

**Ethell Vereen, Jr.**  
**Assistant Professor of Biology**  
**Morehouse College**  
[Ethell.Vereen@morehouse.edu](mailto:Ethell.Vereen@morehouse.edu)

Division of Science, Technology,  
 Engineering, and Mathematics (STEM)  
 830 Westview Drive, SW  
 Atlanta, GA 30314

## PERSONAL PROFILE STATEMENT

My research focuses on the scholarship of teaching and learning (SoTL), and the scholarship of discovery (basic research). My SoTL interest explores undergraduate STEM education, with an emphasis on culturally relevant pedagogy in the sciences and STEM student success. My scholarship of discovery focuses on water quality, microbial ecology, environmental health, and social justice and sustainability. To investigate and identify the influence of environmental and anthropogenic pressures on the microbial communities of urban watersheds, my work explores the microbial community composition and functions, as deduced from metagenomic data.

## EDUCATION

Emory University	Postdoctoral training	Microbial Ecology/ Science Education	2011-2014
University of Georgia	PhD	Ecology	2010
University of Georgia	MS	Environ. Health	2005
SC State University	BS	Biology	2002

## SCHOLARSHIP/RESEARCH/CREATIVE ACTIVITY

### Peer-Reviewed Publications

- Zelaya AJ, Contreras H, **Vereen E**, and AA Majewska. 2024. Culturally responsive teaching strategies in CUREs. Article 42 In: Boone E and Thuecks S, eds. *Advances in biology laboratory education*. Volume 44. Publication of the 44th Conference of the Association for Biology Laboratory Education (ABLE). DOI: <https://doi.org/10.37590/able.v44.extabs42>
- **Vereen E**, Gardner TG and Blumer LS. 2024. Techniques for Conducting the Bean Beetle Microbiome Project on Eggs. Article 66 In: Boone E and Thuecks S, eds. *Advances in biology laboratory education*. Volume 44. Publication of the 44th Conference of the Association for Biology Laboratory Education (ABLE). DOI: <https://doi.org/10.37590/able.v44.extabs66>
- Clark, T., Hamilton, O., Morris, M., & **Vereen, E.** (2023). Mission, Morals and the Metaverse: How Morehouse College is Transforming Undergraduate Education in the Sciences and Humanities with Virtual Reality. In *Ethical Considerations of Virtual Reality in the College Classroom* (pp. 270-290). Routledge. <https://doi.org/10.4324/9781003329718>
- **Vereen, E.**, McCalla, M., Fullerton, J., & Trawick, C. (2023). Undergraduate Summer Research Program in the Midst of a Pandemic: Insights From the Morehouse College Ronald E. McNair Post-Baccalaureate Achievement Program Virtual Summer Research Program. *Journal of College Science Teaching*, 52(7), 20-29. <https://doi.org/10.1080/0047231X.2023.12315874>

- Majewska, A.A. and **Vereen, E.** (2023) Using Immersive Virtual Reality in an Online Biology Course. *Journal for STEM Education Research*, 1-16. <https://doi.org/10.1007/s41979-023-00095-9>
- **Vereen, E.** (2022). Exploring environmental justice and data analytics in an environmental studies lab course. *Ecological Applications*, e2769. [doi.org/10.1002/eap.2769](https://doi.org/10.1002/eap.2769)
- Majewska, A. A., Stuart, J. D., Gray, K. M., Ryder, P. V., and **Vereen, E.** (2022). Development of a Men's Health course for first-year undergraduates using culturally responsive teaching strategies. *Health Education*. <https://doi.org/10.1108/HE-07-2021-0102>
- Van Dommelen, J., M. Hicks, K. Nolan, D. Pattison, and **E. Vereen.** (2022). *Exploring the Benefits of Online Labs for On-Campus Teaching*. Article 51 In: Boone E and Thuecks S, eds. *Advances in biology laboratory education*. Volume 42. Publication of the 42nd Conference of the Association for Biology Laboratory Education (ABLE). <https://doi.org/10.37590/able.v42.art51>
- **Vereen, E.** (2021). Exploring Environmental Justice with Data Analytics and Visualization. *Social Justice and Community Change*, QUBES Educational Resources. doi:10.25334/D0EN-0R77
- A.A. Majewska and **E. Vereen.** (2021). Fostering Student-Student Interactions in a First-Year Experience Course Taught Online during the COVID-19 Pandemic. *Journal of Microbiology and Biology Education*. [doi.org/10.1128/jmbe.v22i1.2417](https://doi.org/10.1128/jmbe.v22i1.2417)
- 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(2): 509-521. <https://doi.org/10.1111/jam.12996>
- **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.

