

# Ethell Vereen, Jr.

Assistant Professor of Biology  
Morehouse College

Division of Science and Mathematics  
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## EDUCATION

- University of Georgia**      Doctor of Philosophy in Ecology      01/2006 – 12/2010  
Athens, Georgia  
Dissertation Title: “Defining Linkages between Land-Use, *Salmonella*, and *Campylobacter* in the Satilla River Basin”  
Advisor: Erin K. Lipp, PhD
- University of Georgia**      Master of Science in Env Health      08/2002 – 08/2005  
Athens, Georgia  
Thesis: Fate and Ecology of *Campylobacter* in a Southeastern Georgia Watershed  
Advisor: Erin K. Lipp, PhD
- SC State University**      Bachelor of Science in Biology      06/1998 – 05/2002  
Orangeburg, South Carolina

## ACADEMIC EXPERIENCE

- Assistant Professor of Biology**  
Morehouse College, Atlanta, GA      08/2015 – Present
- Adjunct Instructor**  
Atlanta Metropolitan College, Atlanta, GA      08/2014 – 08/2015
- Post-doctoral Fellowship Instructor**  
Emory University and Clark Atlanta University, Atlanta, GA      08/2012 – 06/2014

## COURSES TAUGHT

† indicates course developed. Primary instructor unless noted otherwise.

### Morehouse College

†Men’s Health (BIO 105), †Men’s Health Lab (BIO 105L), †Co-Instructor, Principles of Microbiology (BIO 321), †Co-Instructor, Principles of Microbiology Lab (BIO 321L), General Biology for Majors (BIO 111-112), General Biology Lab for Majors (BIO 111L – BIO112L), Biology for Non-majors (BIO 101), Biology for Non-majors Lab (BIO 101L)

**Atlanta Metropolitan College**

General Biology (HBIO 111), Principles of Biology II Lecture (BIOL 1108), Principles of Biology II Lab (BLAB 1108), Fundamentals of Microbiology Lab (BLAB 2215), Principles of Biology Lab I (BLAB 1107), General Science Lecture (GSCI 1101), General Science Lab (GSCL 1101)

**Emory University**

† Co-Instructor, Research Methods for Studies of Water and Health, Graduate level course

**Clark Atlanta University**

† Seminar in Biology, Upper level Undergraduate course  
Co-Instructor, Introductory Biology 111 and Biology 112

**EMPLOYMENT AND RESEARCH EXPERIENCE****Assistant Professor**

08/2015 - Present

Division of Science and Mathematics  
Department of Biology, Morehouse College, Atlanta, GA

**Duties:**

- Teach undergraduate biology courses; Carry out 9 to 12 semester hours of instruction
- Attend faculty and departmental meetings
- Accept committee assignments
- Available for student advisement and other student activity
- Conduct scholarly research
- Participate in ceremonial events, i.e. Commencement, Baccalaureate and Founder's Day

**Adjunct Instructor**

08/2014 – 08/2015

Division of Science, Mathematics, and Health Professions  
Department of Biology, Atlanta Metropolitan College, Atlanta, GA

**Duties:**

- Teach undergraduate biology lecture and laboratory courses for majors and non-majors
- Create lab packets and templates
- Perform clerical duties as assigned
- Perform other related duties as required by the Dean

**Postdoctoral Fellow** (40+hr/week)

06/2011 – 06/2014

Fellowship In Research and Science Teaching (FIRST), K12  
Institutional Research and Academic Career Development Award  
Department of Environmental Health, Emory University, Atlanta, GA  
Research Mentor: Dr. Karen Levy

### Duties

- Assessed potential microbial intrusion and regrowth in the City of Atlanta, GA drinking water distribution system using research methods for studies of water and health including microbial and molecular methods for identification and detection of bacterial indicators, waterborne pathogens and water quality monitoring using an automated monitoring and sampling device
- Composed and edited scientific manuscripts, progress reports, and technical reports
- Organized and presented oral and poster presentations at local, national, and international conferences
- Collaborated with fellow researchers to acquire data and publish manuscripts
- Project funded by the US EPA and the Water Research Foundation

**Postdoctoral Lab Coordinator** (40+hr/week) 06/2011 – 06/2014  
Department of Environmental Health, Emory University, Atlanta, GA  
Research Mentor: Dr. Karen Levy

