *Preventive Medicine Reports* 22:101364.
8. S.E. Hughes* and **J.W. Marion. 2021.** Cyanobacteria growth in nitrogen- & phosphorus-spiked water from a hypereutrophic reservoir in Kentucky, USA. *Journal of Environmental Protection* 12(2):75-89.
9. T. Gerding*, T. Wilder, and **J.W. Marion. 2020.** An assessment of disinfection-related water chemistry at public pools and spas in Louisville, Kentucky. *Journal of Environmental Health* 83(1):18-24.
10. A. Kosgey*, A. Shitandi and **J.W. Marion. 2018.** Antibiotic residues in milk from three popular Kenyan milk vending machines. *American Journal of Tropical Medicine and Hygiene* 98(5):1520-1522.
11. **J.W. Marion**, J. Lee, J. Rosenblum, and T.J Buckley. **2018.** Assessment of temperature and ultraviolet radiation effects on sunburn at an inland U.S. Beach: a cohort study. *Environmental Research* 161:479-484.
12. **J.W. Marion**, F. Zhang, and J. Lee. **2017.** Associations between county-level land cover classes and cyanobacteria blooms in the United States. *Ecological Engineering* 108B:556-563.
13. J. Lee, K.H. Tseng, F. Zhang, C. Lee, **J.W. Marion**, S. Liang, and C.K. Shum. **2015.** From satellite to genes: an integrative approach for timely monitoring of harmful cyanobacteria in Lake Erie beach waters. *Journal of Environmental Pollution and Human Health* 3(3):70-79.
14. C. Lee, **J.W. Marion**, M. Cheung, C.S. Lee, and J. Lee. **2015.** Associations among human-associated fecal contamination, *Microcystis aeruginosa*, and microcystin at Lake Erie beaches. *International Journal of Environmental Research and Public Health* 12(9):11466-11485.
15. **J.W. Marion**, V. Burrowes*, C.S. Lee and J. Lee. **2015.** Changes in bacteriological water quality associated with an extreme recreational water event in Ohio, United States. *Water Quality, Exposure and Health* 7(4):491-501.
16. **J.W. Marion**, C.H. Lee, C.S. Lee, S. Lemeshow, T.J. Buckley, Q. Wang, L. Saif, and J. Lee. **2014.** Integrating bacterial and viral water quality assessment potentially enhances swimming-associated illness prediction at a freshwater beach. *PLoS ONE* 9(11):e112029. doi: 10.1371/journal.pone.0112029
17. C.S. Lee, C. Lee, **J.W. Marion**, Q. Wang, L. Saif, and J. Lee. **2014.** Occurrence of Human Enteric Viruses at Freshwater Beaches during Swimming Season and Its link to Water Inflow. *Science of the Total Environment* 472:757-766.
18. C. Lee, **J.W. Marion**, and J. Lee. **2013.** Development and application of a quantitative PCR assay targeting *Catellibacoccus marimammali* for assessing gull-specific fecal contamination at Lake Erie beaches. *Science of the Total Environment*. 454-455:1-8.
19. C.H. Lee, S. Agidi, **J.W. Marion**, and J. Lee. **2012.** *Arcobacter* in Lake Erie beach waters: an emerging gastrointestinal pathogen linked with human-associated fecal contamination. *Applied and Environmental Microbiology* 78(16):5511-5519.
20. **J.W. Marion**, J. Lee, C.H. Lee, J.R. Wilkins, III, S. Lemeshow, E. Waletzko and T.J. Buckley. **2011.** *In vivo* phycocyanin fluorometry as a rapid screening tool for predicting elevated microcystin concentrations at eutrophic lakes. *Environmental Science and Technology* 46(8):4523-4531

21. C.S. Lee, **J.W. Marion** and J. Lee. **2011**. A novel genetic marker for the rapid detection of *Bacteroides fragilis* in recreation water as a human-specific fecal indicator. *Journal of Water and Health* 9(2):253-264.
22. **J.W. Marion**, J. Lee, S. Lemeshow and T.J. Buckley. **2010**. Association of gastrointestinal illness and recreational water exposure at an inland U.S. beach. *Water Research* 44:4796-4804.

Invited Journal Publications

1. C. Pinion Jr., L. Mitchell, and **J.W. Marion**. **2018**. It's about communities: the commitment to promoting a culturally competent environmental health workforce. *Journal of Environmental Health* 81(2):36-39.
2. **J.W. Marion**, H. Scarlett, P. Oliver, and N.E. Campbell. **2018**. The environmental health profession makes strong entry into the global "One Health" framework in Montego Bay, Jamaica. *Journal of Environmental Health* 80(8):40-41.
3. **J.W. Marion**, A.M. Zimeri, and T.J. Murphy. **2017**. Trends in the environmental health job market for new graduates of EHAC accredited programs. *Journal of Environmental Health* 80(2):32-36.
4. C.D. Treser, and **J.W. Marion**. **2017**. Students can be an important link between academia and practice. *Journal of Environmental Health* 79(7):36-37.
5. J.W. Marion, and T.J. Murphy. **2016**. A fork in the road for environmental health workforce development and U.S. Public Health. *Journal of Environmental Health* 79(2):40-43.
6. **J.W. Marion**, and Y. Sinde. **2015**. The need for environmental public health professionals and the role of EHAC-accredited programs in increasing the pool. *Journal of Environmental Health* 78(2):36-41.

Manuscripts Under Review (*Indicates student)

1. None as of September 1, 2023

Patent and Patent Cooperation Treaty (PCT) Applications

1. **J.W. Marion**. **U.S.** Patent Application No. 17/820,452. Method for detection of *E. coli* and antibiotic resistant bacteria in water. Application Undergoing Preexam Processing: August 17, 2022. [Pending]
2. **J.W. Marion**. PCT Application No. PCT/US21/18679. Method for detection of *E. coli* and antibiotic resistant bacteria in water. Filed for Consideration: February 19, 2021. [Published]
3. **J.W. Marion**. Provisional Patent Application No. 62/979,694. Method for detection of *E. coli* and antibiotic resistant bacteria in water. Filed for Consideration: February 24, 2020. [Expired February 21, 2021]

Trademark Applications

1. Eastern Scientific, LLC c/o **J.W. Marion**. U.S. Serial No. 97857931. Coliglow™. Filed for Consideration: March 27, 2023. New Application Processing: April 18, 2023. Approved for Publication: December 28, 2023. Publication Date: February 6, 2024.

Book Publications

1. **J.W. Marion**. **2013**. Talkin' trash: an introduction to solid and hazardous waste management. In Beck, J. (Ed.) *Introduction to environmental health science* (p. 378). Dubuque, IA: Kendall-Hunt.