### Refereed Presentations and Proceedings

† indicates undergraduate student listed as primary or co-presenter.

- T. Clark, O. Hamilton, M. Morris, **E. Vereen** (2021) Transforming Undergraduate Education in the Sciences and Humanities with Virtual Reality: The Case at Morehouse College (Atlanta, GA, USA), *ICER/2021 Proceedings*, p. 3467. Doi:10.21125/iceri.2021.0848
- Basham, T., Piechnik, D., Ansari-Yan, D., Boyer, M., Ekberg, M. C., Heard, M. J., Jones, A. C., Jones, S., Kovacs, J., Lannan, E., Marsteller, P., Mulcahy, M., Prescott, S., Santos, G. R., **Vereen, E.** (2021). Integrating Social Justice into your STEM Classroom: Redlining & Environmental Science. 2021 Biology and Mathematics Educators (BIOME) Institute, QUBES Educational Resources. doi:10.25334/CZ5X-A141
- Mulcahy, M., **Vereen, E.**, Ekberg, M. C., Kovacs, J., Ansari-Yan, D., Basham, T., Boyer, M., Heard, M. J., Jones, a. C., Jones, S., Lannan, E., Marsteller, P., Prescott,

- S., Santos, G. R. (2021). Integrating Social Justice into your STEM Classroom: Redlining & Health. 2021 Biology and Mathematics Educators (BIOME) Institute, QUBES Educational Resources. doi:10.25334/Y5B6-6R35
- † J. Dozier and **E. Vereen**. Environmental Equity and Social Justice: The Interdependence of Redlining and Present-Day Water Quality in Atlanta, GA. National Council of Undergraduate Research. April 2023
  - † M. Gosha, K. Bostick, and **E. Vereen**. An Intersectional Analysis on Water Quality and Socioeconomic Status in America: A Scoping Review. National Council of Undergraduate Research. April 2023
  - † C. Bass and **E. Vereen**. Microbial and Nutrient Analysis of Water Quality in a Metropolitan area of North Georgia. National Council of Undergraduate Research. April 2023
  - † J. Lottie and **E. Vereen**. Environmental inequality: Identifying sewage spills and potential inequalities by socioeconomic status. National Council of Undergraduate Research. April 2021
  - † K. White and **E. Vereen**. Characterization of Proctor Creek Watershed for Preliminary Assessment of Microbial Contaminants, Nutrient Fluxes, and Combined Sewer Overflows Impact on Urban Watershed Water Quality. National Council of Undergraduate Research. April 2021
  - † C. Jackson and **E. Vereen**. HBCU vs PWI Unemployment Study: Are Our Grads in Demand?. National Council of Undergraduate Research. April 2021

#### Other Publications

- 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

## PRESENTATIONS

### Invited Panelist or Workshop

Roberson, S., K. Gill, A. Kozik, and **E. Vereen**. 2024. Engagement through HBCUs and Societies in the U.S. Invited Panelist National Academy of Sciences Roundtable on Black Men and Black Women in Science, Engineering, and Medicine. Systems of Engagement for Black People in the Global Scientific Enterprise: A Workshop. October 3-4, 2024. Washington, DC

Zelaya AJ, Contreras H, **Vereen E**, and AA Majewska. 2023. Culturally responsive teaching strategies in CUREs. Major Workshop. 44th Conference of the Association for Biology Laboratory Education (ABLE).