### Duties

- Organized academic start-up of bio-safety level 2 lab, and created database for chemicals and bacterial collections
- Maintained laboratory supplies for research projects; including creating laboratory budget, ordering supplies, and maintaining laboratory inventory
- Managed student worker research support; including student laboratory training and scheduling
- Maintained lab safety per the Environmental Health and Safety Office standards; including conducting routine lab inspection and evaluation
- Completed courses in laboratory management and ethics

**Student Trainee, Microbiology** (40hr/week) 08/2003 – 05/2011  
Student Career Experience Program (*SCEP*) *appointment*, GS-11,  
USDA-ARS Southeast Watershed Research Laboratory, Tifton, GA

### Duties

- Trained to develop and conduct research experiments and analyze research data focusing on water quality and microbial ecology in agricultural and coastal plain watersheds
- Managed data from field and laboratory studies to obtain verifiable and defensible results
- Composed and delivered technical and non-technical reports, briefings and presentations on research to diverse audiences collaborating with different scientists and various stakeholders

Ph.D. Research, Odum School of Ecology 01/2006 – 12/2010  
University of Georgia, Athens, GA

My graduate studies focused on investigating the presence of the pathogens *Salmonella* and *Campylobacter* in the stream network of the Satilla River Basin and the effectiveness of using standard indicator organisms to predict the presence of

*Salmonella* and *Campylobacter* using traditional culture and molecular methods of microbial detection; such as direct microscopy, growth on diagnostic media, and polymerase chain reaction (PCR) for detection and identification of these pathogens. This research project provided me the opportunity to interact with a diverse scientific team, as well as the extension agents and farmers within the counties where I conducted my research.

M.S. Research, Environmental Health Science Department 08/2002 – 08/2005  
University of Georgia, Athens, GA

- My MS work focused exclusively on *Campylobacter*, specifically the seasonal prevalence of *Campylobacter* using traditional detection methods (direct spread plating). Additionally, I conducted a microcosm experiment to determine the persistence and survival of *Campylobacter jejuni* in environmental waters. This research project provided me the opportunity to develop skills in the application of traditional and molecular techniques in environmental microbiology, and water quality detection and analysis

Research Intern, South Carolina Department of Natural Resources 06/2000 – 08/2000  
Marine Resources Research Institute (MRRI), Charleston, SC

- Worked in the Algal Ecology Lab
  - Mentor: Alan J. Lewitus, PhD
- Gained skills in Phytoplankton identification and enumeration, nutrient analyses, and determination of *Microcystis* spp. toxicity using an enzyme linked immunosorbent assay (ELISA)

Research Intern, United States Department of Agriculture- 06/1999 – 08/1999  
Agricultural Research Services (USDA-ARS),  
Richard B. Russell Research Center  
Athens, GA

- Worked in the Quality Assessment Research Unit
  - Mentor: Danny E. Akin, PhD
- Gained skills in histochemistry, light microscopy, and extensive use of the Fried's test in enzyme-retting of the flax plant of the species *Linum usitatissimum*

## MENTORED STUDENTS

Dr. Johnasha Stuart, Fellowship in Research and Science Teaching (FIRST) Institutional Research and Academic Career Development Award (IRACDA) Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2019, Morehouse College

Dr. Pearl Ryder, FIRST IRACDA Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2018, Morehouse College

Dr. Kelsey Gray, Emory-Tibet Science Initiative Postdoctoral Fellow at Emory University; Teaching Mentor, 2018, Morehouse College

Dr. Heidi Kloefkorn, FIRST IRACDA Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2017, Morehouse College

Madeleine Buckner-McCurdy, Undergraduate research advisor, Spring 2019, Public Health Practicum, Spelman College

Daneisha Bowles, Undergraduate research advisor, Fall 2016, Public Health Practicum, Clark Atlanta University

Emmanuel Lozada, Post baccalaureate co-advisor, 2012-2013, Preparatory Research Experience Post baccalaureate Program (PREP), Emory University

## OTHER SKILLS

- Competent and experienced with various water quality monitoring and assessment of field data collection and analysis (such as water flow, temperature, conductivity, pH, turbidity and indicator organisms) in compliance with the Clean Water Act; as well as skilled in the use of ultrafiltration for filtering large volumes of water.
- Competent and experienced with various laboratory safety and procedures for handling microbiological specimens, including aseptic techniques as I have worked in both basic teaching and research laboratories (bio-safety level 1) and primary diagnostic research laboratories (bio-safety level 2).
- Familiar with various statistical software packages, including: R, SAS, Minitab, and GraphPad Prism.