Oral Presentations (*Indicates student)

1. J. Hamlet* and **J.W. Marion**. 2023. Surveillance of Antibiotic-Resistant *E. coli* in Kentucky Watersheds Impacted by Various Land Uses. One Health, One Global Environment Conference. Accepted: October 3, 2023, Montego Bay, Jamaica.
2. J. Hamlet* and **J.W. Marion**. 2023. Antibiotic-Resistant *E. coli* in Kentucky Watersheds Impacted by Various Land Uses. Kentucky Water Resources Annual Symposium. Accepted: September 15, 2023, Lexington, Kentucky.
3. S. Morgan* and **J.W. Marion**. 2023. Assessing the quality of noise monitoring equipment for evaluation and prevention of community noise exposures. National Environmental Health Association Annual Education

- Conference and Exhibition, August 1, 2023. New Orleans, Louisiana. *AEHAP Graduate Student Research Competition Award Winner.
4. J. Hamlet* and **J.W. Marion**. 2023. Antibiotic-Resistant *E. coli* in Kentucky Watersheds Impacted by Various Land Uses. Council on State and Territorial Epidemiologist Annual Conference – Infectious Disease II Panel - Striving for the Summit of Antimicrobial Resistance Surveillance. June 27, 2023, Salt Lake City, Utah.
 5. **J.W. Marion**. 2019. The impact of water aesthetics and safety perceptions on water consumption by Appalachian Kentuckians. National Environmental Health Association Annual Education Conference & Exhibition, July 11, 2019. Nashville, Tennessee.
 6. A. Kosgey*, A. Shitandi, and **J.W. Marion**. 2019. An assessment of antibiotic residues in milk from milk ATMs, street vendors, and commercial samples in Eldoret, Kenya. 3rd International Federation of Environmental Health World Academic Conference and 16th Annual Makerere University Environmental Health Student (Association Scientific Conference, April 9, 2019, Kampala, Uganda.
 7. A. Kosgey*, A. Shitandi, and **J.W. Marion**. 2018. Antibiotic misuse and intervention opportunities in Kenya: a case study on emergent and popular milk vending machines. American Public Health Association Annual Meeting, November 12, 2018. San Diego, California.
 8. S. Hughes*, and **J.W. Marion**. 2018. A tale of two nutrients: the role of N & P in promoting cyanobacteria growth in a hypereutrophic Central Kentucky lake. Ohio River Basin Consortium for Education and Research (ORBCRE) Annual Symposium, October 18-19, 2018. Crestview Hills, Kentucky.
 9. **J.W. Marion**. 2018. Cyanobacteria 101: Who, What, Where, and How? National Environmental Health Association Annual Educational Conference & Exhibition, June 27, 2018. Anaheim, California.
 10. C. Gibson*, and **J.W. Marion**. 2017. Evaluation of a simple field-based method for quantification of *E. coli* in water. American Public Health Association 145th Annual Meeting, November 7, 2017. Atlanta, Georgia.
 11. A. Kosgey*, and **J.W. Marion**. 2017. Evaluation of antibiotic residues in milk from Kenyan milk ATMs. One Health | One Global Environment Conference, October 25, 2017. Montego Bay, Jamaica.
 12. S. Craft*, and **J.W. Marion** 2017. Effectiveness of a lightweight home ozone generator for reducing *E. coli* in surface water. National Environmental Health Association 81st Annual Education Conference, July 12, 2017. Grand Rapids, Michigan.
 13. A. Kosgey*, and **J.W. Marion**. 2017. Evaluation of antibiotic residues in milk from Kenyan milk ATMs. National Environmental Health Association 81st Annual Education Conference, July 10 – 13, 2017. Grand Rapids, Michigan. **Student Research Competition Winner
 14. A. Maritim*, A. Ronnoh*, and J.W. Marion. 2017. Household water treatment effects on total coliform and *E. coli* densities at Uasin Gishu County, Kenya. National Environmental Health Association 81st Annual Education Conference, July 10 – 13, 2017. Grand Rapids, Michigan. **Student Research Competition Winner
 15. A. Kosgey*, and **J.W. Marion**. 2017. Evaluation of antibiotic residues in milk from Kenyan milk ATMs. 3rd ECU College of Health Sciences Scholars Day, April 18, Richmond, Kentucky. **Graduate EHS/MPH Student Research Competition Winner
 16. S. Petz*, C. Schwab*, **J.W. Marion**, and C. Pinon. 2017. The relationship between excess nutrients and cyanobacteria in Lake Reba. 3rd ECU College of Health Sciences Scholars Day, April 18, Richmond, Kentucky. **Undergraduate EHS Student Research Competition Winner
 17. **J.W. Marion**. 2016. Potential for corrosive water and elevated lead in private drinking water systems: a case study from Eastern Kentucky. American Public Health Association 144th Annual Meeting, October 29 – November 2, 2016, Denver, Colorado.
 18. **J.W. Marion**. 2016. Potential public health benefits associated with large-scale restoration of wetlands. 5th International EcoSummit, August 29 – September 1, 2016, Montpellier, France.
 19. S. Campbell and **J.W. Marion**. 2016. Global citizenship preparedness at Eastern Kentucky University and its benchmark learning institutions: assessing undergraduate growth and social awareness. ECU Honors Program, April 14, 2016, Richmond, KY
 20. C. Graves*, A. Porter*, and **J.W. Marion**. Evaluation of a water purification system in Haiti. 2015. Global Environmental Health Faculty Forum, September 23, Coimbra, Portugal.