Jelks, Na'Taki Osborne, Maisha Standifer, Crystal M. James, Victor M Ibeanusi, Fatemeh Shafiei, and **Ethell Vereen**. Taking Action: Advancing Conversations on Climate Change, Environmental Justice and Health Equity. Satcher Health Leadership Institute (SHLI) and the Environmental Defense Fund (EDF). SHLI Lunch and Learn webinar. August 25, 2021

Van Dommelen, Jennifer, Martin Hicks, Kathleen Nolan, Donna Pattison, and **Ethell Vereen**. Exploring the Benefits of Online Labs for On-Campus Teaching. Panel Discussion. ViABLE 2021. Association for Biology Laboratory Education (ABLE) virtual conference. June 17, 18, 24, and 25, 2021.

David A. Thomas (Morehouse College President), Kendrick Brown (Morehouse College Provost), **Ethell Vereen (Moderator)**, Lycurgus Muldrow, John K. Haynes, Lance Shipman-Young, Lawrence Blumer, Wallace Sharif, Ulrica Wilson, Juana Mendenhall, Jeffrey Handy, and Triscia Hendrickson. The National Academies of Sciences, Engineering, and Medicine Morehouse Virtual Town Hall: Successes in STEM Education, Research, and Workforce Preparedness. Atlanta, GA. April 27, 2021

Friedrich Kenny, Jennifer Hurst-Kennedy, **Ethell Vereen**. Teaching Diverse and non-traditional students. Panel Discussion. Emory University 20<sup>th</sup> Anniversary of FIRST Postdoctoral Fellowship. Atlanta, GA. February 29, 2020

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

\* indicates an invited presentation. Presenter is first author unless noted otherwise.

\* **Vereen, Jr., E.** 2024. *Teaching Climate Justice and Civic Engagement Across the STEM Curriculum: Exploring EnvironmentATL Justice and Data Analytics*. AAAS 2024 Annual Meeting. Invited Speaker. Denver, Colorado. February 2024.

- \* **Vereen, Jr., E.** 2023. *Creating Culturally Responsive Science and STEM Classrooms*. MIT OpenCourseWare and Morehouse College Teaching and Learning Series. Invited Speaker. Virtual Speaker Series. November 2023.
- \* **Vereen, Jr., E.** 2023. *Impacts of Environmental Public Health Hazards on the Black Community*. Environmental Health Grand Rounds Speaker Series. Invited Speaker. National Environmental Health Association (NEHA). April 2023.
- \* **Vereen, Jr., E.** 2022. *Water Quality and Environmental Health through a Social Justice Lens*. Agnes Scott College Environmental Health Invited Lecture Series. Atlanta, GA. October 2022.
- \* **Vereen, Jr., E.** 2022. *Health Equity in Action Roundtable: Water Crisis and Water Quality through an Environmental Justice Lens*. Satcher Health Leadership Institute Environmental Health and Climate Justice Leadership Academy. Atlanta, GA. September 2022.
- Vereen, Jr., E.** 2021. *Formative Peer Review of Teaching: Knowledge and Attitudes of Faculty at Morehouse College Toward Peer Instructional Assessment*. Carnegie Fellows Scholarship of Teaching and Learning Series. Atlanta, GA. May 2021.
- \* **Vereen, Jr., E.** 2021. *Data Visualization and Visual Exploration in Virtual Reality*. W.E.B. DuBois Data Science Symposium AUC Data Science Initiative. Atlanta, GA. April 2021.
- \* **Vereen, Jr., E.** 2021. *What is Water: Research, Teaching and Knowing Beyond the Water Cycle*. Our Voices: Diversity in Environmental Health Sciences Seminar Series Rollins School of Public Health, Emory University. Atlanta, GA. March 2021.
- \* **Vereen, Jr., E.** 2021. *Life in Flowing Water*. Odum School of Ecology, University of Georgia Graduate Student Symposia Keynote Speaker. Athens, GA. February 2021.
- \* **Vereen, Jr., E.** 2021. *Design (and integration) of a microbiome undergraduate research project for training and teaching microbiology and data analysis using real-world context and data*. Biological Big Data in Research and Teaching Spelman-Broad Institute (MIT) Workshop. Atlanta, GA. January 2021.
- \* **Vereen, Jr., E.** 2020. *Real Talk: Be Like Water- a Personal Strategy for Flow and Fluidity*. National Science Foundation (NSF) Delaware State University HBCU-UP TEAL Program Speaker Series. Dover, DE. November 2020.
- \* **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**