## HONORS & AWARDS

Vulcan Excellence in Teaching Award Recipient, Morehouse College, 2019

Inducted as an Honorary Member to the National Society of Leadership and Success, through Sigma Alpha Pi Morehouse College Chapter, 2018

Selected for Profile as an "Amazing Student" on University of Georgia website, 2010

- Web address: <http://www.uga.edu/amazing/vereen2.html>

Infectious Disease Departmental Retreat, University of Georgia College of Veterinary Medicine

- First Place Graduate Student Oral Presentation Category, 2010

104<sup>th</sup> General Meeting of the American Society for Microbiology

- Corporate Activities Program Student Travel Grant, 2004

E. Broadus Browne Research Award, Environmental Health Science, 2004

Southeastern Estuarine Research Society Fall Meeting

- Best Graduate Student Presentation, 2002
- Student Travel Grant, 2002

B.S. with Honors (South Carolina State University), 2002

Who's Who Among Students in American Universities and Colleges, 2002

Alpha Kappa Mu National Honor Society, 2001

Beta Kappa Chi National Science Honor Society, 2000

The Louis Stokes South Carolina Alliance for Minority Participation Program (SCAMP)

- Most Outstanding Summer Research Intern, 1999

South Carolina State University Presidential Scholar (4 years), 1998

## **PROFESSIONAL AFFILIATIONS**

Georgia Institute of Technology, School of Civil and Environmental Engineering  
Center for Global Safe Water, Sanitation, and Hygiene (CGSW)  
National Science Teachers Association (NSTA)  
National Research Mentoring Network (NRMN)  
National Society of Leadership and Success  
Emory University Minority Postdoctoral Council & Minority Mentoring Program  
American Society for Microbiology (ASM)  
South Eastern Branch ASM  
Ecological Society of America (ESA)  
South Eastern Estuarine Research Society (SEERS)  
The National Society for Minorities in Agriculture, Natural Resources and Related Sciences  
(MANRRS)  
Beta Kappa Chi National Scientific Honor Society

## **PROFESSIONAL DEVELOPMENT**

July 26-27, 2018. 2018 Leadership Alliance Network (LANS) Grant Writing Coaching  
Groups for Faculty Workshop. Hartford Marriott, Hartford, CT.

May 23-25, 2018. Pan-African Approaches to Teaching Geoscience Workshop.  
Morehouse College. Atlanta, GA.

April 7, 2018. Guided-Inquiry Workshop. Morehouse College. Atlanta, GA.

August 11-12, 2016. MPAGE PanAfrican Pedagogy Summer Institute. Faculty  
Development Center, Morehouse College. Atlanta, GA

July 27-29, 2016. 5<sup>th</sup> Annual STEM Forum and Expo hosted by NSTA (National Science  
Teachers Association). Denver, Colorado

May 25-26, 2016. From Watersheds to Showerheads: A Workshop on Legionella  
Research and Policy. Rollins School of Public Health at Emory University. Atlanta, GA.

May 18, 2016. Scholarship of Teaching and Learning (SOTL) Summer Roundtable  
Workshop. Faculty Development Center, Morehouse College. Atlanta, GA.

November 13-15, 2015. 101<sup>st</sup> Annual Southeastern Branch Meeting of American Society  
for Microbiology (Regional meeting, Kennesaw State University, Kennesaw, GA)

**SERVICE**

Reviewer, Journal of Applied Microbiology

Reviewer, National Science Foundation (NSF), Geoscience Panel, 2019

Reviewer, Kansas NSF EPSCoR (Established Program to Stimulate Competitive Research), 2019

Reviewer, Science of the Total Environment Journal

Reviewer, Computational and Structural Biotechnology Journal

Panelist, IRACDA 2018 Conference, Morehouse College, Atlanta, GA. July 17, 2018

Appointed Committee Member, Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Compliance Certification Team on the Educational Program Subcommittee, Morehouse College. Atlanta, GA. Spring 2017

Panelist, HealthSTEAM Innovation Expo, Morehouse College. Atlanta, GA. April 5, 2017

Participant, Westside River Rendezvous. West Atlanta Watershed Alliance (WAWA) and the Chattahoochee Riverkeeper. Atlanta, GA. (annual event since Fall 2016)

Invited Speaker, First Annual Sustainability Day, Morehouse College. Atlanta, GA. November 1, 2016