21. **J. W. Marion**, P. Sigilai*, and B. Cheruiyot*. **2015** From Kentucky to Kenya: How international students returned home and quantified health benefits associated with water disinfection strategies. Global Environmental Health Faculty Forum, September 23, Coimbra, Portugal.
22. **J.W. Marion**. **2015**. Heavy metals and health effects associated with Appalachia's private water systems. Interstate Environmental Health Seminar. July 30, Cumberland Falls (Corbin), Kentucky.
23. C. Graves*, A. Porter*, and **J.W. Marion**. Testing of a water purification system in Haiti. **2015**. EKU College of Health Sciences, April 30, Richmond, Kentucky.
24. E. Kurgat* and **J.W. Marion**. **2015**. Can we get *E. coli* results faster from tryptophan fluorometry? 2015. National Environmental Health Association Annual Education Conference, July 13-15, Orlando, Florida.
25. **J.W. Marion**. **2015**. Cyanobacteria 101: Introduction to Cyanotoxic Blooms at Regional Lakes. Kentucky Association of Milk, Food, and Environmental Sanitarians Educational Conference, February 12, Lexington, Kentucky.
26. **J.W. Marion**, A. Kittoe*, B. Cheruiyot*, P. Sigilai*, J. Ruehl*, and T. Owens*. **2014**. Evaluation of heavy metal exposure and health among Appalachian groundwater users. Kentucky Engagement Conference, 19 November. Morehead, Kentucky.
27. S. Moore*, and **J.W. Marion**. Evaluating cyanobacteria concentrations in selected central Kentucky lakes. **2014**. 100th Kentucky Academy of Science Annual Meeting, Lexington, KY, November.
28. C. Graves*, A. Porter*, and **J.W. Marion**. Testing of a water purification system in Haiti. **2014**. 100th Kentucky Academy of Science Annual Meeting, Lexington, KY, November.
29. **J.W. Marion**, J. Lee, C.H. Lee, J.R. Wilkins, III, S. Lemeshow, E. Waletzko and T.J. Buckley. Rapid Phycocyanin Fluorometry Predicts Elevated Microcystin Levels in Eutrophic Ohio Lakes. **2014**. International Society of Exposure Science Meeting, Cincinnati, OH, October.
30. **J. W. Marion**, P. Sigilai*, and B. Cheruiyot*. Quantifiable public health benefits associated with drinking water disinfection. **2014**. International Federation of Environmental Health World Congress & National Environmental Health Association Annual Education Conference Joint Meeting, Las Vegas, NV, July.
31. B. Cheruiyot*, P. Sigilai*, and **J.W. Marion**. Water treatment practices prevent gastrointestinal illness in Western Kenya. **2013**. Kentucky Academy of Science, 99th Annual Meeting, Morehead, KY, November. (*Indicates Mentored Students); 2nd Place Winner in Health Sciences Graduate Competition
32. **J. W. Marion**, P. Sigilai*, and B. Cheruiyot*. Quantifiable public health benefits associated with drinking water disinfection. **2013**. American Public Health Association, 141st Annual Meeting, Boston, MA, November.
33. **J.W. Marion**, C. Lee, C-S. Lee, S. Lemeshow, T.J. Buckley, and Lee. Integrative health risks associated with recreational water exposure to viral and bacterial contaminants. **2013**. American Public Health Association, 141st Annual Meeting, Boston, MA, November.
34. **J.W. Marion**, J. Lee, S. Lemeshow, J.R. Wilkins, III, and T.J. Buckley. *E. coli* densities are associated with gastrointestinal illness among recreational water users at an inland beach. **2012**. Kentucky Academy of Sciences. 98th Annual Meeting, Richmond, KY, October.
35. J. Lee, **J.W. Marion**, C.S. Lee, C.H. Lee, and T.J. Buckley. Comparing Swimming-Related Illness Associations with Fecal Indicators Quantified by qPCR and Culture-based Methods at a Freshwater Beach. **2011**. U.S. EPA National Beach Conference, March 15-17.
36. **J.W. Marion**, J. Lee and T.J. Buckley. Storms and Total Phosphorus: Practical and Rapid Predictors of Advisory Conditions at Inland Ohio Beaches. **2010**. Water Management Association of Ohio 2010 Conference, November 17-18. Columbus, Ohio.
37. **J.W. Marion**, J. Lee, T.J. Buckley, J. Rosenblum, P. Chiang, M.J. Lofton, S. Zolinski, K. Wetzel and M. Farley. Association of Illness and Recreational Water Exposure During Non-Advisory conditions at an Inland U.S. Beach. **2010**. The Water Research Conference, International Water Association, April 11-14. Lisbon, Portugal.
38. **J.W. Marion** and S. Ganguly. **2006**. Geographic and Temporal Factors Affecting College Degree Attainment in Seven Appalachian States. 12th Biennial Conference on Appalachian Geography. March 17. Pipestem, WV.
39. **J.W. Marion**. Geographic and Temporal Factors Affecting College Degree Attainment in Seven Appalachian States. **2006**. Appalachian Studies Conference. March 18. Dayton, OH.

40. **J.W. Marion**, J.P. Kilroy, T. Torrence, J. Wiggington and A. Harris. *A comparison of environmental attitudes and perceptions in two Kentucky Counties*. **2003**. Appalachian Regional Commission's Appalachian Teaching Project Conference. November 15-16. Washington, D.C.

Poster Presentations (*Indicates EKU or NSF-REU Student)

1. C. Boggs*, K. Shiferawe*, E. Karsten*, J. Hamlet*, and **J.W. Marion**. **2023**. Deployment and Evaluation of a Tetracycline-Resistant *E. coli* Enumeration Approach for Surface Water. One Health, One Global Environment Conference. October 2, 2023. Montego Bay, Jamaica.
2. O. Salazar* and **J.W. Marion**. **2023**. Surveillance for antibiotic-resistant *E. coli* in wildlife feces from areas disturbed by agricultural and residential land uses in Appalachian Kentucky. One Health, One Global Environment Conference. October 2, 2023. Montego Bay, Jamaica.
3. S. Morgan* and **J.W. Marion**. **2023**. Assessing the quality of noise monitoring equipment for evaluation and prevention of community noise exposures. National Environmental Health Association Annual Education Conference and Exhibition, July 31. New Orleans, Louisiana. *AEHAP Graduate Student Research Competition Award Winner.
4. S.A. Hayworth, D.G. Brown, and **J.W. Marion**. **2023**. Sunburn frequency and sun protection attitudes among ocean lifeguards at Florida Beaches. Council on State & Territorial Epidemiologist Annual Conference. July 26. Salt Lake City, Utah.
5. C. Boggs*, K. Shiferawe*, E. Karsten*, J. Hamlet*, and **J.W. Marion**. **2023**. Deployment and Evaluation of a Tetracycline-Resistant *E. coli* Enumeration Approach for Surface Water. Dr. William H. Martin Appalachian Research Symposium. June 13. Lilley Cornett Woods, Hallie, Kentucky.
6. O. Salazar* and **J.W. Marion**. **2023**. Surveillance for antibiotic-resistant *E. coli* in wildlife feces from areas disturbed by agricultural and residential land uses in Appalachian Kentucky. Dr. William H. Martin Appalachian Research Symposium. June 13. Lilley Cornett Woods, Hallie, Kentucky.
7. S.A. Hayworth, D.G. Brown, and **J.W. Marion**. **2023**. Sunburn frequency and sun protection attitudes among ocean lifeguards at Florida Beaches. John P. Wyatt Environment and Health Symposium. April 20. Lexington, Kentucky.
8. O. Salazar* and **J.W. Marion**. **2023**. Analysis of antibiotic-resistant *E. coli* in wildlife within various land uses in Appalachian Kentucky. 84th Annual Meeting of the Association of Southeastern Biologists. March 23-26. Winston-Salem, North Carolina.
9. S.A. Hayworth*, D.G. Brown, and **J.W. Marion**. **2023**. Sunburn frequency and sun protection attitudes among ocean lifeguards at Florida Beaches. Southeast Regional Research Symposium with the Southeastern States Occupational Network. February 27 - March 1. Tampa, Florida.
10. O. Salazar* and **J.W. Marion**. **2022**. Analysis of antibiotic-resistant *E. coli* in wildlife within various land uses in Appalachian Kentucky. 108th Kentucky Academy of Science. November 10-12. Morehead, Kentucky.
11. **J.W. Marion**, E. Baldrige, and A. Strand. **2019**. Changes in student behaviors and attitudes regarding e-cigarettes and related policies at a Kentucky University from 2014 to 2018. American Public Health Association, November 2 – November 6, 2019. Philadelphia, Pennsylvania.
12. **J.W. Marion**, and M.K. Richardson. 2019. Assessment of MRSA nasal carriage among Kentucky cattle workers. American Public Health Association, November 2 – November 6, 2019. Philadelphia, Pennsylvania.
13. M. Shenkel*, L.J. Larkin, J.M. Larkin, and **J.W. Marion**. **2018**. Grip strength as a measure of fitness: a correlation of grip strength, overweight and obese college students. EKU College of Health Sciences 4th Annual Scholars Day, April 24, 2018. Richmond, Kentucky.
14. A. Front*, and **J.W. Marion**. 2018. Antibiotic resistance in heterotrophic bacteria at two Kentucky wastewater plants. EKU University Fellows Showcase, April 12, 2018. Richmond, Kentucky.
15. A. Kosgey*, and **J.W. Marion**. **2017** (Oral & Poster Presenter). Evaluation of antibiotic residues in milk from Kenyan milk ATMs. National Environmental Health Association 81st Annual Education Conference, July 10 – 13, 2017. Grand Rapids, Michigan. **Student Research Competition Winner
16. A. Maritim*, A. Ronnoh*, and J.W. Marion. **2017** (Oral & Poster Presenter). Household water treatment effects on total coliform and *E. coli* densities at Uasin Gishu County, Kenya. National Environmental Health Association 81st Annual Education Conference, July 10 – 13, 2017. Grand Rapids, Michigan. **Student Research Competition Winner