† indicates undergraduate student listed as primary or co-presenter. †† indicates a published abstract. Presenter is first author unless noted otherwise.

**Vereen, Jr., E.**, T. Gardner, and L. Blumer. 2023. *Techniques for Conducting the Bean Beetle Microbiome Project on Eggs*. 2023 Annual ABLE Conference, University of California, San Diego, La Jolla, CA, June 27-30, 2023.

†Gosha, Myles, Bostick, Kathleen, and **E. Vereen**. 2022. *An Intersectional Analysis on Water Quality and Socioeconomic Status in America: A Scoping Review*. 2022 Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS). Anaheim, CA. November 9-12, 2022. Sophomore Presentation Awardee Winner

†Bass, Christopher, and **E. Vereen**. 2022. *Microbial and Nutrient Analysis of Water Quality in a Metropolitan Area of North Georgia*. 2022 Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS). Anaheim, CA. November 9-12, 2022. Senior Presentation Awardee Winner

†Lottie, J., W. Sharif, and **E. Vereen**. 2021. *Environmental Awareness and Water Pollution – A Scoping Literature Review*. 2021 Morehouse College McNair Scholars Research Symposium. Atlanta, GA. July 2021. Second Place Award Winner

†Lottie, J., L. Njoya, R. Odom, W. Sharif, and **E. Vereen**. 2021. *Environmental inequality: Identifying sewage spills and potential inequalities by socioeconomic status*. 2021 SAEOPP McNair/SSS Scholars Virtual Conference. June 23-25, 2021. First Place Award Winner

†Whyte, K., and **E. Vereen**. 2020. Characterization of Proctor Creek Watershed for Preliminary Assessment of Microbial Contaminants, Nutrient Fluxes, and Combined Sewer Overflows Impact on Urban Watershed Water Quality. Annual Biomedical Research Conference for Minority Students (ABRCMS) 2020: The Virtual Experience. November 9-13, 2020.

†Lottie, J., L. Njoya, R. Odom, W. Sharif, and **E. Vereen**. 2020. *Environmental inequality: Identifying sewage spills and potential inequalities by socioeconomic status*. Annual Biomedical Research Conference for Minority Students (ABRCMS) 2020: The Virtual Experience. November 9-13, 2020.

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

**E. Vereen**, PI/PD and Triscia Hendrickson (Co-PI). United States Department of Education Congressionally Funded Community Project. Grant Number P116Z220097. *The Morehouse College Environmental Justice and Sustainability Program*. Project Period: 09/01/22 – 08/31/25. Award: \$1,415,000

Konstantinos (Kostas) T. Konstantinidis (PI), Janet K. Hatt (Co-PI), and **Ethell Vereen (Co-PI)**. EPA STAR Grant Number R840203. *A comprehensive methodology to track genetically recoded organisms and assess their impacts on freshwater microbial communities*. Project Period: 07/01/21 – 06/30/24. Award: \$759,980