Invited Speaker, Admitted Student Day. Morehouse College. Atlanta, GA. (annual event since Spring 2016)

Co-advisor for the Morehouse College Chapter of Beta Kappa Chi (BKX) National Scientific Honor Society (appointed Spring 2016)

Guest Panelist, Delta Academy of Suburban Atlanta Chapter of Delta Sigma Theta Sorority, Inc., November 1, 2014

Invited Speaker, Initiative to Maximize Student Development Program, Emory University, Atlanta, GA, April 3, 2014

Science Fair Judge, Middle and High School Science Fair, Greenforest-McCalep Christian Academic Center, Decatur, GA, February 7, 2012

Poster/Oral Talk Judge, Dr. John H. Hopps Jr. Research Scholars Program 3<sup>rd</sup> Annual Hopps Recruitment Fair & Research Training Symposium, Morehouse College, Atlanta, GA, September 29-30, 2011

Graduate Student Participant, Cary Conference XIV 2011, "Linking Ecology and Ethics for a Changing World: Values, Philosophy, and Action", Millbrook, New York, May 10-12, 2011

Co-Organizer/Speaker, 2010 ESA Annual Meeting Field Trip: "Brownfield Blitzes: A Dialog with Inner city Pittsburgh neighborhoods Using Visual Approaches for Conserving Biodiversity, Engaging Local Communities, Sharing Knowledge, and Addressing Environmental Justice", July 31, 2010, Pittsburgh, Pennsylvania

Graduate Student Participant, 1<sup>st</sup> Ecological Society of America (ESA) Millennium Conference, "Water-Ecosystem Services, Drought, and Environmental Justice", November 9-12, 2009, Athens, Georgia

Student member Space Committee (2006-2007 – The Institute of Ecology, College of Environment and Design, University of Georgia

## PUBLICATIONS

### Peer-Reviewed

Lu, J., I. Struewing, **E.Vereen**, A.E. Kirby, K. Levy, C. Moe, and N. Ashbolt. 2016. Molecular Detection of Legionella spp. and their associations with *Mycobacterium* spp., *Pseudomonas aeruginosa* and amoeba hosts in a drinking water distribution system. *Journal of Applied Microbiology*. 120: 509-521.

**Vereen, Jr., E.**, R. Richard Lowrance, M. B. Jenkins, P. Adams, S. Rajeev, and E. K. Lipp. 2013. Landscape and seasonal factors influence *Salmonella* and *Campylobacter* prevalence in a rural mixed use watershed. *Water Research*. 47: 6075-6085.

**Vereen, Jr., E.**, R. Lowrance, D. Cole, and E. K. Lipp. 2007. Distribution and Ecology of Campylobacters in Coastal Plain Streams (Georgia, U.S.A.). *Applied and Environmental Microbiology*. 73:1395-1403.

### Other Publications

A. E. Escalante, C. Rigotto, **E. Vereen, Jr.**, M. Kinyua, M. Fernández-Delgado. Advisors: Maria Tereza Razzolini, Charles N. Haas. 2013. Case Study: Emerging & Zoonotic Pathogens. Quantitative Microbial Risk Assessment (QMRA) II Workshop São Paulo, Brazil. <http://qmrawiki.msu.edu/>

**Vereen, E.** and A. Lewitus. 2002. Environmental Factors Regulating *Microcystis* spp. Abundance and Microcystin Production in a Subdivision Freshwater-To-Low Salinity Pond in Charleston, South Carolina (Lake Edmonds). SC Department of Natural Resources, Marine Resources Division Minorities in Marine and Environmental Research (MIMES) Student Report.

## PRESENTATIONS

\* indicates an invited presentation. † indicates a published abstract. Presenter is first author unless noted otherwise.

### Invited Panelist or Workshop

Hendrickson, Triscia and **Ethell Vereen**. *Forming Collaborative Learning Communities*. Morehouse College Fall 2018 STEM Symposium. Workshop. Atlanta, GA. October 18, 2018.

Gerardo Nicole, David Katz, **Ethell Vereen**, Sinead Young. 2018. *How to be a successful postdoc*. IRACDA National Meeting 2018. Panel Discussion. Atlanta, GA. July 16, 2018.



## Oral Presentations

\***Vereen, Jr., E.** 2018. *Water and Quality of Life: It's More Than Just What You Drink*. Morehouse College Faculty Research Café Seminar Series. Morehouse College, Atlanta, GA. April 6, 2018.