17. E. Kurgat*, **J.W. Marion**, and M. Verhougstraete. **2017**. Can we get *E. coli* results faster with tryptophan fluorometry. UNC Water Microbiology Conference / 19th Annual International Symposium on Health-Related Water Microbiology. Chapel Hill, North Carolina. May 15 – 19, 2017.
18. S. Petz*, C. Schwabb*, C. Pinion, and **J.W. Marion**. **2017**. The Relationship Between Excess Nutrients and Cyanobacteria in Lake Reba. (Undergraduate winning poster). ECU College of Health Sciences Scholars Day, April 18, 2017.
19. A. Kosgey*, and **J.W. Marion**. **2017**. Evaluation of antibiotic residues in milk from Kenyan milk ATMs. (Graduate winning poster). ECU College of Health Sciences Scholars Day, April 18, 2017.
20. A. Broaddus, L.J. Larkin, C. Miller, **J.W. Marion**, K. Brewer, and L. Schwartz. **2017**. Perceived barriers among local health departments implementing a syringe exchange program in Kentucky. ECU College of Health Sciences Scholars Day, April 18, 2017.
21. W. Strait III*, and **J.W. Marion**. **2017**. Can hemp media filter *E. coli* better than current water filtering media?. Kentucky Public Health Association Annual Meeting. (Building Epidemiological Capacity in Kentucky [BECKY] Award Winner) March 11 -13, 2017.
22. A. Broaddus, L.J. Larkin, C. Miller, **J.W. Marion**, K. Brewer, and L. Schwartz. **2017**. Perceived barriers among local health departments implementing a syringe exchange program in Kentucky. Kentucky Public Health Association Annual Meeting. March 11 -13, 2017.
23. Ronnoh*, A. Maritim*, J.P. Klyza, and **J.W. Marion**. **2016**. Effectiveness of household treatment methods on drinking water in Western Kenya. ECU College of Health Sciences Scholars Day, April 19, 2016
24. M. Leece*, A. Maritim*, J. Kendrick*, and **J.W. Marion**. **2016**. Direct natural sunlight for disinfecting water from Copper Creek in Rockcastle County, Kentucky. ECU College of Health Sciences Scholars Day, April 19, 2016
25. J. Hisel, J.P. Klyza, and **J.W. Marion**. **2016**. Prevalence of herpes simplex virus (HSV-1) in individuals with Alzheimer's disease. ECU College of Health Sciences Scholars Day, April 19, 2016
26. **J.W. Marion**. 2016. Heavy metals and health effects associated with Appalachia's private water systems. Lilley Cornett Woods. June 7, **2016**, Lilley Cornett Woods, Hallie, Kentucky.
27. Strand*, and **J.W. Marion**. **2015**. Student attitudes and perceptions about e-cigarettes and a tobacco-free campus policy at a Kentucky University. American Public Health Association 143rd Annual Meeting. November 2, Chicago, IL.
28. M. Jones*, and **J.W. Marion**. **2015**. An assessment of fecal contamination in well water in Southern Niger, Africa. Global Environmental Health Faculty Forum, September 24, Coimbra, Portugal.
29. C. Graves*, A. Porter*, and **J.W. Marion**. Testing of a water purification system in Haiti. **2015**. ECU College of Health Sciences, April 30, Richmond, Kentucky.
30. M. Jones*, and **J.W. Marion**. An assessment of fecal contamination in well water in Southern Niger, Africa. **2015**. ECU College of Health Sciences, April 30, Richmond, Kentucky.
31. E. Kurgat and **J.W. Marion**. Can we get *E. coli* results faster from tryptophan fluorometry? **2015**. University Presentation Showcase, Graduate Division, April 17, Richmond, Kentucky (**Top Poster Winner**)
32. C. Graves*, A. Porter*, and **J.W. Marion**. Testing of a water purification system in Haiti. **2015**. University Presentation Undergraduate Division, April 17, Richmond, Kentucky. (**Runner-Up Poster Winner**).
33. **J.W. Marion**, F. Richardson*, J. Lee, and T.J. Buckley. Linking environmental exposures and sunburn incidence among beach users at East Fork Lake, Ohio, USA. **2014**. American Public Health Association, 142nd meeting. November 15 – 19. New Orleans, LA.
34. **J.W. Marion**, A. Kittoe*, B. Cheruiyot*, P. Sigilai*, J. Ruehl*, and T. Owens*. Evaluation of heavy metal exposure and health among Appalachian groundwater users. **2014**. American Public Health Association, 142nd meeting. November 15 – 19. New Orleans, LA.
35. M. Holmes*, H. Ward*, B. Johnson*, **J.W. Marion***, and B. Staddon. Incidence of Antibiotic Resistance Genes in Well Water from Southeastern Kentucky. **2014**. 100th Kentucky Academy of Science Annual Meeting, Lexington, KY, November.
36. M. Holmes*, H. Ward*, and B. Johnson* (Mentors: B. Staddon and **J. Marion**). Incidence of Antibiotic Resistance Genes and Human Fecal Bacteria in Well Water. **2014**. ECU Undergraduate Showcase. Richmond, KY. April.
37. H. Ward* (Mentors: B. Staddon and **J. Marion**). Incidence of Antibiotic Resistance Genes and Human Fecal Bacteria in Well Water. **2014**. Posters at the Capitol. Frankfort, KY. February.