**E. Vereen**, PI/PD. NSF HBCU Up Research Initiation Award (RIA) Number 1900701. *Metagenomic Approach to Assess Water Quality and Microbial Load Variability of an Urban Watershed*. Project Period: 05/01/19 – 04/31/22. Award: \$362,865

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*. Project Period: 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**

Creating a 21<sup>st</sup> Century Center of Common Equipment for Biology Science Education. Award: \$25,000

Exploring Connections Between Water, Justice, and Health with Spatial Mapping. Award: \$6,347

Watershed Investigation Using Enviroscapes Models and Microbial Ecology Methods. Award: \$25,000

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

### **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, Populations, Community, and Biosphere (BIO 114), †Co-Instructor, Populations, Community, and Biosphere Lab (BIO 114L), †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), Environmental Studies Lab for majors (BIO 497L)

#### **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

**PROFESSIONAL CONTRIBUTIONS AND SERVICE***PROFESSIONAL MEMBERSHIPS AND RECENT AWARDS*

2022, Inducted to the Omicron Delta Kappa National Leadership Honor Society  
2021 Keystroke Fellow, The Center for the Advancement of STEM Leadership (CASL)  
2021 Carnegie Fellow, Morehouse Faculty Development, Teaching and Advising Center  
1,000 Inspiring Black Scientists in America, The Community of Scholars, January 2021  
2019-2020 Vulcan “Teaching in Excellence” Award, Morehouse College  
2018, Inducted to the National Society of Leadership and Success  
Social Justice and Community Change: Building CURES with  
Community Social Justice Impact Faculty Mentoring Network (FMN)  
National Science Teachers Association (NSTA)  
National Research Mentoring Network (NRMN)  
National Society of Leadership and Success  
American Society for Microbiology (ASM)  
Ecological Society of America (ESA)  
Association for Biology Laboratory Education (ABLE)

*NATIONAL SERVICE*

Appointed Member, National Academies of Sciences, Engineering, and Medicine’s US  
National Committee for the International Union of Biological Sciences (USNC/IUBS)  
Member, NSF NEON Community Engagement Technical Working Group  
Board of Directors, Environmental Leadership Program  
Board of Directors, South Carolina State University Foundation  
Reviewer, NSF Panels (GEO, DEB, and HBCU-UP Directorates)  
Reviewer, Scientific Journals (WIREs Water, Journal of Applied Microbiology, Science of the  
Total Environment, Computation and Structural Biotechnology)

*MOREHOUSE COLLEGE STEM DIVISION (Formerly Division of Life Sciences) SERVICE*

Division of Life Science Curriculum Committee  
Division of Life Science Taskforce for Online Education  
Chair, Biology Department Seminar Series

*MOREHOUSE COLLEGE INSTITUTIONAL SERVICE*

Research Coordinator, Morehouse College McNair Program  
Member, Morehouse College Faculty Council  
Member, Morehouse College General Education Committee  
Member, Morehouse College Library and Media Committee  
Appointed Southern Association of Colleges and Schools Commission on Colleges  
(SACSCOC) Compliance Certification Team on the Educational Program Subcommittee,  
Morehouse College. 2017

## **MENTORED STUDENTS**

### Postdoctoral Fellows

- Dr. Hemali Oza, Fellowship in Research and Science Teaching (FIRST) Institutional Research and Academic Career Development Award (IRACDA) Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2024, Morehouse College.
- Dr. Jada Hoyle-Gardner, Fellowship in Research and Science Teaching (FIRST) Institutional Research and Academic Career Development Award (IRACDA) Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2023, Morehouse College.
- Dr. Anna Zelaya, Fellowship in Research and Science Teaching (FIRST) Institutional Research and Academic Career Development Award (IRACDA) Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2021, Morehouse College.
- Dr. Jennifer Gresham, FIRST IRACDA Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2021, Morehouse College
- Dr. Ania Majewska, FIRST IRACDA Postdoctoral Fellowship Program at Emory University; Teaching Mentor, 2020, Morehouse College
- Dr. Johnasha Stuart, FIRST 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