\***Vereen, Jr., E.** 2017. *Culturally Relevant PanAfrican Pedagogy*. Pan-African Approaches to Teaching Geoscience Workshop. Morehouse College, Atlanta, GA. May 23-25, 2017.

**Vereen, Jr., E.**, Marque Long, and David Miller. 2017. *Water Sustainability: Conversation from the College Campus to Action in the Global Community*. 2017 Annual Conference of the National Association of African American Honors Programs (NAAHP), Atlanta, GA. November 9-12, 2017.

\***Vereen, Jr., E.** 2015. *Making Every Drop Count: Research, Education, and My Evolving Career in Water*. Department of Biological Sciences Seminar Series. Morehouse College, Atlanta, GA. October 6, 2015.

\***Vereen, Jr., E.** 2014. *Making Every Drop Count: Research, Education, and My Evolving Career in Water*. Introduction to Environmental and Sustainability Studies. Agnes Scott College, Decatur, GA. September 22, 2014.

\***Vereen, Jr., E.** 2013. *Evaluating Vulnerable Locations in the City of Atlanta, GA Drinking Water Distribution System for Microbial Intrusion and Regrowth*. Environmental Health Science Departmental Graduate Seminar Series. University of Georgia, Athens, GA. September 27, 2013.

\***Vereen, Jr., E.** 2013. *From Nature to Your Tap: Water in Atlanta*. Water Wise symposium. The Decatur Education Foundation. Decatur High School Performing Arts Center, Decatur, GA. September 23, 2013.

**Vereen, Jr., E.**, K. Levy, S. Panwhar, A. Streby, A. Kirby, C. Jackson, and C. Moe. 2013. *Evaluating Vulnerable Locations in the City of Atlanta, GA Drinking Water Distribution System for Microbial Intrusion and Regrowth using an Automated Monitoring and Sampling Device*. Georgia Water Resources Conference, Athens, Georgia, April 10-11, 2013.

**Vereen, Jr., E.**, K. Levy, S. Panwhar, J. Montes, A. Kirby, C. Jackson, and C. Moe. 2012. *Assessing microbial detection in the City of Atlanta, GA drinking water distribution system using an automated monitoring and sampling device*. Southeastern Branch Meeting of the American Society for Microbiology, Athens, Georgia, October 25-27, 2012.

**Vereen, Jr., E.**, K. Levy, S. Panwhar, J. Montes, A. Kirby, C. Jackson, and C. Moe. 2012. *Assessing Contaminant Intrusion in the City of Atlanta, GA Drinking Water Distribution System using an Automated Monitoring and Sampling Device*. 2012 Water and Health Conference: Science, Policy, and Innovation, The University of North Carolina, Chapel Hill, North Carolina, October 29 - November 2, 2012.

\* **Vereen, Jr., E.** 2012. *Exploring Salmonella and Campylobacter Incidence and Prevalence in a Mixed Use Watershed*. Joint Undergraduate Summer Internship Research Colloquium Minorities in Marine and Environmental Sciences (MIMES) Program & Medical University of South Carolina Summer Undergraduate Research Program (MUSC-SURP). Charleston, SC. August 1, 2012.

**Vereen, Jr., E.,** S. Rajeev, and E. K. Lipp. 2010. *Survey of Campylobacter species and Salmonella serotypes in the Satilla River Basin*. Science of Veterinary Medicine Research Day, The University of Georgia College of Veterinary Medicine, Athens, Georgia, October 14, 2010.

**Vereen, Jr., E.,** S. Rajeev, R. Lowrance, P. Gay, M. Jenkins, and E. K. Lipp. 2010. *Relationships between Salmonella and Campylobacter and Land-use in the Satilla River Basin*. 10<sup>th</sup> Annual Interdisciplinary Conference, The University of Georgia Graduate Student Association, Athens, Georgia, March 27, 2010.

**Vereen, Jr., E.,** S. Rajeev, R. Lowrance, P. Gay, M. Jenkins, and E. K. Lipp. 2010. *Frequency and Spatial Distribution of Salmonella in the Satilla River Basin*. Infectious Disease Departmental Retreat, The University of Georgia College of Veterinary Medicine, Athens, Georgia, February 6, 2010.

\* **Vereen, E.,** R.R. Lowrance and E.K. Lipp. 2005. *Fate and Ecology of Campylobacters in Coastal Plain Streams Georgia (U.S.A.)*. Tifton Sigma Xi Chapter Seminar, Tifton, GA.