38. C. Lee, **J. Marion** and J. Lee. The potential association between toxin-producing Cyanobacteria and fecal contamination in Lake Erie beaches beach waters. American Society for Microbiology. **2012**. 112th General Meeting, San Francisco, June.
39. J. Lee, **J. Marion**, C.S. Lee and T.J. Buckley. Integrative health risks measured with multiple genetic markers in Ohio inland beaches. **2011**. National Environmental Health Association Meeting. Columbus, OH. June.
40. V. Burrowes, **J. Marion**, C.S. Lee, and J. Lee. Intense human impact on microbial contamination during the Ohio State University annual Mirror Lake Jump 2010. **2011**. American Society of Microbiology 111th General Meeting, New Orleans, May.
41. **J. Marion**, J. Lee and T. J. Buckley. Reservoir inflows and total phosphorus: practical and rapid predictors of *E. coli* densities at inland Ohio beaches. **2011**. American Society of Microbiology 111th General Meeting, May. New Orleans, LA.
42. J. Lee, C. Lee, and **J. Marion**. **2011**. Identifying major fecal contamination sources using multiple genetic markers at Lake Erie beaches. American Society of Microbiology 111th General Meeting, May, New Orleans.
43. **J.W. Marion**, J. Lee, and T.J. Buckley. Should I Keep my *E. coli* Plates? **2011**. A Practical and Rapid Approach to Estimate *E. coli* Densities at Inland Ohio Beaches. U.S. EPA National Beach Conference, March 15-17. Miami, FL.
44. J. Lee, C. Lee, **J. Marion**, F. Lichtkoppler and R. Zondag. **2011**. Who polluted the water? Microbial forensics for identifying major fecal contamination sources at Lake Erie Beaches. U.S. EPA National Beach Conference, March 15-17. Miami, FL
45. **J.W. Marion**, J. Lee and T.J. Buckley. Storms and Total Phosphorus: Practical and Rapid Predictors of Advisory Conditions at Inland Ohio Beaches. **2010**. [Accepted for oral and poster presentation at the Water Management Association of Ohio 2010 Conference, November 17-18. Columbus, Ohio].*Most Outstanding Poster Winner
46. **J.W. Marion** and J. Lee. **2009**. Determining Research Needs at Ohio Inland Lakes Not Covered by the BEACH Act. *Proceedings of the 2009 National Beach Conference*. April 20-22. Huntington Beach, CA
47. B.C. Reeder, A.D. Haight, **J.W. Marion**, P.W. Whitley and R.C. Johnson. **2005**. *Assessment of electronic component waste in Appalachia*. Final Report to USEPA Rural Environmental Academy: Addressing Environmental Justice through an Environmental and Public Policy Research Network.
48. B.C. Reeder, G. Gearer, **J.W. Marion**, P.W. Whitley and J.Hunt. **2005**. *Trends in water quality in the upper Licking River after sewage upgrades*. Final Report to Kentucky PRIDE.
49. B.C. Reeder, T. Leonard, **J.W. Marion**, P.W. Whitley, L. Crum, J. Hunt, C. Shields and J. Thompson. *Water quality trends in the Upper Licking River Watershed: physical and chemical parameters 2003-2004*. **2005**. 21st Annual Scientific Symposium of the Ohio River Basin Consortium for Research and Education (ORBCRE). October 26-28. Huntington, WV.

Panel Presentations

1. **J.W. Marion** (Panel Chair), N. McCoy, J. Unrine, S. Scott. **2020**. Martin County Water 2000 to 2020. Children's Environmental Health Summit, Kentucky Department of Public Health. June 11, 2020. Virtual.
2. **J.W. Marion** (Panel Chair), A.M. Zimeri, C.Pinion, Jr., and V. Grabeel. **2019**. Movers and matchmakers: faculty & practitioner roles for preparing future professionals for a future EH era. National Environmental Health Association Annual Education Conference & Exhibition, July 11, 2019. Nashville, Tennessee.
3. M. Barnett (Panel Chair), R. Buckley, A. Foster, and **J.W. Marion**. **2019**. Community in crisis: operating within your emergency operation plan. National Environmental Health Association Annual Education Conference & Exhibition, July 11, 2019. Nashville, Tennessee.
4. L. Bricknell , Chair (Central Queensland University, Australia), J. Kyomuhangi (Uganda Ministry of Health), D. Musoke (Makerere University, Uganda), and **J.W. Marion**. **2019**. Engineering environmental health training and practice to tackle global challenges. Panel role: Environmental health training and education in the U.S. 3rd International Federation of Environmental Health World Academic Conference and 16th Annual Makerere University Environmental Health Student Association Scientific Conference, April 9, 2019, Kampala, Uganda.

5. D.T. Dyjack, B.W. Brooks, A. Dyjack and **J.W. Marion. 2017.** The environmental health profession becoming a leader, connector, and interdisciplinary catalyst for One Health. One Health | One Global Environment Conference, October 25, 2017. Montego Bay, Jamaica.