### Postbaccalaureate Students

- Stuart Phipps, Postbaccalaureate student research trainee, 2021- July 2022, Vereen Research Institute, Morehouse College, Supported by NSF HBCU Up RIA Award #1900701 supplement #2137609, \$42,500
- Jabari Lottie, Postbaccalaureate student research trainee, August - December 2022, Vereen Research Institute, Morehouse College, Supported by NSF HBCU Up RIA Award #1900701 supplement #2137609
- Emmanuel Lozada, Post baccalaureate research trainee, 2012-2013, Preparatory Research Experience Post baccalaureate Program (PREP), Emory University

### Undergraduate Students

- Andres Resto, Undergraduate research trainee, Fall 2024, Independent Research Course, Biology Department at Morehouse College
- E. Aaron Walker, Undergraduate research trainee, Fall 2024, Independent Research Course, Biology Department at Morehouse College
- E. Aaron Walker, Undergraduate research trainee, Summer 2024, Environmental Justice and Sustainability Program (EJSP)
- E. Aaron Walker, Undergraduate research trainee, Fall 2023, Independent Research Course, Biology Department at Morehouse College
- Elijah Gilchrist, Undergraduate research trainee, Summer 2023, Environmental Justice and Sustainability Program (EJSP)

- Jeffery Jenkins, Undergraduate research trainee, Summer 2023, Environmental Justice and Sustainability Program (EJSP)
- Myles Gosha, Undergraduate research trainee, Fall 2022, Vivien Thomas Scholars Initiative (VTSI), previously Vereen Research Institute unpaid research trainee
- John Dinnall, Undergraduate research trainee, Summer 2022, Vivien Thomas Scholars Initiative (VTSI)
- Jalen Dozier, Undergraduate research trainee, Summer 2022, Vivien Thomas Scholars Initiative (VTSI)
- Christopher Bass, Undergraduate research trainee, 2022, Vereen Research Institute, Morehouse College, Supported by NSF HBCU Up RIA Award #1900701
- Kathleen Bostick, Undergraduate research trainee, 2022, Vereen Research Institute, Spelman College, Supported by NSF HBCU Up RIA Award #1900701
- Keyon Whyte, Undergraduate research trainee, 2019-2020, Vereen Research Institute, Morehouse College, Supported by NSF HBCU Up RIA Award #1900701
- Lauren Williams, Undergraduate research trainee, 2019-2020, Vereen Research Institute, Spelman College, Supported by NSF HBCU Up RIA Award #1900701
- Marque Long, Undergraduate research trainee, 2017-2019, Vereen Research Institute, Morehouse College
- Miles Johnson, Undergraduate research trainee, Spring 2021, Physics Senior Research Project, Morehouse College
- Madeleine Buckner-McCurdy, Undergraduate research trainee, Spring 2019, Public Health Practicum, Spelman College
- Daneisha Bowles, Undergraduate research trainee, Fall 2016, Public Health Practicum, Clark Atlanta University

#### Other

- Jabari Lottie, Morehouse College McNair Summer Research Intern, Summer, 2021, 2022
- Tyler Jay, Morehouse College McNair Summer Research Intern, Summer 2022
- Daniel White, Summer Undergraduate Research Intern, Wingate College, Summer 2021
- DeYante Prince, Summer Undergraduate Research Intern, Morehouse College, Summer 2021
- Omar-Shariff Roberts, Summer Undergraduate Research Intern, Morehouse College, Summer 2021
- I'reyon Wright, Summer Undergraduate Research Intern, Spelman College, Summer 2021
- Leila N'joya, Summer Undergraduate Research Intern, Spelman College, Summer 2021
- Oauniece Heard, Summer Undergraduate Research Intern, Spelman College, Summer 2021