**Vereen, E.,** R.R. Lowrance and E.K. Lipp. 2003. *Fate and ecology of Campylobacter spp. in a southeastern Georgia watershed*. Southeast and South Carolina Joint Branch Meeting of the American Society for Microbiology, Athens GA. Oral Presentation.

† **Vereen, E.,** A. Lewitus. 2002. *Relationship between nutrient conditions and microcystin in a South Carolina subdivision pond and in Microcystis aeruginosa cultures*. Fall 2002 Meeting of the Southeastern Estuarine Research Society, Conway, SC.

**Vereen, E.,** D. Akin. 1999. *Enzymatic Retting of the flax plant Linum usitatissimum*. Summer 1999 Meeting of The South Carolina Alliance for Minority Participation (SCAMP) program, Columbia, SC.

### **Poster Presentations**

Weil, C., S. Panwhar, **E. Vereen, Jr.,** A. Kirby, K. Levy, A. Streby, and C. Moe. 2013. *Spatial and Temporal Variations in Water Quality within the City of Atlanta Drinking Water Distribution System*. 2013 Water and Health Conference: Science, Policy, and Innovation, The University of North Carolina, Chapel Hill, North Carolina, October 14-18, 2013.

**Vereen, Jr., E.,** S. Dutton, and J. Powell. 2013. *Are STEM Students Ready for the Real World: When Keeping It Real, Gets You Really Prepared*. 2013 NIH Institutional Research and Academic Career Development Award (IRACDA, K12) Annual Meeting, Emory University, Atlanta, GA, June 2-4, 2013.

**Vereen, Jr., E.**, K. Levy, S. Panwhar, A. Kirby, A. Streby, C. Jackson, and C. Moe. 2013. *Evaluating Microbial Intrusion and Regrowth from Vulnerable Locations in the City of Atlanta, GA Drinking Water Distribution System using an Automated Monitoring and Sampling Device*. 2013 NIH Institutional Research and Academic Career Development Award (IRACDA, K12) Annual Meeting, Emory University, Atlanta, GA, June 2-4, 2013.

† **Vereen, Jr., E.**, R. Lowrance, M. Jenkins, P. Adams, S. Rajeev, and E. K. Lipp. 2012. *Investigating Salmonella and Campylobacter Incidence and Prevalence in a Mixed Use Watershed*. 112<sup>th</sup> General Meeting of the American Society for Microbiology, San Francisco, California, June 16- June 19, 2012.

Gaines, Michelle, **E. Vereen, Jr.** 2012. *Student/Instructor Perception of Using Clickers in a Small Classroom Setting*. 2012 NIH Institutional Research and Academic Career Development Award (IRACDA, K12) Annual Meeting, University of Pennsylvania, Philadelphia, PA, June 17 – June 19, 2012.

† **Vereen, Jr., E.**, S. Rajeev, R. Lowrance, P. Gay, M. Jenkins, and E. K. Lipp. 2010. *Frequency of Salmonella and Campylobacter Detection in the Satilla River Basin*. 95<sup>th</sup> Ecological Society of America Annual Meeting, Pittsburgh, Pennsylvania, August 1 – August 6, 2010.

† **Vereen, Jr., E.**, S. Rajeev, R. Lowrance, P. Gay, M. Jenkins, and E. K. Lipp. 2009. *Occurrence of Salmonella, Campylobacter, and Indicator Organisms in the Watershed of the Satilla River Basin*. 109<sup>th</sup> General Meeting of the American Society for Microbiology, Philadelphia, Pennsylvania, May 17 – May 21, 2009.

† Lipp, E.K., R.R. Lowrance, M. Jenkins, P. Gay, S. Rajeev, and **E. Vereen, Jr.** *Watershed Scale Transport of Salmonella, Campylobacter, and Indicator Organisms in the Satilla River Basin*. 2009. USDA-CSREES National Water Conference, St. Louis, Missouri, February 8 - February 12, 2009.

† **Vereen, Jr., E.**, S. Rajeev, R.R. Lowrance, M. Jenkins, P. Gay, and E.K. Lipp. *Watershed Scale Transport of Salmonella, Campylobacter, and Indicator Organisms in the Satilla River Basin*. 2008. USDA-CSREES National Water Conference, Reno, Nevada, February 3 - February 7, 2008.