Invited Talks

1. Global public health from Kentucky to Kenya at the intersection of human health and the environment. Invited lecture for first-year seminar "Do We Need More than Good Intentions?", Frank H. Netter, MD School of Medicine at Quinnipiac, Department of Cultural and Global Engagement with Dr. Amy Bellman Davis, Associate Director of Global Public Health and Experiential Learning. **November 17, 2022.**
2. Invited Talk for the faculty and students of the Kisii University School of Pure & Applied Sciences, School of Health Sciences, and School of Agriculture and Natural Resources Management. **October 11, 2022.** Assessing Kentucky and Kenyan Waters for Enabling Global Actions Combating Antibiotic Resistance and Fecal Contamination: The Journey from Inland U.S. Recreational Water Quality to International Environmental Health. Kisii, Kenya.
3. Unconventional Threats and Responses Course (HLS 435). **November 2, 2021, March 3, 2022, April 4, 2023.** Climate impacts on environmental health and responding to the knowns and unknowns. By invitation of Dr. Joann McGlown Eastern Kentucky University, College of Justice & Safety, Department of Homeland Security, Richmond, Kentucky.
4. Writing Public Science Course (UK-WRD 305). February 16, **2022.** Our Water Quality, Health, and Perceptions: Lessons from Appalachian Kentucky and the Midwest. By invitation of Dr. Katherine Rogers-Carpenter, University of Kentucky, College of Arts & Sciences, Department of Writing, Rhetoric, and Digital Studies, Lexington, Kentucky via Zoom.
5. Writing Public Science Course (UK-WRD 305). February 27, **2020.** Our Water Quality, Health, and Perceptions: Lessons from Appalachian Kentucky and the Midwest. By invitation of Dr. Katherine Rogers-Carpenter, University of Kentucky, College of Arts & Sciences, Department of Writing, Rhetoric, and Digital Studies, Lexington, Kentucky via Skype.
6. Unconventional Threats and Responses Course (HLS 435). March 26, **2019.** Climate impacts on environmental health and responding to the knowns and unknowns. By invitation of Dr. Joann McGlown Eastern Kentucky University, College of Justice & Safety, Department of Homeland Security, Richmond, Kentucky.
7. Eastern Kentucky University Scholars Institute, Richmond, Kentucky. May 15 & 16, **2018.** (1) Finding Funding Resources and panelist for (2) Grant Writing Basics.
8. Unconventional Threats and Responses Course (HLS 435). April 10, **2018.** Climate impacts on environmental health and responding to the knowns and unknowns. Eastern Kentucky University, College of Justice & Safety, Department of Homeland Security, Richmond, Kentucky.
9. Zhejiang Medicine Company Environmental Health and Safety Workshop, Shaoxing, Zhejiang, P.R. China. July 18, **2017.** Managing Waste & Wastewater for Ensuring Product Quality and Protecting Environmental Health – Part II.
10. Baylor University Environmental Health Science Department Seminar, Waco, TX, April 12, **2017.** The journey from inland U.S. recreational water quality to international environmental health.
11. Zhejiang Medicine Company Environmental Health and Safety Workshop, Shaoxing, Zhejiang, P.R. China. July 12, **2016.** Managing Pharmaceutical Waste & Wastewater for Ensuring Product Quality and Protecting Environmental Health.
12. Interstate Seminar in Environmental Health, Savannah, GA, July, **2014.** Quantifiable public health benefits associated with drinking water disinfection.
13. EKU Environmental Health Symposium, Richmond, KY, April, **2014.** Quantifiable public health benefits associated with drinking water disinfection.
14. Morehead State University Biology Seminar, March 14, **2014.** Rapid phyocyanin fluorometry predicts cyanotoxins in eutrophic lakes. Morehead, Kentucky.
15. Introduction to Global Health (HEA 310) Class. February 28, **2014.** Quantifiable public health benefits associated with drinking water disinfection. Eastern Kentucky University, Richmond, Kentucky.

16. Kentucky Association of Milk, Food, and Environmental Sanitarians. February 20, **2014**. Water quality in Kenya. Marriott Griffin Gate, Lexington, Kentucky.
17. Eastern Kentucky University Biology Seminar, September 13, **2013**. Heavy metals exposure and health among southeastern Kentucky well water users. Richmond, Kentucky.

TEACHING

Courses Directed

| | |
|-------------------|--|
| 2020 – Current | EKU EHS 300 – Water and Health |
| 2020 – Current | EKU EHS 370 – Environmental Disease Detectives: Environmental Epidemiology |
| 2020 – Current | EKU EHS 230 – Recreational Health |
| 2020 – Current | EKU MPH 840 – Research Methods in Public Health |
| 2017, 2020, 2024 | EKU HON 317 – Essentials of Life (Honors Air & Water Course) |
| 2017 – 2020 | EKU EHS 835 – Survey of Public Health Statistical Analysis Methods |
| 2013 – 2019 | EKU EHS 300 – Water Supply and Wastewater Management |
| 2013 – 2019 | EKU EHS 300 – Water Supply and Wastewater Management Lab |
| 2015 – 2019 | EKU HEA 830 /MPH 830 – Biostatistics in Health Sciences |
| 2012 – 2019 | EKU EHS 370 – Environmental Epidemiology and Risk Assessment |
| 2014 – 2019 | EKU MPH 800/EHS 800 – Environmental Health Research Process |
| 2013 – 2015 | EKU MPH 895 – Public Health Capstone |
| 2013 – 2019, 2023 | EKU EHS 890 – Graduate Project in Environmental Health |
| 2012 – 2013 | EKU EHS 440 – Environmental and Industrial Toxicology |
| 2012 – 2015 | EKU EHS 230 – Diseases and Hazards of Leisure |

MS Committees

2014 – 2016 John C. Bourne (Biology)

MPH Research Mentorship

| | | | |
|------|------------------------------|------|----------------------|
| 2024 | Oluwafeyisayo (Feyi) Obadium | | |
| 2024 | Sharon Kosgei | 2024 | Matthew Quansah |
| 2023 | Callie Boggs | 2024 | Alonta' Linton |
| 2023 | Tyler Fields | 2023 | Firas Sofyan |
| 2023 | Lareka Boyd | 2023 | Sarah Morgan |
| 2021 | Samuel Hayworth | 2021 | Kidus Shiferawe |
| 2021 | Camara Vasaly | 2021 | Yoshua Reed |
| 2021 | Seydou Doumbouya | 2019 | Larissa Watkins |
| 2018 | Abraham Maritim | 2019 | McKenzie Hopkins |
| 2018 | Elliott Baldrige | 2018 | MacKenzie Richardson |
| 2018 | Michael Shenkel | 2017 | Sydney Thurman |
| 2017 | Sarah Hughes | 2017 | Arkadiusz Front |
| 2017 | Amos Kosgey | 2017 | Julie Osman |
| 2016 | Will Strait, III | 2016 | Cassi Gibson |
| 2016 | Shelly Craft | 2016 | David Heath Stone |
| 2015 | Adams Ronnoh | 2015 | Jamie Hisel |
| 2015 | Cassi Gibson | 2015 | Richard Stockwell |
| 2015 | Melanie Jones | 2015 | Efia Taylor |
| 2014 | Elkana Kurgat | 2013 | Morgan Riley |

| | | | |
|------|---------------------|------|------------------|
| 2014 | Alina Strand | 2013 | Nicole Kennedy |
| 2014 | Andrew Todd | 2013 | Blake Dobbs |
| 2014 | Melissa Claar | 2014 | Leonard Preston |
| 2014 | Chinonye Akunne | 2013 | Natashua Leonard |
| 2014 | Folasuyi Richardson | 2013 | Alan Worley |
| 2013 | Peter Sigilai | 2013 | Ben Cheruiyot |

Undergraduate Research Mentoring

| | |
|-------------|---|
| 2022 | Olivia Salizar (NSF-REU student from University of Virginia at Wise) |
| 2022 | Jayden Hamlet (NSF-REU student from Stockton Univeristy, New Jersey) |
| 2021 | Eckhardt Karsten (NSF-REU from Miami University of Ohio) |
| 2021 | Callie Boggs |
| 2019 – 2020 | Nickson Rotich, Amber Turner, Steven Mills, Swade Banned, Lana Sexton |
| 2016 – 2017 | Steven Petz |
| 2016 – 2017 | Corrine Schwabb |
| 2016 – 2017 | Ambrose Maritim |
| 2015 – 2016 | Melissa Gemmer |
| 2015 – 2016 | Susan Campbell (EKU Honors) |
| 2014 – 2015 | Ashley Joyner (EKU Honors) |
| 2014 | Candice Graves |
| 2013 – 2014 | Elizabeth Berger (EKU Honors) |
| 2013 – 2014 | Stephanie Moore (McNair Scholar) |

CURRENT & COMPLETED RESEARCH & SERVICE SUPPORT

Current Sponsored Research & Service

| | |
|--|----------------|
| NSF/Division of Biological Infrastructure (PI: Marion) Award Number: 2320366 – <i>Equipment: MRI: Acquisition of a MALDI-TOF Mass Spectrometer for Supporting Interdisciplinary Microbiological Research and Education at Eastern Kentucky University</i> (\$381,870) | 2023 – Current |
| NIH/National Institute for Occupational Safety & Health (PI: Sanderson) EKU Project Director: D.G. Brown; Co-Director: Marion 5T42OH010278-11 - <i>Occupational Safety and Health Education and Research Centers: Central Appalachian Regional Education and Research Center</i> (\$134,815) | 2023 – Current |
| NIH/National Institute for Environmental Health Sciences (PI: Marion) R13ES032657 - <i>Integrating U.S. Environmental Health Research and Practice into the Global One Health Framework: The One Health Conference</i> Prime: NIH/NIEHS (\$8,000) | 2021 – Current |
| Internal, ECU Board of Regents Board Innovation Fund (PI: Marion) <i>Development of Coli-Count for Easy Enumeration of E. coli in Water Anywhere</i> Prime: Eastern Kentucky University (\$12,000)+(\$34,954) = (\$46,954) | 2019 – Current |

Completed Sponsored Research & Service Activities

NIH/National Institute for Occupational Safety & Health (PI: Sanderson) 2022 – 2023
 ECU Project Director: D.G. Brown; Co-Director: Marion
 5T42OH010278-11 - *Occupational Safety and Health Education and Research Centers: Central Appalachian Regional Education and Research Center* (\$134,802)

NIH/National Institute for Occupational Safety & Health (PI: Sanderson) 2021 – 2022
 ECU Project Director: D.G. Brown; Co-Director: Marion
 5T42OH010278-11 - *Occupational Safety and Health Education and Research Centers: Central Appalachian Regional Education and Research Center* (\$134,802)

Internal, ECU Board of Regents Board Innovation Fund (PI: Marion) 2019 – 2021
Rapid Detection & Enumeration of E. coli by a Novel ATP approach
 Prime: Eastern Kentucky University (\$11,686)

Internal, Eastern Kentucky University (PI: Marion) 2020 – 2021
Assessment of ColiGlow for Enumerating E. coli in Western Kenya
 Prime: Office of Sponsored Programs, Research Enhancement Grant (\$9,917)

Kentucky Water Resources Research Institute (PI: Marion) 2019 – 2020
Predicting Harmful Cyanobacteria in Central Kentucky
 Prime: U.S. Geologic Survey - 104B State Water Resources Research Institute (\$9,988)

Kentucky Water Resources Research Institute (PI: Marion) 2019 – 2020
Predicting Harmful Cyanobacteria in Central Kentucky
 Prime: University of Kentucky via Kentucky Water Resources Research Institute (\$5,406)

Southeast Center for Agricultural Health and Injury Prevention (PI: Marion) 2017 – 2018
Assessment of MRSA Nasal Carriage Among Kentucky Cattle Workers (\$14,200)
 Prime: Centers for Disease Control & Prevention and National Institute for Occupational Safety and Health

Internal, Eastern Kentucky University (PI: Marion) 2017 – 2018
Assessing Antibiotic Resistance in Environmental Bacteria from Wastewater Effluents in Clark County, Kentucky. (\$4,000 total). Prime (1): President's Research & Scholarship Fund \$3,500. Prime (2): College of Health Sciences \$500

Internal, Eastern Kentucky University (PI: Marion) 2017
Travel Support to Present Evaluation of a Simple Field-Based Method for Quantification of E. coli in Water at 2017 American Public Health Association Meeting
 Prime (1): President's Research & Scholarship Fund \$500

Internal, Eastern Kentucky University (PI: Marion) 2016 – 2017
Antibiotic Residues in Milk from Milk ATMs in Western Kenya (\$3,899 total). Prime (1): Office of Sponsored Programs \$2,999. Prime (2): EHS Department (\$650) // MPH Program Office \$250

Internal, Eastern Kentucky University (PI: Alice Jones) 2015 - 2016
Developing water quality field monitoring labs for Watershed Watch. (\$25,000 total)
 Prime: ECU Center for Appalachian Reg. Engagement & Stewardship \$25,000
 Role: Assist in lab setup and operations in Middlesboro and Letcher/Harlan Co. for Kentucky River & Upper Cumberland Watershed Watch

Health Resources and Services Administration (PI: Marion) 2014 – 2015
Kentucky Environmental Public Health Traineeships Program (\$246,934 total)
 \$77,411 awarded in year 1, years 2 & 3 of program not supported for all of the HRSA Public Health Trainingship Awardees.