**Vereen, E.**, R.R. Lowrance, D. Cole, and E.K. Lipp. 2007. *Seasonal and Climate Influences on Prevalence of Campylobacter spp. in the Satilla River Basin*. 2007 Biomedical and Health Sciences Institute Spring Symposium: Climate, Ecology and Infectious Diseases, Athens, GA.

† **Vereen, Jr., E.**, R.R. Lowrance, M. Jenkins, P. Gay, S. Rajeev, and E.K. Lipp. *Watershed Scale Transport of Salmonella, Campylobacter, and Indicator Organisms in the Satilla River Basin*. 2007. USDA-CSREES National Water Conference, Savannah, Georgia, January 28-February 1, 2007.

† **Vereen, E.**, R.R. Lowrance and E.K. Lipp. 2005. In vitro *Survival Study of Campylobacter jejuni in Aquatic Environments with Traditional Culture Methods and Direct Detection*. 105<sup>th</sup> General Meeting of the American Society for Microbiology, Atlanta, GA.

† Haley, B., J.C. Venton, **E. Vereen**, T.J. Onifade, K. Caspary, E.K. Lipp. 2005. *Evaluation of Enterococci and Fecal Coliform Bacteria as Indicators of Viral Pathogen Loads in Marine Recreational Waters*. 105<sup>th</sup> General Meeting of the American Society for Microbiology, Atlanta, GA.

† **Vereen, E.**, R.R. Lowrance and E.K. Lipp. 2004. *Detection and Seasonal Distribution of Campylobacter spp. in a southeastern Georgia watershed*. 104<sup>th</sup> General Meeting of the American Society for Microbiology, New Orleans, LA.

## GRANTS AND ASSISTANTSHIPS

Hendrickson, T., PI/PD, with J. Mendenhall, and **E. Vereen**. NSF Major Research Instrumentation (MRI) Grant. *Acquisition of a confocal microscope to facilitate basic science research at Morehouse College and enhance training opportunities for undergraduate STEM majors*, Pending. Potential Award: \$400,000.

**E. Vereen**, PI/PD. NSF HBCU Up Research Initiation Award (RIA). *Metagenomic Approach to Assess Water Quality and Microbial Load Variability of an Urban Watershed*, 05/01/19 – 04/31/22: \$300,000

Lipp, E.K., PI/PD, with S. Rajeev (UGA), M.B. Jenkins (USDA-ARS), R. Lowrance (USDA-ARS), P. Gay (UGA), and **E. Vereen** (UGA). U.S. Department of Agriculture National Research Initiative (NRI) Competitive Grant – (Water and Watersheds). *Watershed scale transport of Salmonella, Campylobacter and indicator organisms in the Satilla river basin*. 09/01/06 – 08/31/09. Award: \$384,097.

USDA-ARS Student Career Experience Program (SCEP), Awarded August 2003  
University of Georgia Graduate Recruitment Opportunities (GRO), Awarded August 2002

### Morehouse College Office of Title III Programs Proposals and Award

Microbial Ecology Module: Defining baseline environmental health and microbial community of an urban watershed. Award: \$25,000

Microbiology Lab Equipment. Award: \$17,000

Makerspace Modeling of Male Reproductive and Urinary System. Award: \$6,322

Winogradsky Column Integration in Microbiology Lab to Allow Students to Develop

Research Skills through an Inquiry Based Lab Approach. Award: \$21,648.20

Biology Department STEM Proposal with Dr. Jeffrey Handy as Co-PI. Award: \$24,884.99

**REFERENCES**

Karen Levy, Ph.D.  
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E-mail: [karen.levy@emory.edu](mailto:karen.levy@emory.edu)

Joann Powell, Ph.D.  
Associate Professor  
Room 4029B, Center for Cancer Research and Therapeutic Development  
Clark Atlanta University, 223 James P. Brawley Drive, SW  
Atlanta, GA 30314-4391  
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Erin K. Lipp, Ph.D.  
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R. Richard Lowrance, Ph.D.  
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USDA-ARS Southeast Watershed Research Laboratory  
PO Box 748  
2379 Rainwater Road  
Tifton, Georgia 31793-0748  
Phone: (229) 386-3894  
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Sreekumari Rajeev, Ph.D.  
Assistant Professor and Faculty Section Head, Bacteriology and Mycology sections  
UGA College of Veterinary Medicine Veterinary Diagnostic & Investigational Lab  
43 Brighton Road  
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