- Internal, Eastern Kentucky University (PI: S. Moore and **J. Marion**) 2014
Evaluating Cyanobacteria and Cyanotoxins in Selected Kentucky Lakes (\$1,000 total)
 Prime: ECU Division of Natural Areas \$1,000
- Internal, Eastern Kentucky University (**PI: Marion**) 2013 – 2014
Investigating Heavy Metal Exposure and Associated Health Effects among Well Water Users in Southeastern Kentucky (\$26,500 total). Prime (1): Center for Appalachian Regional Engagement & Stewardship \$25,000
 Prime (2): MPH Program Office \$1,500
- Internal, Eastern Kentucky University (**PI: Marion**) 2012 – 2013
Gastrointestinal Illness and Public Perceptions of Drinking Water Disinfection in Western Kenya (\$9,500 total).
 Prime (1): Office of Sponsored Programs \$8,500; Prime (2): MPH Program Office \$1,500
- Ohio Lake Erie Commission, Lake Erie Protection Fund (PI: J. Lee) 2011 – 2012
Does Fecal Indicator qPCR Predict Lake Erie Pathogen Levels? (\$15,000 total)
 Role: Post-Doc, Grant co-author
- U.S. EPA, Great Lakes Restoration Initiative (PI: J. Lee) 2010 – 2012
Innovative Rapid Detection of Lake Erie Fecal Sources (\$249,511 total)
 Role: Graduate Research Assistant, Post-Doc, Project Manager, Grant Co-Author
- Ohio Lake Erie Commission, Lake Erie Protection Fund (PI: J. Lee) 2010 – 2011
Rapid detection of viable B. fragilis in Lake Erie (\$14,992 total)
 Role: Graduate Research Assistant, Grant Co-Author
- Ohio Water Development Authority, R&D Grant (PI: Buckley) 2008 – 2010
Protecting Public Health at Ohio Inland Beaches: Development of Water Quality Indicators for Recreational Microbial Exposure (\$171,259 total).
 Role: Lead Researcher (towards doctoral dissertation) and Lead Grant Author and Presenter
- Internal, The Ohio State University, PHPID (**Fellowship: Marion**) 2008 – 2010
Protecting Public Health at Ohio Inland Beaches: Development of Water Quality Indicators for Recreational Microbial Exposure (\$67,800 total). Prime: OSU Public Health Preparedness for Infectious Diseases (PHPID).
 Role: PHPID Doctoral Fellow
- U.S. EPA via University of Louisville (PI: Reeder) 2005-2006
Reading the River Education Workshop (\$70,104 total). Prime: Clean Water Act Section 319 CCWEP Grant
 Role: Graduate Student Research Assistant
- National Oceanic and Atmospheric Administration (PI: Reeder) 2005-2007
The Upper Licking River Watershed: Teaching and Monitoring through PRIDE (\$612,100 total)
 Role: Graduate Student Research Assistant
- National Oceanic and Atmospheric Administration (PI: Reeder) 2003-04
The Upper Licking River Watershed: Teaching and Monitoring through PRIDE (\$456,188 total)
 Role: Student Research Assistant
- U.S. EPA Environmental Justice Small Grants Program (PIs: Reeder, Robbins) 2003-04
Environmental Justice Research: Assessment and Analysis of Electronic Component Waste in Appalachian Kentucky (\$24,154 total)
 Role: Student Research Assistant

Funding Requests Not Supported

- NIH-NIGMS via University of Louisville (KBRIN) (PI: Marion) 2018
Risk factors for reduced heart rate variability. (\$113,537 total)
- NIH-NIGMS via University of Louisville (KBRIN) (PI: Marion) 2017
Risk factors for reduced heart rate variability. (\$113,392 total)

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| Bill & Melinda Gates Foundation (PI: Marion) | 2016 |
| <i>One Health & WASH Factors for Antimicrobial Disease Resistance Development (\$100,000 total)</i> | |
| NIH-NIGMS via University of Louisville (KBRIN) (PI: Marion) | 2016 |
| <i>Drinking water quality effects on illness and antibiotic resistance in Kenya (\$113,522 total)</i> | |
| Robert Wood Johnson Foundation (PI: A. Jones, Role Co-PI: Marion) | 2015 |
| <i>Creating a culture of health in Appalachia: Disparities and Bright Spots (\$750,000 total)</i> | |
| Kentucky Academy of Science Research Fund (PI: Marion) | 2014 |
| <i>Investigating cyanobacteria blooms and cyanotoxin formation in Kentucky Lakes (\$4,800 total)</i> | |

SELECTED PROFESSIONAL DEVELOPMENT

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| 2021 | UAccel Incubator Program Hosted by Launch Blue in collaboration with the University of Kentucky Office of Technology Commercialization and Kentucky Commercialization Ventures. (January 2021 – December 2021) |
| 2021 | NAACP Training Series: Media Communications. March 31, 2021. Hosted by Mark Thompson |
| 2020 | UAccel Cohort 1 Pre-Seed Mini-Accelerator Program for Technical Startups. Hosted by Launch Blue in collaboration with the University of Kentucky Office of Technology Commercialization and Kentucky Commercialization Ventures. (12-week program, August 2020 – December 2020) |
| 2019 – 2020 | Faculty Fellows Program in Science Communication, 2 nd Cohort. University of Kentucky Center for Appalachian Research in Environmental Sciences (UK-CARES) NIH/NIEHS P30 Center (P30ES026529). Directed by Ellen J Hahn (August 2019 – May 2020) |
| 2015 | Workshop, “NIH R15 AREA Grant Writing Workshop”, Kentucky Biomedical Research Infrastructure Network, 8 hours, Louisville, KY (November 7) |
| 2015 | Metacognition Workshop, Sandra McGuire, Eastern Kentucky University, 5 hours (October 30) |
| 2015 | Salzburg Global Seminar, Education for Global Citizenship, What, Why, and How. Global Citizenship Program 71 (GCP-71). Salzburg, Austria. 40 hours (July 13-20). |
| 2014 | Scholarship of Teaching/Community Development Syllabus & Curriculum Design 2015 Retreat. 12 hours, Maywoods Retreat Center, Crab Orchard, KY (July 6 - 7) Conference, |
| 2013 | Workshop "Academic Integrity and Diverse Student Populations", University Diversity Committee, Richmond, KY, (April 23). |
| 2013 | Workshop, “Research Capacity Building Workshop”, NIOSH Education and Research Center, University of Cincinnati, 8 hours (March 29) Conference. |
| 2012 | "32nd Annual Lilly Conference on College Teaching", Miami University, Oxford, OH, 24 hours. (November 16 - November 18). |
| 2012 | Workshop, "Diversity in the Classroom", University Diversity Committee and ECU T&L Center, Richmond, KY (November 12) |
| 2012 | Workshop, “NIH R15 AREA Grant Writing Workshop, Kentucky Biomedical Research Infrastructure Network, 8 hours. (October 19) |

- 2012 Seminar, "Sexual and Gender Identity: What is Normal?", ECU Women and Gender Studies, Richmond, KY, (October 17).
- 2012 Workshop, "Accommodating Students with Disabilities: The Do's, the Don't's, and All In-Between", ECU Teaching and Learning Center, Richmond, KY, (October 1).
- 2012 Workshop, "Getting the Maximum Out of Your IDEAs", ECU Teaching and Learning Center, Richmond, KY, (September 24)
- 2012 Workshop, "Web Instruction and Support Learning Session", ECU Teaching and Learning Center, Richmond, KY, (September 5).
- 2012 Workshop, "Working with Academic Integrity", ECU Teaching and Learning Center, Richmond, KY, (August 22)